| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40001* | *1664* | *EMCS Periodic H/K* | *1* | *1* | *10* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0311***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *1* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0A00***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *10* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 16 | K1001 | D Prim PW Consum | V | A | | | | | |
| **CURVE** | Eng. Value [A] = ((Binary Value * 20) / 4095) - 10 | | | | | | | | | | |
| 18 | 0 | 16 | K1002 | D P.S. Temp #1 | V | degC | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * (-0.1268)) + 345.74 | | | | | | | | | | |
| 20 | 0 | 16 | K1003 | D P.S. Temp #2 | V | degC | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * (-0.1268)) + 345.74 | | | | | | | | | | |
| 22 | 0 | 16 | K1004 | D +5 V PW Supply | V | V | | | | | |
| **CURVE** | Eng. Value [V] = (((Binary Value * 20) / 4095) - 10) * 2 | | | | | | | | | | |
| 24 | 0 | 16 | K1005 | D DBU Power +6V | V | V | | | | | |
| **CURVE** | Eng. Value [V] = (((Binary Value * 20) / 4095) - 10) * 2 | | | | | | | | | | |
| 26 | 0 | 16 | K1006 | D +15V PW Supply | V | V | | | | | |
| **CURVE** | Eng. Value [V] = (((Binary Value * 20) / 4095) - 10) * 2 | | | | | | | | | | |
| 28 | 0 | 16 | K1007 | D -15V PW Supply | V | V | | | | | |
| **CURVE** | Eng. Value [V] = (((Binary Value * 20) / 4095) - 10) * 2 | | | | | | | | | | |
| 30 | 0 | 16 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

32 0 8 K1008 G EMCS Oper Mode V n/a

| RAW | MEANING |
|---|---|
| 0 | Safe StandBy |
| 1 | Idle |
| 2 | Prime |
| 3 | Fast |
| 4 | Offset |
| 5 | CCD Diagnos. |
| 6 | Extraheating |
| 16 | InFlightTest |

33 0 8 K1009 G EMCS Status V n/a

| RAW | MEANING |
|---|---|
| 0 | Valid Mode |
| 1 | EnteringMode |
| 2 | Leaving Mode |
| 255 | NotValidMode |

34 0 8 FIX Fix bit pattern F n/a 0

**CURVE**

35 0 2 FIX Fix bit pattern F n/a 0

**CURVE**

35 2 1 K1010 D Door HOP Stat. V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

35 3 1 K1011 D Ven Val HOP St V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

35 4 1 K1012 D FW Coil 1 Stat V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

35 5 1 K1013 D FW Coil 2 Stat V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

35 6 1 K1014 D Ann Heater St. V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

35 7 1 K1015 D Shr Heater St. V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

36 0 2 FIX Fix bit pattern F n/a 0

**CURVE**

36 2 1 K1016 D Door HOP LCP V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

36 3 1 K1017 D VenVal HOP LCP V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

36 4 1 K1018 D FW Coil 1 LCP V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

36 5 1 K1019 D FW Coil 2 LCP V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |

1 ON
36 6 1 K1020 D Ann Heater LCP V n/a
**RAW MEANING**
0 OFF
1 ON
36 7 1 K1021 D Shr Heater LCP V n/a
**RAW MEANING**
0 OFF
1 ON
37 0 2 FIX Fix bit pattern F n/a 0
**CURVE**

37 2 1 K1022 D Door HOP CLS V n/a
**RAW MEANING**
0 OFF
1 ON
37 3 1 K1023 D VenVal HOP CLS V n/a
**RAW MEANING**
0 OFF
1 ON
37 4 1 K1024 D FW Coil 1 CLS V n/a
**RAW MEANING**
0 OFF
1 ON
37 5 1 K1025 D FW Coil 2 CLS V n/a
**RAW MEANING**
0 OFF
1 ON
37 6 1 K1026 D Ann Heater CLS V n/a
**RAW MEANING**
0 OFF
1 ON
37 7 1 K1027 D Shr Heater CLS V n/a
**RAW MEANING**
0 OFF
1 ON
38 0 8 K1028 D HBR1 Ch. Conf. V n/a
**RAW MEANING**
0 Disabled
1 Imag. Proc.
2 Imag.N.Proc.
3 Imag.R.Proc.
4 Imag.R.N.Pr.
5 EDU Thresh.
6 Tim. Proces.
7 Tim.N.Proce.
8 Tim.C.Proce.
9 Tim.C.N.Pro.
10 Transparent
39 0 8 K1029 D HBR2 Ch. Conf. V n/a
**RAW MEANING**
0 Disabled
1 Imag. Proc.
2 Imag.N.Proc.
3 Imag.R.Proc.
4 Imag.R.N.Pr.
5 EDU Thresh.
6 Tim. Proces.
7 Tim.N.Proce.
8 Tim.C.Proce.
9 Tim.C.N.Pro.
10 Transparent
40 0 8 K1030 D HBR3 Ch. Conf. V n/a
**RAW MEANING**
0 Disabled

| | |
|---|---|
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 41 | 0 | 8 | K1031 | D HBR4 Ch. Conf. | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 42 | 0 | 8 | K1032 | D HBR5 Ch. Conf. | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 43 | 0 | 8 | K1033 | D HBR6 Ch. Conf. | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 44 | 0 | 8 | K1034 | D HBR7 Ch. Conf. | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 45 | 0 | 8 | K1035 | D HBR8 Ch. Conf. | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |

1 Imag. Proc.
2 Imag.N.Proc.
3 Imag.R.Proc.
4 Imag.R.N.Pr.
5 EDU Thresh.
6 Tim. Proces.
7 Tim.N.Proce.
8 Tim.C.Proce.
9 Tim.C.N.Pro.
10 Transparent

| | | | | | | |
|---|---|---|---|---|---|---|
| 46 | 0 | 8 | K1036 | D HBR 1 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 47 | 0 | 8 | K1037 | D HBR 2 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 48 | 0 | 8 | K1038 | D HBR 3 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 49 | 0 | 8 | K1039 | D HBR 4 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 50 | 0 | 8 | K1040 | D HBR 5 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 51 | 0 | 8 | K1041 | D HBR 6 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 52 | 0 | 8 | K1042 | D HBR 7 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 53 | 0 | 8 | K1043 | D HBR 8 Buff Occ | V | n/a |
| **CURVE** | | | | | | |
| 54 | 0 | 48 | K1573 | C Cou OBT Res Ti | V | sec |
| **CURVE** | | | | | | |
| 60 | 0 | 16 | K1045 | D LBR I/F Status | V | n/a |

| **RAW** | **MEANING** |
|---|---|
| 0 | I/F OK |
| 65280 | I/F busy |

| | | | | | | |
|---|---|---|---|---|---|---|
| 62 | 0 | 16 | K1046 | DLast Com FW Pos | V | n/a |
| **CURVE** | | | | | | |
| 64 | 0 | 16 | K1047 | D HBR1 Disc Even | V | n/a |
| **CURVE** | | | | | | |
| 66 | 0 | 16 | K1048 | D HBR2 Disc Even | V | n/a |
| **CURVE** | | | | | | |
| 68 | 0 | 16 | K1049 | D HBR3 Disc Even | V | n/a |
| **CURVE** | | | | | | |
| 70 | 0 | 16 | K1050 | D HBR4 Disc Even | V | n/a |
| **CURVE** | | | | | | |
| 72 | 0 | 16 | K1051 | D HBR5 Disc Even | V | n/a |
| **CURVE** | | | | | | |
| 74 | 0 | 16 | K1052 | D HBR6 Disc Even | V | n/a |
| **CURVE** | | | | | | |
| 76 | 0 | 16 | K1053 | D HBR7 Disc Even | V | n/a |
| **CURVE** | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 78 | 0 | 16 | K1054 | D HBR8 Disc Even | V | n/a | |
| **CURVE** | | | | | | | |
| 80 | 0 | 16 | K1055 | D HBR1 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 82 | 0 | 16 | K1056 | D HBR2 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 84 | 0 | 16 | K1057 | D HBR3 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 86 | 0 | 16 | K1058 | D HBR4 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 88 | 0 | 16 | K1059 | D HBR5 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 90 | 0 | 16 | K1060 | D HBR6 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 92 | 0 | 16 | K1061 | D HBR7 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 94 | 0 | 16 | K1062 | D HBR8 Disc Fram | V | n/a | |
| **CURVE** | | | | | | | |
| 96 | 0 | 48 | K1574 | D Cmode Start Ti | V | sec | |
| **CURVE** | | | | | | | |
| 102 | 0 | 48 | K1575 | D Cmode Stop Tim | V | sec | |
| **CURVE** | | | | | | | |
| 108 | 0 | 8 | K1065 | D Door HOP ArmST | V | n/a | |
| **RAW MEANING** | | | | | | | |
| 0 Not Armed | | | | | | | |
| 1 Armed | | | | | | | |
| 109 | 0 | 8 | K1066 | D VenValHOPArmST | V | n/a | |
| **RAW MEANING** | | | | | | | |
| 0 Not Armed | | | | | | | |
| 1 Armed | | | | | | | |
| 110 | 0 | 16 | K1067 | C H/K Ref Status | V | n/a | |
| **RAW MEANING** | | | | | | | |
| 0 New EMCR H/K | | | | | | | |
| 65535 Old EMCR H/K | | | | | | | |
| 112 | 0 | 16 | K1044 | CTimAutResPreVal | V | sec | |
| **CURVE** | | | | | | | |
| 114 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 118 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 122 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 126 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 130 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 134 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 138 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 142 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 146 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 150 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 154 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 158 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 162 | 0 | 16 | K1068 | C EDU 0 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 164 | 0 | 16 | K1069 | C EDU 1 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 166 | 0 | 16 | K1070 | C EDU 2 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 168 | 0 | 16 | K1071 | C EDU 3 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 170 | 0 | 16 | K1072 | C EDU 4 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 172 | 0 | 16 | K1073 | C EDU 5 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 174 | 0 | 16 | K1074 | C EDU 6 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 176 | 0 | 16 | K1075 | C EDU 7 Status | V | n/a | |
| **CURVE** | | | | | | | |
| 178 | 0 | 8 | K1076 | C EMAE -6 V Line | V | V | |
| **CURVE** | Eng. Value [V] = (Binary Value - 128) * 0.082 | | | | | | |
| 179 | 0 | 8 | K1077 | C EMAE +6 V Line | V | V | |
| **CURVE** | Eng. Value [V] = (Binary Value - 128) * 0.082 | | | | | | |
| 180 | 0 | 8 | K1078 | C EMAE -13V Line | V | V | |
| **CURVE** | Eng. Value [V] = (Binary Value - 128) * 0.195 | | | | | | |
| 181 | 0 | 8 | K1079 | C EMAE +13V Line | V | V | |
| **CURVE** | Eng. Value [V] = (Binary Value - 128) * 0.195 | | | | | | |
| 182 | 0 | 8 | K1080 | C EMAE +28V Line | V | V | |
| **CURVE** | Eng. Value [V] = (Binary Value - 128) * 0.414 | | | | | | |

183 0 8 K1081 C EMAE +18V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.260

184 0 8 K1082 C Signal Ground V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.039

185 0 8 K1083 C EMAE +32V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.466

186 0 8 K1084 V EMVC Temp. #1 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

187 0 8 K1085 C EMCR Temp. #1 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

188 0 8 K1086 C EMCR +5 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

189 0 8 K1087 V EMVC Temp. #2 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

190 0 8 K1088 C EMCR -13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.205

191 0 8 K1089 C EMCR +13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.205

192 0 8 FIX Fix bit pattern F n/a 0
**CURVE**

193 0 8 K1090 C EMCR Temp. #2 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

194 0 8 K1091 CEMAECmEchoErCnt V n/a
**CURVE**

195 0 8 K1092 CEMAELsWrEchoCom V n/a
**RAW MEANING**

196 0 8 K1093 E CCD 1 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

197 0 8 K1094 E CCD 1 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

198 0 8 K1095 E CCD 1 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

199 0 8 K1096 E CCD 1 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

200 0 8 K1097 E CCD 1 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

201 0 8 K1098 E CCD 1 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

202 0 8 K1099 E CCD 1 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

203 0 8 K1100 E CCD 1 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

204 0 8 K1101 E CCD 1 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

205 0 8 K1102 E CCD 1 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

206 0 8 K1103 E CCD 1 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

207 0 8 K1104 E CCD 1 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

208 0 8 K1105 E CCD 1 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

209 0 8 K1106 E CCD 1 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

210 0 8 K1107 E CCD 1 RESET 2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

211 0 8 K1108 E CCD 1 RESET 1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

212 0 1 K1109 A AnCh1/2 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

212 1 1 K1110 AAnCh1/2InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

212 2 1 K1111 AAnCh1/2InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

212 3 1 K1112 AAnCh1/2InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

212 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

212 5 3 K1113 AAnCh1/2IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

213 0 8 K1116 AAnCh1/2GaNumSet V n/a
**CURVE**

214 0 7 K1117 AAnCh1/2LoadAddL V n/a
**CURVE**

214 7 1 K1586 AAnCh1/2DataBySe V n/a
**RAW MEANING**
0 Low
1 High

215 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 215 | 6 | 2 | K1118 | AAnCh1/2LoadAddM | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 0 | 1 | K1119 | A Seq PC FW Mode | V | n/a | |

**RAW MEANING**

0 Load
1 Run

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 1 | 1 | K1120 | A SeqPCFWDrvInbC | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 2 | 1 | K1121 | A SeqPCFWDrvInbB | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 3 | 1 | K1122 | A SeqPCFWDrvInbA | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 4 | 2 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 6 | 1 | K1123 | ASeqPCWhDrvDirec | V | n/a | |

**RAW MEANING**

0 Forward
1 Backward

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 216 | 7 | 1 | K1124 | A SeqPCWhMovTrig | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 217 | 0 | 8 | K1125 | AAnCh1/2LoadData | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 218 | 0 | 7 | K1126 | A SeqFW LoadAddL | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 218 | 7 | 1 | K1590 | A SeqFW DataBySe | V | n/a | |

**RAW MEANING**

0 Low
1 High

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 219 | 0 | 6 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 219 | 6 | 2 | K1127 | A SeqFW LoadAddM | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 220 | 0 | 8 | K1128 | A FWActStepCntM | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 221 | 0 | 8 | K1129 | A SeqFW LoadData | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 222 | 0 | 1 | K1130 | A AnCh8 PWStatus | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 222 | 1 | 1 | K1131 | A AnCh7 PWStatus | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 222 | 2 | 1 | K1132 | A AnCh6 PWStatus | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 222 | 3 | 1 | K1133 | A AnCh5 PWStatus | V | n/a | |

**RAW MEANING**

0 OFF
1 ON

222 4 1 K1134 A AnCh4 PWStatus V n/a

**RAW MEANING**
0 OFF
1 ON

222 5 1 K1135 A AnCh3 PWStatus V n/a

**RAW MEANING**
0 OFF
1 ON

222 6 1 K1136 A AnCh2 PWStatus V n/a

**RAW MEANING**
0 OFF
1 ON

222 7 1 K1137 A AnCh1 PWStatus V n/a

**RAW MEANING**
0 OFF
1 ON

223 0 8 K1138 A FWActStepCntL V n/a

**CURVE**

224 0 2 FIX Fix bit pattern F n/a 0

**CURVE**

224 2 1 K1139 H PreAmp14 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

224 3 1 K1140 H PreAmp13 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

224 4 1 K1141 H PreAmp12 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

224 5 1 K1142 H PreAmp11 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

224 6 1 K1143 H PreAmp10 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

224 7 1 K1144 H PreAmp09 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

225 0 1 K1145 H PreAmp01 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

225 1 1 K1146 H PreAmp02 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

225 2 1 K1147 H PreAmp03 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

225 3 1 K1148 H PreAmp04 PW ST V n/a

**RAW MEANING**
0 OFF
1 ON

225 4 1 K1149 H PreAmp05 PW ST V n/a
**RAW MEANING**
0 OFF
1 ON
225 5 1 K1150 H PreAmp06 PW ST V n/a
**RAW MEANING**
0 OFF
1 ON
225 6 1 K1151 H PreAmp07 PW ST V n/a
**RAW MEANING**
0 OFF
1 ON
225 7 1 K1152 H PreAmp08 PW ST V n/a
**RAW MEANING**
0 OFF
1 ON
226 0 1 K1153 ASeq7/8ReadOutSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 1 1 K1154 ASeq5/6ReadOutSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 2 1 K1155 ASeq3/4ReadOutSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 3 1 K1156 ASeq1/2ReadOutSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 4 1 K1157 ASeq7/8FrmTranSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 5 1 K1158 ASeq5/6FrmTranSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 6 1 K1159 ASeq3/4FrmTranSy V n/a
**RAW MEANING**
0 Not Active
1 Active
226 7 1 K1160 ASeq1/2FrmTranSy V n/a
**RAW MEANING**
0 Not Active
1 Active
227 0 4 FIX Fix bit pattern F n/a 0
**CURVE**

227 4 1 K1161 AFPTCPwStAnHeReD V n/a
**RAW MEANING**
0 OFF
1 ON
227 5 1 K1162 AFPTCPwStVacuSen V n/a
**RAW MEANING**
0 OFF
1 ON
227 6 1 K1163 AFPTCPwStTemConR V n/a
**RAW MEANING**
0 OFF
1 ON
227 7 1 K1164 AFPTCPwStTemConN V n/a
**RAW MEANING**

0 OFF
1 ON

228 0 8 K1165 E CCD 2 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

229 0 8 K1166 E CCD 2 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

230 0 8 K1167 E CCD 2 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

231 0 8 K1168 E CCD 2 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

232 0 8 K1169 E CCD 2 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

233 0 8 K1170 E CCD 2 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

234 0 8 K1171 E CCD 2 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

235 0 8 K1172 E CCD 2 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

236 0 8 K1173 E CCD 2 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

237 0 8 K1174 E CCD 2 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

238 0 8 K1175 E CCD 2 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

239 0 8 K1176 E CCD 2 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

240 0 8 K1177 E CCD 2 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

241 0 8 K1178 E CCD 2 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

242 0 8 K1179 E CCD2 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

243 0 8 K1180 E CCD2 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

244 0 8 K1181 E CCD 5 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

245 0 8 K1182 E CCD 5 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

246 0 8 K1183 E CCD 5 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

247 0 8 K1184 E CCD 5 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

248 0 8 K1185 E CCD 5 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

249 0 8 K1186 E CCD 5 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

250 0 8 K1187 E CCD 5 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

251 0 8 K1188 E CCD 5 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

252 0 8 K1189 E CCD 5 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

253 0 8 K1190 E CCD 5 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

254 0 8 K1191 E CCD 5 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

255 0 8 K1192 E CCD 5 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

256 0 8 K1193 E CCD 5 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

257 0 8 K1194 E CCD 5 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

258 0 8 K1195 E CCD 5 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

259 0 8 K1196 E CCD 5 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

260 0 1 K1197 A AnCh3/4 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
260 1 1 K1198 AAnCh3/4InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
260 2 1 K1199 AAnCh3/4InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
260 3 1 K1200 AAnCh3/4InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

260 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

260 5 3 K1201 AAnCh3/4IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

261 0 8 K1204 AAnCh3/4GaNumSet V n/a
**CURVE**

262 0 7 K1205 AAnCh3/4LoadAddL V n/a
**CURVE**

262 7 1 K1587 AAnCh3/4DataBySe V n/a
**RAW MEANING**
0 Low
1 High

263 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

263 6 2 K1206 AAnCh3/4LoadAddM V n/a
**RAW MEANING**

264 0 8 K1207 AFPNomThCoTemSet V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.869) - 168

265 0 8 K1208 AAnCh3/4LoadData V n/a
**CURVE**

266 0 8 K1209 E CCD 4 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

267 0 8 K1210 AFPRedThCoTemSet V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.869) - 168

268 0 8 K1211 E CCD 4 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

269 0 8 K1212 E CCD 4 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

270 0 8 K1213 E CCD 4 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

271 0 8 K1214 E CCD 4 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

272 0 8 K1215 E CCD 4 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

273 0 8 K1216 E CCD 4 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

274 0 8 K1217 E CCD 4 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

275 0 8 K1218 E CCD 4 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

276 0 8 K1219 E CCD 4 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

277 0 8 K1220 E CCD 4 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

278 0 8 K1221 E CCD 4 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

279 0 8 K1222 E CCD 4 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

280 0 8 K1223 E CCD 4 RESET 1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

281 0 8 K1224 E CCD 4 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

282 0 8 K1225 E CCD 7 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

283 0 8 K1226 E CCD 4 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

284 0 8 K1227 E CCD 7 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

285 0 8 K1228 E CCD 7 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

286 0 8 K1229 E CCD 7 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

287 0 8 K1230 E CCD 7 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

288 0 8 K1231 E CCD 7 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

289 0 8 K1232 E CCD 7 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

290 0 8 K1233 E CCD 7 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

291 0 8 K1234 E CCD 7 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

292 0 8 K1235 E CCD 7 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

293 0 8 K1236 E CCD 7 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

294 0 8 K1237 E CCD 7 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

295 0 8 K1238 E CCD 7 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

296 0 8 K1239 E CCD 7 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

297 0 8 K1240 E CCD 7 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

298 0 8 K1241 AAnCh5/6GaNumSet V n/a
**CURVE**

299 0 8 K1242 E CCD 7 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

300 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

300 6 2 K1243 AAnCh5/6LoadAddM V n/a
**RAW MEANING**

301 0 1 K1244 A AnCh5/6 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

301 1 1 K1245 AAnCh5/6InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

301 2 1 K1246 AAnCh5/6InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

301 3 1 K1247 AAnCh5/6InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

301 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

301 5 3 K1248 AAnCh5/6IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

302 0 8 K1251 AAnCh5/6LoadData V n/a
**CURVE**

303 0 7 K1252 AAnCh5/6LoadAddL V n/a
**CURVE**

303 7 1 K1588 AAnCh5/6DataBySe V n/a
**RAW MEANING**
0 Low
1 High
304 0 8 K1253 H FPlanNorRanTem V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.357) - 159

305 0 1 K1254 H FW NominalStop V n/a
**RAW MEANING**
0 In Position
1 Out Position
305 1 1 K1255 HDoorBellowState V n/a
**RAW MEANING**
0 Retracted
1 NotRetracted
305 2 1 K1256 H Door Open uSw V n/a
**RAW MEANING**
0 Open
1 Closed
305 3 3 K1257 H FW Position V n/a
**RAW MEANING**
0 Open
1 Filter D
2 Filter C
3 Filter B
4 Filter A
5 Closed
6 IllegalValue
7 Not Valid CS
305 6 1 K1258 H FW Redund Stop V n/a
**RAW MEANING**
0 In Position
1 Out Position
305 7 1 FIX Fix bit pattern F n/a 0
**CURVE**

306 0 8 K1260 AFPRedThCoTemMon V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.1) - 170.1

307 0 8 K1261 H Vacuum Monitor V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

308 0 8 K1262 H Secon Rad Temp V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.689) - 225.9

309 0 8 K1263 A Rad. Mon. FET1 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

310 0 8 K1264 A Rad. Mon. FET3 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

311 0 8 K1265 HDoorBellowPress V Bar
**CURVE** Eng. Value [Bar] = ((Binary Value * 39.06)/1000)-2

312 0 8 K1266 E CCD 3 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

313 0 8 K1267 E CCD 3 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

314 0 8 K1268 E CCD 3 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

315 0 8 K1269 E CCD 3 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

316 0 8 K1270 E CCD 3 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

317 0 8 K1271 E CCD 3 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

318 0 8 K1272 E CCD 3 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

319 0 8 K1273 E CCD 3 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

320 0 8 K1274 E CCD 3 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

321 0 8 K1275 E CCD 3 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

322 0 8 K1276 E CCD 3 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

323 0 8 K1277 E CCD 3 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

324 0 8 K1278 E CCD 3 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

325 0 8 K1279 E CCD 3 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

326 0 8 K1280 E CCD 3 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

327 0 8 K1281 E CCD 3 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

328 0 8 K1282 E CCD 6 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

329 0 8 K1283 E CCD 6 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

330 0 8 K1284 E CCD 6 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

331 0 8 K1285 E CCD 6 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

332 0 8 K1286 E CCD 6 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

333 0 8 K1287 E CCD 6 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

334 0 8 K1288 E CCD 6 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

335 0 8 K1289 E CCD 6 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

336 0 8 K1290 E CCD 6 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

337 0 8 K1291 E CCD 6 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

338 0 8 K1292 E CCD 6 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

339 0 8 K1293 E CCD 6 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

340 0 8 K1294 E CCD 6 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

341 0 8 K1295 E CCD 6 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

342 0 8 K1296 E CCD 6 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

343 0 8 K1297 E CCD 6 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

344 0 1 K1298 A AnCh7/8 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

344 1 1 K1299 AAnCh7/8InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

344 2 1 K1300 AAnCh7/8InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

344 3 1 K1301 AAnCh7/8InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

344 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

344 5 3 K1302 AAnCh7/8IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

345 0 8 K1305 AAnCh7/8GaNumSet V n/a
**CURVE**

346 0 7 K1306 AAnCh7/8LoadAddL V n/a
**CURVE**

346 7 1 K1589 AAnCh7/8DataBySe V n/a
**RAW MEANING**
0 Low
1 High
347 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

347 6 2 K1307 AAnCh7/8LoadAddM V n/a
**RAW MEANING**

348 0 8 K1308 HFPlaneExtRanTem V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

349 0 8 K1309 AAnCh7/8LoadData V n/a
**CURVE**

350 0 8 K1310 H FW Motor Temp V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.953) - 273

351 0 8 K1311 A AE Electr Temp V degC
**CURVE** Eng. Value [°C] = 89.794 - (Binary Value * 1.2723) + (Binary Value^2 * 6.9E-3) - (Binary Value^3 * 1.7E10-5)

352 0 8 K1312 AFPNomThCoTemMo V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.1) - 170.1

353 0 8 K1313 A Rad. Mon. FET2 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

354 0 8 K1314 A Rad. Mon. FET4 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

355 0 8 K1315 H CH Electr Temp V degC
**CURVE** Eng. Value [°C] = 58.08 - (Raw Value * 2.2888) + (Raw Value^2 * 2.9E-2) - (Raw Value^3 * 1.7E-4) + (Raw Value^4 *

356 0 1 K1592 C AnCh3/4 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
356 1 1 K1593 CAnCh3/4InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
356 2 1 K1594 CAnCh3/4InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
356 3 1 K1595 CAnCh3/4InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
356 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

356 5 3 K1596 CAnCh3/4IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0

3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

357 0 1 K1599 C AnCh1/2 SeqRam V n/a

**RAW MEANING**
0 Load
1 Run

357 1 1 K1600 CAnCh1/2InbCtrlC V n/a

**RAW MEANING**
0 OFF
1 ON

357 2 1 K1601 CAnCh1/2InbCtrlB V n/a

**RAW MEANING**
0 OFF
1 ON

357 3 1 K1602 CAnCh1/2InbCtrlA V n/a

**RAW MEANING**
0 OFF
1 ON

357 4 1 FIX Fix bit pattern F n/a 0

**CURVE**

357 5 3 K1603 CAnCh1/2IntSimul V n/a

**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

358 0 1 K1606 C AnCh7/8 SeqRam V n/a

**RAW MEANING**
0 Load
1 Run

358 1 1 K1607 CAnCh7/8InbCtrlC V n/a

**RAW MEANING**
0 OFF
1 ON

358 2 1 K1608 CAnCh7/8InbCtrlB V n/a

**RAW MEANING**
0 OFF
1 ON

358 3 1 K1609 CAnCh7/8InbCtrlA V n/a

**RAW MEANING**
0 OFF
1 ON

358 4 1 FIX Fix bit pattern F n/a 0

**CURVE**

358 5 3 K1610 CAnCh7/8IntSimul V n/a

**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

359 0 1 K1613 C AnCh5/6 SeqRam V n/a

**RAW MEANING**

0 Load
1 Run

359 1 1 K1614 CAnCh5/6InbCtrlC V n/a

**RAW MEANING**
0 OFF
1 ON

359 2 1 K1615 CAnCh5/6InbCtrlB V n/a

**RAW MEANING**
0 OFF
1 ON

359 3 1 K1616 CAnCh5/6InbCtrlA V n/a

**RAW MEANING**
0 OFF
1 ON

359 4 1 FIX Fix bit pattern F n/a 0

**CURVE**

359 5 3 K1617 CAnCh5/6IntSimul V n/a

**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

360 0 8 FIX Fix bit pattern F n/a 0

**CURVE**

361 0 32 FIX Fix bit pattern F n/a

**CURVE**

365 0 1 K1316 CFWExpNomStopSen V n/a

**RAW MEANING**
0 In Position
1 Out Position

365 1 2 FIX Fix bit pattern F n/a 0

**CURVE**

365 3 3 K1624 CFWExAbsPosition V n/a

**RAW MEANING**
0 Open
1 Filter D
2 Filter C
3 Filter B
4 Filter A
5 Closed
6 IllegalValue
7 Not Valid CS

365 6 1 K1625 CFWExpRedStopSen V n/a

**RAW MEANING**
0 In Position
1 Out Position

365 7 1 FIX Fix bit pattern F n/a 0

**CURVE**

366 0 16 K1317 CFWActStepNumRef V n/a

**CURVE**

368 0 4 K1318 CGroup1SeqNumber V n/a

**CURVE**

368 4 12 K1319 C Group1 IntTime V sec

**CURVE** Eng value [s] = Binary value * 0.1

370 0 4 K1320 C Gr1 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

370 4 12 K1321 C Group1X0Posit. V n/a
**CURVE**

372 0 4 K1322 C Gr1 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

372 4 12 K1323 C Group1Y0Posit. V n/a
**CURVE**

374 0 4 K1324 CGroup1ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

374 4 12 K1325 C Group1 X Size V n/a
**CURVE**

376 0 4 K1326 CGroup1ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

376 4 12 K1327 C Group1 Y Size V n/a
**CURVE**

378 0 4 K1328 CGroup2SeqNumber V n/a
**CURVE**

378 4 12 K1329 C Group2 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

380 0 4 K1330 C Gr2 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

380 4 12 K1331 C Group2X0Posit. V n/a
**CURVE**

382 0 4 K1332 C Gr2 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

382 4 12 K1333 C Group2Y0Posit. V n/a
**CURVE**

384 0 4 K1334 CGroup2ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

384 4 12 K1335 C Group2 X Size V n/a
**CURVE**

386 0 4 K1336 CGroup2ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

386 4 12 K1337 C Group2 Y Size V n/a
**CURVE**

388 0 4 K1338 CGroup3SeqNumber V n/a
**CURVE**

388 4 12 K1339 C Group3 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

390 0 4 K1340 C Gr3 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

390 4 12 K1341 C Group3X0Posit. V n/a
**CURVE**

392 0 4 K1342 C Gr3 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

392 4 12 K1343 C Group3Y0Posit. V n/a
**CURVE**

394 0 4 K1344 CGroup3ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

394 4 12 K1345 C Group3 X Size V n/a
**CURVE**

396 0 4 K1346 CGroup3ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

396 4 12 K1347 C Group3 Y Size V n/a
**CURVE**

398 0 4 K1348 CGroup4SeqNumber V n/a
**CURVE**

398 4 12 K1349 C Group4 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

400 0 4 K1350 C Gr4 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

400 4 12 K1351 C Group4X0Posit. V n/a
**CURVE**

402 0 4 K1352 C Gr4 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

402 4 12 K1353 C Group4Y0Posit. V n/a
**CURVE**

404 0 4 K1354 CGroup4ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

404 4 12 K1355 C Group4 X Size V n/a
**CURVE**

406 0 4 K1356 CGroup4ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

406 4 12 K1357 C Group4 Y Size V n/a
**CURVE**

408 0 2 K1358 CEDU0OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

408 2 2 K1359 CEDU0ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

408 4 3 K1360 CEDU0Node0TabOff V n/a
**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 408 | 7 | 3 | K1361 | CEDU0Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 409 | 2 | 3 | K1362 | CEDU0TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 409 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 410 | 0 | 2 | K1363 | CEDU1OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 410 | 2 | 2 | K1364 | CEDU1ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 410 | 4 | 3 | K1365 | CEDU1Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 410 | 7 | 3 | K1366 | CEDU1Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 411 | 2 | 3 | K1367 | CEDU1TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 411 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 412 | 0 | 2 | K1368 | CEDU2OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 412 | 2 | 2 | K1369 | CEDU2ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 412 | 4 | 3 | K1370 | CEDU2Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 412 | 7 | 3 | K1371 | CEDU2Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 413 | 2 | 3 | K1372 | CEDU2TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 413 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 414 | 0 | 2 | K1373 | CEDU3OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 414 | 2 | 2 | K1374 | CEDU3ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |

3 Image

414 4 3 K1375 CEDU3Node0TabOff V n/a
**RAW MEANING**

414 7 3 K1376 CEDU3Node1TabOff V n/a
**RAW MEANING**

415 2 3 K1377 CEDU3TabPattMask V n/a
**RAW MEANING**

415 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

416 0 2 K1378 CEDU4OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

416 2 2 K1379 CEDU4ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

416 4 3 K1380 CEDU4Node0TabOff V n/a
**RAW MEANING**

416 7 3 K1381 CEDU4Node1TabOff V n/a
**RAW MEANING**

417 2 3 K1382 CEDU4TabPattMask V n/a
**RAW MEANING**

417 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

418 0 2 K1383 CEDU5OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

418 2 2 K1384 CEDU5ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

418 4 3 K1385 CEDU5Node0TabOff V n/a
**RAW MEANING**

418 7 3 K1386 CEDU5Node1TabOff V n/a
**RAW MEANING**

419 2 3 K1387 CEDU5TabPattMask V n/a
**RAW MEANING**

419 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

420 0 2 K1388 CEDU6OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

420 2 2 K1389 CEDU6ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

420 4 3 K1390 CEDU6Node0TabOff V n/a
**RAW MEANING**

420 7 3 K1391 CEDU6Node1TabOff V n/a
**RAW MEANING**

421 2 3 K1392 CEDU6TabPattMask V n/a
**RAW MEANING**

421 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

422 0 2 K1393 CEDU7OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

422 2 2 K1394 CEDU7ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

422 4 3 K1395 CEDU7Node0TabOff V n/a
**RAW MEANING**

422 7 3 K1396 CEDU7Node1TabOff V n/a
**RAW MEANING**

423 2 3 K1397 CEDU7TabPattMask V n/a
**RAW MEANING**

423 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

424 0 16 K1398 C EDU0Node0Thres V n/a
**CURVE**

426 0 16 K1399 C EDU0Node1Thres V n/a
**CURVE**

428 0 16 K1400 C EDU1Node0Thres V n/a
**CURVE**

430 0 16 K1401 C EDU1Node1Thres V n/a
**CURVE**

432 0 16 K1402 C EDU2Node0Thres V n/a
**CURVE**

434 0 16 K1403 C EDU2Node1Thres V n/a
**CURVE**

436 0 16 K1404 C EDU3Node0Thres V n/a
**CURVE**

438 0 16 K1405 C EDU3Node1Thres V n/a
**CURVE**

440 0 16 K1406 C EDU4Node0Thres V n/a
**CURVE**

442 0 16 K1407 C EDU4Node1Thres V n/a
**CURVE**

444 0 16 K1408 C EDU5Node0Thres V n/a
**CURVE**

446 0 16 K1409 C EDU5Node1Thres V n/a
**CURVE**

448 0 16 K1410 C EDU6Node0Thres V n/a
**CURVE**

450 0 16 K1411 C EDU6Node1Thres V n/a
**CURVE**

452 0 16 K1412 C EDU7Node0Thres V n/a
**CURVE**

454 0 16 K1413 C EDU7Node1Thres V n/a
**CURVE**

456 0 4 K1414 C Selected EDU V n/a
**CURVE**

456 4 12 K1415 CTestImageHighEn V n/a
**CURVE**

458 0 1 K1416 C TestConfigType V n/a
**RAW MEANING**
0 Loaded Image
1 Built Image

458 1 3 K1417 CTstConfigPatter V n/a
**RAW MEANING**

458 4 12 K1418 C TestImageLowEn V n/a
**CURVE**

460 0 1 K1419 C AnnDriveStatus V n/a
**RAW MEANING**
0 OFF
1 ON

460 1 2 K1420 C FW OpConfMotor V n/a
**RAW MEANING**
0 Both ON
1 Nominal ON
2 Redundant ON

460 3 1 K1421 C FWOpConfRotDir V n/a
**RAW MEANING**
0 Forward
1 Backward

460 4 1 K1422 CFWOpConfRotMode V n/a
**RAW MEANING**
0 Normal
1 Step

460 5 11 K1423 CFWOpConfReqPosS V n/a
**CURVE**

462 0 8 K1424 CAnn.Min.Tem.Set V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

463 0 8 K1425 CAnn.Max.Tem.Set V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

464 0 3 FIX Fix bit pattern F n/a 0
**CURVE**

464 3 1 K1426 CFWStatusTimeOut V n/a
**RAW MEANING**
0 NoTimeoutErr
1 TimeoutError

464 4 1 K1427 C FWStatusPosErr V n/a
**RAW MEANING**
0 In Position
1 Out Position

464 5 11 K1428 CFWStatusEMReqSt V n/a
**CURVE**

466 0 8 K1429 C Rej DH Cm Cnt V n/a
**CURVE**

467 0 8 K1430 C Last Ac DH Com V n/a
**CURVE**

468 0 8 K1431 C EDU Cm OK Cnt V n/a
**CURVE**

469 0 8 K1432 C EDU Cm Rec Cnt V n/a
**CURVE**

470 0 8 K1433 C EDU Cm Rej Cnt V n/a
**CURVE**

471 0 8 K1434 C EDUTabLoaOKCnt V n/a
**CURVE**

472 0 8 K1435 CEDUTabLoaRecCnt V n/a
**CURVE**

473 0 8 K1436 CEDUTabLoaRejCnt V n/a
**CURVE**

474 0 8 K1437 C FIFOEDUCmRej16 V n/a
**CURVE**

475 0 8 K1438 C FIFOEDUCmRej15 V n/a
**CURVE**

476 0 8 K1439 C FIFOEDUCmRej14 V n/a
**CURVE**

477 0 8 K1440 C FIFOEDUCmRej13 V n/a
**CURVE**

478 0 8 K1441 C FIFOEDUCmRej12 V n/a
**CURVE**

479 0 8 K1442 C FIFOEDUCmRej11 V n/a
**CURVE**

480 0 8 K1443 C FIFOEDUCmRej10 V n/a
**CURVE**

481 0 8 K1444 C FIFOEDUCmRej9 V n/a
**CURVE**

| | | | | | | |
|---|---|---|---|---|---|---|
| 482 | 0 | 8 | K1445 | C FIFOEDUCmRej8 | V | n/a |
| **CURVE** | | | | | | |
| 483 | 0 | 8 | K1446 | C FIFOEDUCmRej7 | V | n/a |
| **CURVE** | | | | | | |
| 484 | 0 | 8 | K1447 | C FIFOEDUCmRej6 | V | n/a |
| **CURVE** | | | | | | |
| 485 | 0 | 8 | K1448 | C FIFOEDUCmRej5 | V | n/a |
| **CURVE** | | | | | | |
| 486 | 0 | 8 | K1449 | C FIFOEDUCmRej4 | V | n/a |
| **CURVE** | | | | | | |
| 487 | 0 | 8 | K1450 | C FIFOEDUCmRej3 | V | n/a |
| **CURVE** | | | | | | |
| 488 | 0 | 8 | K1451 | C FIFOEDUCmRej2 | V | n/a |
| **CURVE** | | | | | | |
| 489 | 0 | 8 | K1452 | C FIFOEDUCmRej1 | V | n/a |
| **CURVE** | | | | | | |
| 490 | 0 | 8 | K1453 | C EMAE Cm OK Cnt | V | n/a |
| **CURVE** | | | | | | |
| 491 | 0 | 8 | K1454 | CEMAE Cm Rec Cnt | V | n/a |
| **CURVE** | | | | | | |
| 492 | 0 | 8 | K1455 | CEMAE Cm Rej Cnt | V | n/a |
| **CURVE** | | | | | | |
| 493 | 0 | 8 | K1456 | CEMAESeqLoaOKCnt | V | n/a |
| **CURVE** | | | | | | |
| 494 | 0 | 8 | K1457 | CEMAESeqLdRecCnt | V | n/a |
| **CURVE** | | | | | | |
| 495 | 0 | 8 | K1458 | CEMAESeqLdRejCnt | V | n/a |
| **CURVE** | | | | | | |
| 496 | 0 | 8 | K1459 | CFIFOEMAECmRej16 | V | n/a |
| **CURVE** | | | | | | |
| 497 | 0 | 8 | K1460 | CFIFOEMAECmRej15 | V | n/a |
| **CURVE** | | | | | | |
| 498 | 0 | 8 | K1461 | CFIFOEMAECmRej14 | V | n/a |
| **CURVE** | | | | | | |
| 499 | 0 | 8 | K1462 | CFIFOEMAECmRej13 | V | n/a |
| **CURVE** | | | | | | |
| 500 | 0 | 8 | K1463 | CFIFOEMAECmRej12 | V | n/a |
| **CURVE** | | | | | | |
| 501 | 0 | 8 | K1464 | CFIFOEMAECmRej11 | V | n/a |
| **CURVE** | | | | | | |
| 502 | 0 | 8 | K1465 | CFIFOEMAECmRej10 | V | n/a |
| **CURVE** | | | | | | |

503 0 8 K1466 CFIFOEMAECmRej9 V n/a
**CURVE**

504 0 8 K1467 CFIFOEMAECmRej8 V n/a
**CURVE**

505 0 8 K1468 CFIFOEMAECmRej7 V n/a
**CURVE**

506 0 8 K1469 CFIFOEMAECmRej6 V n/a
**CURVE**

507 0 8 K1470 CFIFOEMAECmRej5 V n/a
**CURVE**

508 0 8 K1471 CFIFOEMAECmRej4 V n/a
**CURVE**

509 0 8 K1472 CFIFOEMAECmRej3 V n/a
**CURVE**

510 0 8 K1473 CFIFOEMAECmRej2 V n/a
**CURVE**

511 0 8 K1474 CFIFOEMAECmRej1 V n/a
**CURVE**

512 0 8 K1475 C BootS/Wversion V n/a
**CURVE**

513 0 8 K1476 C RAM SW version V n/a
**CURVE**

514 0 1 K1477 C PW ON Test RAM V n/a
**RAW MEANING**
0 Failed
1 Passed

514 1 1 K1478 CPWONTestROMBoot V n/a
**RAW MEANING**
0 Failed
1 Passed

514 2 1 K1479 CPWONTestROMProg V n/a
**RAW MEANING**
0 Failed
1 Passed

514 3 1 K1480 CPWONTestRAMProg V n/a
**RAW MEANING**
0 Failed
1 Passed

514 4 4 FIX Fix bit pattern F n/a 0
**CURVE**

515 0 1 K1628 C Group 4 EITF V n/a
**RAW MEANING**
0 Not Occured
1 Occured

515 1 1 K1627 C Group 3 EITF V n/a
**RAW MEANING**
0 Not Occured
1 Occured

515 2 1 K1626 C Group 2 EITF V n/a
**RAW MEANING**
0 Not Occured
1 Occured

| | | | | | | |
|---|---|---|---|---|---|---|
| 515 | 3 | 1 | K1481 | C Group 1 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 515 | 4 | 4 | K1482 | C Operating Mode | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Initializat. |
| 1 | Stand-By |
| 2 | Observation |
| 3 | Test |
| 4 | Annealing |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40002* | *1664* | *Succ. Command Accep.* | *3* | *1* | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0331***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|

CURVE

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40003* | *1664* | *UnsComAc-IllegalAPID* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *0* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0000***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *0* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40004* | *1664* | *UnsComEx-Parameters* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *130* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***82//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *130* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40005* | *1664* | *Initialization Log* | *4* | *1* | *0* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0341***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0000***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *0* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 14 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 17 | 6 | 1 | K1694 | MasInReEDACcheck | V | n/a | | | | | |
| **RAW** | **MEANING** | | | | | | | | | | |
| 0 | OK | | | | | | | | | | |
| 1 | Not OK | | | | | | | | | | |
| 17 | 7 | 1 | K1695 | MasterInitRepBIT | V | n/a | | | | | |
| **RAW** | **MEANING** | | | | | | | | | | |
| 0 | OK | | | | | | | | | | |
| 1 | Not OK | | | | | | | | | | |
| 18 | 0 | 16 | K1696 | MasInRepSPROMCRC | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 20 | 0 | 16 | K1697 | MasIniRepPROCcrc | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 22 | 0 | 16 | K1698 | MasIniRepRAMrslt | V | n/a | | | | | |
| **RAW** | **MEANING** | | | | | | | | | | |
| 0 | OK | | | | | | | | | | |
| 1 | Not OK | | | | | | | | | | |
| 24 | 0 | 16 | K1699 | MasInReFaultPGnm | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 26 | 0 | 16 | K1700 | MasInReFaultPGof | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

28 0 16 K1701 MasInitRepRAMcrc V n/a
**CURVE**

30 0 14 FIX Fix bit pattern F n/a 0
**CURVE**

31 6 1 K1702 SciInReEDACcheck V n/a
**RAW MEANING**
0 OK
1 Not OK

31 7 1 K1703 SciInitReportBIT V n/a
**RAW MEANING**
0 OK
1 Not OK

32 0 16 K1704 SciInitRepSPROM V n/a
**CURVE**

34 0 16 K1705 SciInitRepRAMcrc V n/a
**CURVE**

36 0 16 K1706 LoadResidPerProc V n/a
**RAW MEANING**
0 OK
1 Not OK

38 0 16 K1707 ThermControlFlag V n/a
**RAW MEANING**
0 OK
1 Not OK

40 0 16 K1708 UnloadInitpr1ssb V n/a
**RAW MEANING**
0 OK
1 Not OK

42 0 16 K1710 EMCR HK DataFlag V n/a
**RAW MEANING**
0 OK
1 Not OK

44 0 16 K1068 C EDU 0 Status V n/a
**CURVE**

46 0 16 K1069 C EDU 1 Status V n/a
**CURVE**

48 0 16 K1070 C EDU 2 Status V n/a
**CURVE**

50 0 16 K1071 C EDU 3 Status V n/a
**CURVE**

52 0 16 K1072 C EDU 4 Status V n/a
**CURVE**

54 0 16 K1073 C EDU 5 Status V n/a
**CURVE**

56 0 16 K1074 C EDU 6 Status V n/a
**CURVE**

58 0 16 K1075 C EDU 7 Status V n/a
**CURVE**

60 0 8 K1076 C EMAE -6 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

61 0 8 K1077 C EMAE +6 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

62 0 8 K1078 C EMAE -13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.195

63 0 8 K1079 C EMAE +13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.195

64 0 8 K1080 C EMAE +28V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.414

65 0 8 K1081 C EMAE +18V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.260

66 0 8 K1082 C Signal Ground V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.039

67 0 8 K1083 C EMAE +32V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.466

68 0 8 K1084 V EMVC Temp. #1 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

69 0 8 K1085 C EMCR Temp. #1 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

70 0 8 K1086 C EMCR +5 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

71 0 8 K1087 V EMVC Temp. #2 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

72 0 8 K1088 C EMCR -13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.205

73 0 8 K1089 C EMCR +13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.205

74 0 8 FIX Fix bit pattern F n/a 0
**CURVE**

75 0 8 K1090 C EMCR Temp. #2 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

76 0 8 K1091 CEMAECmEchoErCnt V n/a
**CURVE**

77 0 8 K1092 CEMAELsWrEchoCom V n/a
**RAW MEANING**

78 0 8 K1093 E CCD 1 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

79 0 8 K1094 E CCD 1 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

80 0 8 K1095 E CCD 1 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

81 0 8 K1096 E CCD 1 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

82 0 8 K1097 E CCD 1 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

83 0 8 K1098 E CCD 1 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

84 0 8 K1099 E CCD 1 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

85 0 8 K1100 E CCD 1 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

86 0 8 K1101 E CCD 1 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

87 0 8 K1102 E CCD 1 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

88 0 8 K1103 E CCD 1 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

89 0 8 K1104 E CCD 1 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

90 0 8 K1105 E CCD 1 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

91 0 8 K1106 E CCD 1 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

92 0 8 K1107 E CCD 1 RESET 2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

93 0 8 K1108 E CCD 1 RESET 1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

94 0 1 K1109 A AnCh1/2 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

94 1 1 K1110 AAnCh1/2InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

94 2 1 K1111 AAnCh1/2InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

94 3 1 K1112 AAnCh1/2InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

94 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

94 5 3 K1113 AAnCh1/2IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | Simulator_/2 | | | | | | |
| 6 | Simulator_/4 | | | | | | |
| 7 | Simulator_/8 | | | | | | |
| 95 | 0 | 8 | K1116 | AAnCh1/2GaNumSet | V | n/a | |
| **CURVE** | | | | | | | |
| 96 | 0 | 7 | K1117 | AAnCh1/2LoadAddL | V | n/a | |
| **CURVE** | | | | | | | |
| 96 | 7 | 1 | K1586 | AAnCh1/2DataBySe | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | Low | | | | | | |
| 1 | High | | | | | | |
| 97 | 0 | 6 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 97 | 6 | 2 | K1118 | AAnCh1/2LoadAddM | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 98 | 0 | 1 | K1119 | A Seq PC FW Mode | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | Load | | | | | | |
| 1 | Run | | | | | | |
| 98 | 1 | 1 | K1120 | A SeqPCFWDrvInbC | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | OFF | | | | | | |
| 1 | ON | | | | | | |
| 98 | 2 | 1 | K1121 | A SeqPCFWDrvInbB | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | OFF | | | | | | |
| 1 | ON | | | | | | |
| 98 | 3 | 1 | K1122 | A SeqPCFWDrvInbA | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | OFF | | | | | | |
| 1 | ON | | | | | | |
| 98 | 4 | 2 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 98 | 6 | 1 | K1123 | ASeqPCWhDrvDirec | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | Forward | | | | | | |
| 1 | Backward | | | | | | |
| 98 | 7 | 1 | K1124 | A SeqPCWhMovTrig | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 99 | 0 | 8 | K1125 | AAnCh1/2LoadData | V | n/a | |
| **CURVE** | | | | | | | |
| 100 | 0 | 7 | K1126 | A SeqFW LoadAddL | V | n/a | |
| **CURVE** | | | | | | | |
| 100 | 7 | 1 | K1590 | A SeqFW DataBySe | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 0 | Low | | | | | | |
| 1 | High | | | | | | |
| 101 | 0 | 6 | FIX | Fix bit pattern | F | n/a | 0 |
| **CURVE** | | | | | | | |
| 101 | 6 | 2 | K1127 | A SeqFW LoadAddM | V | n/a | |
| **RAW** | **MEANING** | | | | | | |
| 102 | 0 | 8 | K1128 | A FWActStepCntM | V | n/a | |
| **CURVE** | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 103 | 0 | 8 | K1129 | A SeqFW LoadData | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 0 | 1 | K1130 | A AnCh8 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 1 | 1 | K1131 | A AnCh7 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 2 | 1 | K1132 | A AnCh6 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 3 | 1 | K1133 | A AnCh5 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 4 | 1 | K1134 | A AnCh4 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 5 | 1 | K1135 | A AnCh3 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 6 | 1 | K1136 | A AnCh2 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 7 | 1 | K1137 | A AnCh1 PWStatus | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 105 | 0 | 8 | K1138 | A FWActStepCntL | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 0 | 2 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 2 | 1 | K1139 | H PreAmp14 PW ST | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 3 | 1 | K1140 | H PreAmp13 PW ST | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 4 | 1 | K1141 | H PreAmp12 PW ST | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 5 | 1 | K1142 | H PreAmp11 PW ST | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 6 | 1 | K1143 | H PreAmp10 PW ST | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 7 | 1 | K1144 | H PreAmp09 PW ST | V | n/a | |

**RAW MEANING**
0 OFF
1 ON

107 0 1 K1145 H PreAmp01 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 1 1 K1146 H PreAmp02 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 2 1 K1147 H PreAmp03 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 3 1 K1148 H PreAmp04 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 4 1 K1149 H PreAmp05 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 5 1 K1150 H PreAmp06 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 6 1 K1151 H PreAmp07 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 7 1 K1152 H PreAmp08 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

108 0 1 K1153 ASeq7/8ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 1 1 K1154 ASeq5/6ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 2 1 K1155 ASeq3/4ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 3 1 K1156 ASeq1/2ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 4 1 K1157 ASeq7/8FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 5 1 K1158 ASeq5/6FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 6 1 K1159 ASeq3/4FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 7 1 K1160 ASeq1/2FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

109 0 4 FIX Fix bit pattern F n/a 0
**CURVE**

109 4 1 K1161 AFPTCPwStAnHeReD V n/a
**RAW MEANING**
0 OFF
1 ON

109 5 1 K1162 AFPTCPwStVacuSen V n/a
**RAW MEANING**
0 OFF
1 ON

109 6 1 K1163 AFPTCPwStTemConR V n/a
**RAW MEANING**
0 OFF
1 ON

109 7 1 K1164 AFPTCPwStTemConN V n/a
**RAW MEANING**
0 OFF
1 ON

110 0 8 K1165 E CCD 2 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

111 0 8 K1166 E CCD 2 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

112 0 8 K1167 E CCD 2 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

113 0 8 K1168 E CCD 2 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

114 0 8 K1169 E CCD 2 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

115 0 8 K1170 E CCD 2 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

116 0 8 K1171 E CCD 2 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

117 0 8 K1172 E CCD 2 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

118 0 8 K1173 E CCD 2 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

119 0 8 K1174 E CCD 2 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

120 0 8 K1175 E CCD 2 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

121 0 8 K1176 E CCD 2 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

122 0 8 K1177 E CCD 2 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

123 0 8 K1178 E CCD 2 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

124 0 8 K1179 E CCD2 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

125 0 8 K1180 E CCD2 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

126 0 8 K1181 E CCD 5 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

127 0 8 K1182 E CCD 5 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

128 0 8 K1183 E CCD 5 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

129 0 8 K1184 E CCD 5 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

130 0 8 K1185 E CCD 5 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

131 0 8 K1186 E CCD 5 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

132 0 8 K1187 E CCD 5 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

133 0 8 K1188 E CCD 5 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

134 0 8 K1189 E CCD 5 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

135 0 8 K1190 E CCD 5 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

136 0 8 K1191 E CCD 5 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

137 0 8 K1192 E CCD 5 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

138 0 8 K1193 E CCD 5 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

139 0 8 K1194 E CCD 5 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

140 0 8 K1195 E CCD 5 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

141 0 8 K1196 E CCD 5 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

142 0 1 K1197 A AnCh3/4 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
142 1 1 K1198 AAnCh3/4InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
142 2 1 K1199 AAnCh3/4InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
142 3 1 K1200 AAnCh3/4InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
142 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

142 5 3 K1201 AAnCh3/4IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
143 0 8 K1204 AAnCh3/4GaNumSet V n/a
**CURVE**

144 0 7 K1205 AAnCh3/4LoadAddL V n/a
**CURVE**

144 7 1 K1587 AAnCh3/4DataBySe V n/a
**RAW MEANING**
0 Low
1 High
145 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

145 6 2 K1206 AAnCh3/4LoadAddM V n/a
**RAW MEANING**

146 0 8 K1207 AFPNomThCoTemSet V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.869) - 168

147 0 8 K1208 AAnCh3/4LoadData V n/a
**CURVE**

148 0 8 K1209 E CCD 4 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

149 0 8 K1210 AFPRedThCoTemSet V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.869) - 168

150 0 8 K1211 E CCD 4 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

151 0 8 K1212 E CCD 4 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

152 0 8 K1213 E CCD 4 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

153 0 8 K1214 E CCD 4 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

154 0 8 K1215 E CCD 4 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

155 0 8 K1216 E CCD 4 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

156 0 8 K1217 E CCD 4 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

157 0 8 K1218 E CCD 4 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

158 0 8 K1219 E CCD 4 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

159 0 8 K1220 E CCD 4 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

160 0 8 K1221 E CCD 4 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

161 0 8 K1222 E CCD 4 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

162 0 8 K1223 E CCD 4 RESET 1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

163 0 8 K1224 E CCD 4 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

164 0 8 K1225 E CCD 7 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

165 0 8 K1226 E CCD 4 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

166 0 8 K1227 E CCD 7 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

167 0 8 K1228 E CCD 7 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

168 0 8 K1229 E CCD 7 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

169 0 8 K1230 E CCD 7 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

170 0 8 K1231 E CCD 7 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

171 0 8 K1232 E CCD 7 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

172 0 8 K1233 E CCD 7 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

173 0 8 K1234 E CCD 7 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

174 0 8 K1235 E CCD 7 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

175 0 8 K1236 E CCD 7 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

176 0 8 K1237 E CCD 7 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

177 0 8 K1238 E CCD 7 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

178 0 8 K1239 E CCD 7 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

179 0 8 K1240 E CCD 7 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

180 0 8 K1241 AAnCh5/6GaNumSet V n/a
**CURVE**

181 0 8 K1242 E CCD 7 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

182 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

182 6 2 K1243 AAnCh5/6LoadAddM V n/a
**RAW MEANING**

183 0 1 K1244 A AnCh5/6 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

183 1 1 K1245 AAnCh5/6InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

183 2 1 K1246 AAnCh5/6InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

183 3 1 K1247 AAnCh5/6InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

183 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

183 5 3 K1248 AAnCh5/6IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
184 0 8 K1251 AAnCh5/6LoadData V n/a
**CURVE**

185 0 7 K1252 AAnCh5/6LoadAddL V n/a
**CURVE**

185 7 1 K1588 AAnCh5/6DataBySe V n/a
**RAW MEANING**
0 Low
1 High
186 0 8 K1253 H FPlanNorRanTem V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.357) - 159

187 0 1 K1254 H FW NominalStop V n/a
**RAW MEANING**
0 In Position
1 Out Position
187 1 1 K1255 HDoorBellowState V n/a
**RAW MEANING**
0 Retracted
1 NotRetracted
187 2 1 K1256 H Door Open uSw V n/a
**RAW MEANING**
0 Open
1 Closed
187 3 3 K1257 H FW Position V n/a
**RAW MEANING**
0 Open
1 Filter D
2 Filter C
3 Filter B
4 Filter A
5 Closed
6 IllegalValue
7 Not Valid CS
187 6 1 K1258 H FW Redund Stop V n/a
**RAW MEANING**
0 In Position
1 Out Position
187 7 1 FIX Fix bit pattern F n/a 0
**CURVE**

188 0 8 K1260 AFPRedThCoTemMon V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.1) - 170.1

189 0 8 K1261 H Vacuum Monitor V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

190 0 8 K1262 H Secon Rad Temp V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.689) - 225.9

191 0 8 K1263 A Rad. Mon. FET1 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

192 0 8 K1264 A Rad. Mon. FET3 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

193 0 8 K1265 HDoorBellowPress V Bar
**CURVE** Eng. Value [Bar] = ((Binary Value * 39.06)/1000)-2

194 0 8 K1266 E CCD 3 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

195 0 8 K1267 E CCD 3 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

196 0 8 K1268 E CCD 3 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

197 0 8 K1269 E CCD 3 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

198 0 8 K1270 E CCD 3 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

199 0 8 K1271 E CCD 3 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

200 0 8 K1272 E CCD 3 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

201 0 8 K1273 E CCD 3 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

202 0 8 K1274 E CCD 3 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

203 0 8 K1275 E CCD 3 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

204 0 8 K1276 E CCD 3 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

205 0 8 K1277 E CCD 3 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

206 0 8 K1278 E CCD 3 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

207 0 8 K1279 E CCD 3 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

208 0 8 K1280 E CCD 3 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

209 0 8 K1281 E CCD 3 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

210 0 8 K1282 E CCD 6 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

211 0 8 K1283 E CCD 6 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

212 0 8 K1284 E CCD 6 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

213 0 8 K1285 E CCD 6 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

214 0 8 K1286 E CCD 6 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

215 0 8 K1287 E CCD 6 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

216 0 8 K1288 E CCD 6 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

217 0 8 K1289 E CCD 6 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

218 0 8 K1290 E CCD 6 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

219 0 8 K1291 E CCD 6 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

220 0 8 K1292 E CCD 6 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

221 0 8 K1293 E CCD 6 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

222 0 8 K1294 E CCD 6 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

223 0 8 K1295 E CCD 6 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

224 0 8 K1296 E CCD 6 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

225 0 8 K1297 E CCD 6 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

226 0 1 K1298 A AnCh7/8 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
226 1 1 K1299 AAnCh7/8InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
226 2 1 K1300 AAnCh7/8InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

226 3 1 K1301 AAnCh7/8InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
226 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

226 5 3 K1302 AAnCh7/8IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
227 0 8 K1305 AAnCh7/8GaNumSet V n/a
**CURVE**

228 0 7 K1306 AAnCh7/8LoadAddL V n/a
**CURVE**

228 7 1 K1589 AAnCh7/8DataBySe V n/a
**RAW MEANING**
0 Low
1 High
229 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

229 6 2 K1307 AAnCh7/8LoadAddM V n/a
**RAW MEANING**

230 0 8 K1308 HFPlaneExtRanTem V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

231 0 8 K1309 AAnCh7/8LoadData V n/a
**CURVE**

232 0 8 K1310 H FW Motor Temp V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.953) - 273

233 0 8 K1311 A AE Electr Temp V degC
**CURVE** Eng. Value [°C] = 89.794 - (Binary Value * 1.2723) + (Binary Value^2 * 6.9E-3) - (Binary Value^3 * 1.7E10-5)

234 0 8 K1312 AFPNomThCoTemMo V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.1) - 170.1

235 0 8 K1313 A Rad. Mon. FET2 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

236 0 8 K1314 A Rad. Mon. FET4 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

237 0 8 K1315 H CH Electr Temp V degC
**CURVE** Eng. Value [°C] = 58.08 - (Raw Value * 2.2888) + (Raw Value^2 * 2.9E-2) - (Raw Value^3 * 1.7E-4) + (Raw Value^4 *

238 0 1 K1592 C AnCh3/4 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
238 1 1 K1593 CAnCh3/4InbCtrlC V n/a
**RAW MEANING**
0 OFF

1 ON

238 2 1 K1594 CAnCh3/4InbCtrlB V n/a

**RAW MEANING**

0 OFF
1 ON

238 3 1 K1595 CAnCh3/4InbCtrlA V n/a

**RAW MEANING**

0 OFF
1 ON

238 4 1 FIX Fix bit pattern F n/a 0

**CURVE**

238 5 3 K1596 CAnCh3/4IntSimul V n/a

**RAW MEANING**

0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

239 0 1 K1599 C AnCh1/2 SeqRam V n/a

**RAW MEANING**

0 Load
1 Run

239 1 1 K1600 CAnCh1/2InbCtrlC V n/a

**RAW MEANING**

0 OFF
1 ON

239 2 1 K1601 CAnCh1/2InbCtrlB V n/a

**RAW MEANING**

0 OFF
1 ON

239 3 1 K1602 CAnCh1/2InbCtrlA V n/a

**RAW MEANING**

0 OFF
1 ON

239 4 1 FIX Fix bit pattern F n/a 0

**CURVE**

239 5 3 K1603 CAnCh1/2IntSimul V n/a

**RAW MEANING**

0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

240 0 1 K1606 C AnCh7/8 SeqRam V n/a

**RAW MEANING**

0 Load
1 Run

240 1 1 K1607 CAnCh7/8InbCtrlC V n/a

**RAW MEANING**

0 OFF
1 ON

240 2 1 K1608 CAnCh7/8InbCtrlB V n/a

**RAW MEANING**

0 OFF
1 ON

240 3 1 K1609 CAnCh7/8InbCtrlA V n/a

**RAW MEANING**

0 OFF
1 ON

240 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

240 5 3 K1610 CAnCh7/8IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

241 0 1 K1613 C AnCh5/6 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

241 1 1 K1614 CAnCh5/6InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

241 2 1 K1615 CAnCh5/6InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

241 3 1 K1616 CAnCh5/6InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

241 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

241 5 3 K1617 CAnCh5/6IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

242 0 8 FIX Fix bit pattern F n/a 0
**CURVE**

243 0 32 FIX Fix bit pattern F n/a 0
**CURVE**

247 0 1 K1316 CFWExpNomStopSen V n/a
**RAW MEANING**
0 In Position
1 Out Position

247 1 2 FIX Fix bit pattern F n/a 0
**CURVE**

247 3 3 K1624 CFWExAbsPosition V n/a
**RAW MEANING**
0 Open
1 Filter D
2 Filter C
3 Filter B
4 Filter A
5 Closed

6 IllegalValue
7 Not Valid CS

247 6 1 K1625 CFWExpRedStopSen V n/a
**RAW MEANING**
0 In Position
1 Out Position

247 7 1 FIX Fix bit pattern F n/a 0
**CURVE**

248 0 16 K1317 CFWActStepNumRef V n/a
**CURVE**

250 0 4 K1318 CGroup1SeqNumber V n/a
**CURVE**

250 4 12 K1319 C Group1 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

252 0 4 K1320 C Gr1 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

252 4 12 K1321 C Group1X0Posit. V n/a
**CURVE**

254 0 4 K1322 C Gr1 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

254 4 12 K1323 C Group1Y0Posit. V n/a
**CURVE**

256 0 4 K1324 CGroup1ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

256 4 12 K1325 C Group1 X Size V n/a
**CURVE**

258 0 4 K1326 CGroup1ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

258 4 12 K1327 C Group1 Y Size V n/a
**CURVE**

260 0 4 K1328 CGroup2SeqNumber V n/a
**CURVE**

260 4 12 K1329 C Group2 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

262 0 4 K1330 C Gr2 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

262 4 12 K1331 C Group2X0Posit. V n/a
**CURVE**

264 0 4 K1332 C Gr2 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

264 4 12 K1333 C Group2Y0Posit. V n/a
**CURVE**

266 0 4 K1334 CGroup2ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

266 4 12 K1335 C Group2 X Size V n/a
**CURVE**

268 0 4 K1336 CGroup2ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

268 4 12 K1337 C Group2 Y Size V n/a
**CURVE**

270 0 4 K1338 CGroup3SeqNumber V n/a
**CURVE**

270 4 12 K1339 C Group3 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

272 0 4 K1340 C Gr3 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

272 4 12 K1341 C Group3X0Posit. V n/a
**CURVE**

274 0 4 K1342 C Gr3 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

274 4 12 K1343 C Group3Y0Posit. V n/a
**CURVE**

276 0 4 K1344 CGroup3ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

276 4 12 K1345 C Group3 X Size V n/a
**CURVE**

278 0 4 K1346 CGroup3ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

278 4 12 K1347 C Group3 Y Size V n/a
**CURVE**

280 0 4 K1348 CGroup4SeqNumber V n/a
**CURVE**

280 4 12 K1349 C Group4 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

282 0 4 K1350 C Gr4 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

282 4 12 K1351 C Group4X0Posit. V n/a
**CURVE**

284 0 4 K1352 C Gr4 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

284 4 12 K1353 C Group4Y0Posit. V n/a
**CURVE**

286 0 4 K1354 CGroup4ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

286 4 12 K1355 C Group4 X Size V n/a
**CURVE**

288 0 4 K1356 CGroup4ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 288 | 4 | 12 | K1357 | C Group4 Y Size | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 0 | 2 | K1358 | CEDU0OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 2 | 2 | K1359 | CEDU0ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 4 | 3 | K1360 | CEDU0Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 7 | 3 | K1361 | CEDU0Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 291 | 2 | 3 | K1362 | CEDU0TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 291 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 0 | 2 | K1363 | CEDU1OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 2 | 2 | K1364 | CEDU1ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 4 | 3 | K1365 | CEDU1Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 7 | 3 | K1366 | CEDU1Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 293 | 2 | 3 | K1367 | CEDU1TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 293 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 0 | 2 | K1368 | CEDU2OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 2 | 2 | K1369 | CEDU2ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 4 | 3 | K1370 | CEDU2Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 7 | 3 | K1371 | CEDU2Node1TabOff | V | n/a | |

**RAW MEANING**

295 2 3 K1372 CEDU2TabPattMask V n/a
**RAW MEANING**

295 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

296 0 2 K1373 CEDU3OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

296 2 2 K1374 CEDU3ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

296 4 3 K1375 CEDU3Node0TabOff V n/a
**RAW MEANING**

296 7 3 K1376 CEDU3Node1TabOff V n/a
**RAW MEANING**

297 2 3 K1377 CEDU3TabPattMask V n/a
**RAW MEANING**

297 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

298 0 2 K1378 CEDU4OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

298 2 2 K1379 CEDU4ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

298 4 3 K1380 CEDU4Node0TabOff V n/a
**RAW MEANING**

298 7 3 K1381 CEDU4Node1TabOff V n/a
**RAW MEANING**

299 2 3 K1382 CEDU4TabPattMask V n/a
**RAW MEANING**

299 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

300 0 2 K1383 CEDU5OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

300 2 2 K1384 CEDU5ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

300 4 3 K1385 CEDU5Node0TabOff V n/a
**RAW MEANING**

300 7 3 K1386 CEDU5Node1TabOff V n/a
**RAW MEANING**

301 2 3 K1387 CEDU5TabPattMask V n/a
**RAW MEANING**

301 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

302 0 2 K1388 CEDU6OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

302 2 2 K1389 CEDU6ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

302 4 3 K1390 CEDU6Node0TabOff V n/a
**RAW MEANING**

302 7 3 K1391 CEDU6Node1TabOff V n/a
**RAW MEANING**

303 2 3 K1392 CEDU6TabPattMask V n/a
**RAW MEANING**

303 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

304 0 2 K1393 CEDU7OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

304 2 2 K1394 CEDU7ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

304 4 3 K1395 CEDU7Node0TabOff V n/a
**RAW MEANING**

304 7 3 K1396 CEDU7Node1TabOff V n/a
**RAW MEANING**

305 2 3 K1397 CEDU7TabPattMask V n/a
**RAW MEANING**

305 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

306 0 16 K1398 C EDU0Node0Thres V n/a
**CURVE**

308 0 16 K1399 C EDU0Node1Thres V n/a
**CURVE**

310 0 16 K1400 C EDU1Node0Thres V n/a
**CURVE**

312 0 16 K1401 C EDU1Node1Thres V n/a
**CURVE**

314 0 16 K1402 C EDU2Node0Thres V n/a
**CURVE**

316 0 16 K1403 C EDU2Node1Thres V n/a
**CURVE**

318 0 16 K1404 C EDU3Node0Thres V n/a
**CURVE**

320 0 16 K1405 C EDU3Node1Thres V n/a
**CURVE**

322 0 16 K1406 C EDU4Node0Thres V n/a
**CURVE**

324 0 16 K1407 C EDU4Node1Thres V n/a
**CURVE**

326 0 16 K1408 C EDU5Node0Thres V n/a
**CURVE**

328 0 16 K1409 C EDU5Node1Thres V n/a
**CURVE**

330 0 16 K1410 C EDU6Node0Thres V n/a
**CURVE**

332 0 16 K1411 C EDU6Node1Thres V n/a
**CURVE**

334 0 16 K1412 C EDU7Node0Thres V n/a
**CURVE**

336 0 16 K1413 C EDU7Node1Thres V n/a
**CURVE**

338 0 4 K1414 C Selected EDU V n/a
**CURVE**

338 4 12 K1415 CTestImageHighEn V n/a
**CURVE**

340 0 1 K1416 C TestConfigType V n/a
**RAW MEANING**
0 Loaded Image
1 Built Image

340 1 3 K1417 CTstConfigPatter V n/a
**RAW MEANING**

340 4 12 K1418 C TestImageLowEn V n/a
**CURVE**

342 0 1 K1419 C AnnDriveStatus V n/a
**RAW MEANING**
0 OFF
1 ON

342 1 2 K1420 C FW OpConfMotor V n/a
**RAW MEANING**
0 Both ON

1 Nominal ON
2 Redundant ON

342 3 1 K1421 C FWOpConfRotDir V n/a
**RAW MEANING**
0 Forward
1 Backward

342 4 1 K1422 CFWOpConfRotMode V n/a
**RAW MEANING**
0 Normal
1 Step

342 5 11 K1423 CFWOpConfReqPosS V n/a
**CURVE**

344 0 8 K1424 CAnn.Min.Tem.Set V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

345 0 8 K1425 CAnn.Max.Tem.Set V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

346 0 3 FIX Fix bit pattern F n/a 0
**CURVE**

346 3 1 K1426 CFWStatusTimeOut V n/a
**RAW MEANING**
0 NoTimeoutErr
1 TimeoutError

346 4 1 K1427 C FWStatusPosErr V n/a
**RAW MEANING**
0 In Position
1 Out Position

346 5 11 K1428 CFWStatusEMReqSt V n/a
**CURVE**

348 0 8 K1429 C Rej DH Cm Cnt V n/a
**CURVE**

349 0 8 K1430 C Last Ac DH Com V n/a
**CURVE**

350 0 8 K1431 C EDU Cm OK Cnt V n/a
**CURVE**

351 0 8 K1432 C EDU Cm Rec Cnt V n/a
**CURVE**

352 0 8 K1433 C EDU Cm Rej Cnt V n/a
**CURVE**

353 0 8 K1434 C EDUTabLoaOKCnt V n/a
**CURVE**

354 0 8 K1435 CEDUTabLoaRecCnt V n/a
**CURVE**

355 0 8 K1436 CEDUTabLoaRejCnt V n/a
**CURVE**

356 0 8 K1437 C FIFOEDUCmRej16 V n/a
**CURVE**

357 0 8 K1438 C FIFOEDUCmRej15 V n/a
**CURVE**

| | | | | | | |
|---|---|---|---|---|---|---|
| 358 | 0 | 8 | K1439 | C FIFOEDUCmRej14 | V | n/a |
| **CURVE** | | | | | | |
| 359 | 0 | 8 | K1440 | C FIFOEDUCmRej13 | V | n/a |
| **CURVE** | | | | | | |
| 360 | 0 | 8 | K1441 | C FIFOEDUCmRej12 | V | n/a |
| **CURVE** | | | | | | |
| 361 | 0 | 8 | K1442 | C FIFOEDUCmRej11 | V | n/a |
| **CURVE** | | | | | | |
| 362 | 0 | 8 | K1443 | C FIFOEDUCmRej10 | V | n/a |
| **CURVE** | | | | | | |
| 363 | 0 | 8 | K1444 | C FIFOEDUCmRej9 | V | n/a |
| **CURVE** | | | | | | |
| 364 | 0 | 8 | K1445 | C FIFOEDUCmRej8 | V | n/a |
| **CURVE** | | | | | | |
| 365 | 0 | 8 | K1446 | C FIFOEDUCmRej7 | V | n/a |
| **CURVE** | | | | | | |
| 366 | 0 | 8 | K1447 | C FIFOEDUCmRej6 | V | n/a |
| **CURVE** | | | | | | |
| 367 | 0 | 8 | K1448 | C FIFOEDUCmRej5 | V | n/a |
| **CURVE** | | | | | | |
| 368 | 0 | 8 | K1449 | C FIFOEDUCmRej4 | V | n/a |
| **CURVE** | | | | | | |
| 369 | 0 | 8 | K1450 | C FIFOEDUCmRej3 | V | n/a |
| **CURVE** | | | | | | |
| 370 | 0 | 8 | K1451 | C FIFOEDUCmRej2 | V | n/a |
| **CURVE** | | | | | | |
| 371 | 0 | 8 | K1452 | C FIFOEDUCmRej1 | V | n/a |
| **CURVE** | | | | | | |
| 372 | 0 | 8 | K1453 | C EMAE Cm OK Cnt | V | n/a |
| **CURVE** | | | | | | |
| 373 | 0 | 8 | K1454 | CEMAE Cm Rec Cnt | V | n/a |
| **CURVE** | | | | | | |
| 374 | 0 | 8 | K1455 | CEMAE Cm Rej Cnt | V | n/a |
| **CURVE** | | | | | | |
| 375 | 0 | 8 | K1456 | CEMAESeqLoaOKCnt | V | n/a |
| **CURVE** | | | | | | |
| 376 | 0 | 8 | K1457 | CEMAESeqLdRecCnt | V | n/a |
| **CURVE** | | | | | | |
| 377 | 0 | 8 | K1458 | CEMAESeqLdRejCnt | V | n/a |
| **CURVE** | | | | | | |
| 378 | 0 | 8 | K1459 | CFIFOEMAECmRej16 | V | n/a |
| **CURVE** | | | | | | |
| 379 | 0 | 8 | K1460 | CFIFOEMAECmRej15 | V | n/a |
| **CURVE** | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 380 | 0 | 8 | K1461 | CFIFOEMAECmRej14 | V | n/a |
| **CURVE** | | | | | | |
| 381 | 0 | 8 | K1462 | CFIFOEMAECmRej13 | V | n/a |
| **CURVE** | | | | | | |
| 382 | 0 | 8 | K1463 | CFIFOEMAECmRej12 | V | n/a |
| **CURVE** | | | | | | |
| 383 | 0 | 8 | K1464 | CFIFOEMAECmRej11 | V | n/a |
| **CURVE** | | | | | | |
| 384 | 0 | 8 | K1465 | CFIFOEMAECmRej10 | V | n/a |
| **CURVE** | | | | | | |
| 385 | 0 | 8 | K1466 | CFIFOEMAECmRej9 | V | n/a |
| **CURVE** | | | | | | |
| 386 | 0 | 8 | K1467 | CFIFOEMAECmRej8 | V | n/a |
| **CURVE** | | | | | | |
| 387 | 0 | 8 | K1468 | CFIFOEMAECmRej7 | V | n/a |
| **CURVE** | | | | | | |
| 388 | 0 | 8 | K1469 | CFIFOEMAECmRej6 | V | n/a |
| **CURVE** | | | | | | |
| 389 | 0 | 8 | K1470 | CFIFOEMAECmRej5 | V | n/a |
| **CURVE** | | | | | | |
| 390 | 0 | 8 | K1471 | CFIFOEMAECmRej4 | V | n/a |
| **CURVE** | | | | | | |
| 391 | 0 | 8 | K1472 | CFIFOEMAECmRej3 | V | n/a |
| **CURVE** | | | | | | |
| 392 | 0 | 8 | K1473 | CFIFOEMAECmRej2 | V | n/a |
| **CURVE** | | | | | | |
| 393 | 0 | 8 | K1474 | CFIFOEMAECmRej1 | V | n/a |
| **CURVE** | | | | | | |
| 394 | 0 | 8 | K1475 | C BootS/Wversion | V | n/a |
| **CURVE** | | | | | | |
| 395 | 0 | 8 | K1476 | C RAM SW version | V | n/a |
| **CURVE** | | | | | | |
| 396 | 0 | 1 | K1477 | C PW ON Test RAM | V | n/a |

| **RAW** | **MEANING** |
|---|---|
| 0 | Failed |
| 1 | Passed |

| | | | | | | |
|---|---|---|---|---|---|---|
| 396 | 1 | 1 | K1478 | CPWONTestROMBoot | V | n/a |

| **RAW** | **MEANING** |
|---|---|
| 0 | Failed |
| 1 | Passed |

| | | | | | | |
|---|---|---|---|---|---|---|
| 396 | 2 | 1 | K1479 | CPWONTestROMProg | V | n/a |

| **RAW** | **MEANING** |
|---|---|
| 0 | Failed |
| 1 | Passed |

| | | | | | | |
|---|---|---|---|---|---|---|
| 396 | 3 | 1 | K1480 | CPWONTestRAMProg | V | n/a |

| **RAW** | **MEANING** |
|---|---|
| 0 | Failed |
| 1 | Passed |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 396 | 4 | 4 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 0 | 1 | K1628 | C Group 4 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 1 | 1 | K1627 | C Group 3 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 2 | 1 | K1626 | C Group 2 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 3 | 1 | K1481 | C Group 1 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 4 | 4 | K1482 | C Operating Mode | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Initializat. |
| 1 | Stand-By |
| 2 | Observation |
| 3 | Test |
| 4 | Annealing |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40006* | *1664* | *Succ. Command Exec.* | *4* | *1* | *16* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0341***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***1000***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *16* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | | |
| 16 | 0 | 16 | K1483 | TC SequenceCount | V | n/a | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40007* | *1664* | *Full Scientific Buf.* | *4* | *1* | *47* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0341***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***2F00***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *47* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 16 | K1486 | HBR Identifier | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40008* | *1664* | *Automatic Transition* | *4* | *1* | *17* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0341***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***1100***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *17* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1709 | AutomTransReason | V | n/a |

| RAW | MEANING |
|---|---|
| 1 | OBDH loss |
| 2 | ErrDiagnProc |
| 3 | EndDiagnProc |
| 4 | ErrorO/Vproc |
| 5 | End O/V Proc |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40009* | *1664* | *SuccesLoadTaskExecut* | *4* | *1* | *18* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0341***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***1200***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *18* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 16 | K1483 | TC SequenceCount | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 18 | 0 | 16 | K1484 | EMDH Task Ident. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40010* | *1664* | *LBR Protocol Error* | *4* | *2* | *81* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0342***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***51//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *81* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1633 | FirstLBRfailure | V | n/a |

| RAW | MEANING |
|---|---|
| 17 | WrongChecks. |
| 34 | OVflowLCleng |
| 51 | Time-outErr. |
| 68 | LC running |
| 250 | busyLBR |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1634 | SecondLBRfailure | V | n/a |

| RAW | MEANING |
|---|---|
| 17 | WrongChecks. |
| 34 | OVflowLCleng |
| 51 | Time-outErr. |
| 68 | LC running |
| 250 | busyLBR |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1635 | ThirdLBRfailure | V | n/a |

| RAW | MEANING |
|---|---|
| 17 | WrongChecks. |
| 34 | OVflowLCleng |
| 51 | Time-outErr. |
| 68 | LC running |
| 250 | busyLBR |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1636 | FourthLBRfailure | V | n/a |

| RAW | MEANING |
|---|---|
| 17 | WrongChecks. |
| 34 | OVflowLCleng |
| 51 | Time-outErr. |
| 68 | LC running |

250 busyLBR
24 0 16 FIX Fix bit pattern F n/a 51
**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40011* | *1664* | *Failed Initializat.* | *4* | *3* | *112* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0343***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***70//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *112* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 14 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 17 | 6 | 1 | K1694 | MasInReEDACcheck | V | n/a | | | | | |
| **RAW** | **MEANING** | | | | | | | | | | |
| 0 | OK | | | | | | | | | | |
| 1 | Not OK | | | | | | | | | | |
| 17 | 7 | 1 | K1695 | MasterInitRepBIT | V | n/a | | | | | |
| **RAW** | **MEANING** | | | | | | | | | | |
| 0 | OK | | | | | | | | | | |
| 1 | Not OK | | | | | | | | | | |
| 18 | 0 | 16 | K1696 | MasInRepSPROMCRC | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 20 | 0 | 16 | K1697 | MasIniRepPROCcrc | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 22 | 0 | 16 | K1698 | MasIniRepRAMrslt | V | n/a | | | | | |
| **RAW** | **MEANING** | | | | | | | | | | |
| 0 | OK | | | | | | | | | | |
| 1 | Not OK | | | | | | | | | | |
| 24 | 0 | 16 | K1699 | MasInReFaultPGnm | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 26 | 0 | 16 | K1700 | MasInReFaultPGof | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

28 0 16 K1701 MasInitRepRAMcrc V n/a
**CURVE**

30 0 14 FIX Fix bit pattern F n/a 0
**CURVE**

31 6 1 K1702 SciInReEDACcheck V n/a
**RAW MEANING**
0 OK
1 Not OK

31 7 1 K1703 SciInitReportBIT V n/a
**RAW MEANING**
0 OK
1 Not OK

32 0 16 K1704 SciInitRepSPROM V n/a
**CURVE**

34 0 16 K1705 SciInitRepRAMcrc V n/a
**CURVE**

36 0 16 K1706 LoadResidPerProc V n/a
**RAW MEANING**
0 OK
1 Not OK

38 0 16 K1707 ThermControlFlag V n/a
**RAW MEANING**
0 OK
1 Not OK

40 0 16 K1708 UnloadInitpr1ssb V n/a
**RAW MEANING**
0 OK
1 Not OK

42 0 16 K1710 EMCR HK DataFlag V n/a
**RAW MEANING**
0 OK
1 Not OK

44 0 16 K1068 C EDU 0 Status V n/a
**CURVE**

46 0 16 K1069 C EDU 1 Status V n/a
**CURVE**

48 0 16 K1070 C EDU 2 Status V n/a
**CURVE**

50 0 16 K1071 C EDU 3 Status V n/a
**CURVE**

52 0 16 K1072 C EDU 4 Status V n/a
**CURVE**

54 0 16 K1073 C EDU 5 Status V n/a
**CURVE**

56 0 16 K1074 C EDU 6 Status V n/a
**CURVE**

58 0 16 K1075 C EDU 7 Status V n/a
**CURVE**

60 0 8 K1076 C EMAE -6 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

61 0 8 K1077 C EMAE +6 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

62 0 8 K1078 C EMAE -13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.195

63 0 8 K1079 C EMAE +13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.195

64 0 8 K1080 C EMAE +28V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.414

65 0 8 K1081 C EMAE +18V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.260

66 0 8 K1082 C Signal Ground V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.039

67 0 8 K1083 C EMAE +32V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.466

68 0 8 K1084 V EMVC Temp. #1 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

69 0 8 K1085 C EMCR Temp. #1 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

70 0 8 K1086 C EMCR +5 V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.082

71 0 8 K1087 V EMVC Temp. #2 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

72 0 8 K1088 C EMCR -13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.205

73 0 8 K1089 C EMCR +13V Line V V
**CURVE** Eng. Value [V] = (Binary Value - 128) * 0.205

74 0 8 FIX Fix bit pattern F n/a 0
**CURVE**

75 0 8 K1090 C EMCR Temp. #2 V degC
**CURVE** Eng. Value [°C] = (((Binary Value - 128) * 0.039) + 1.325) / 0.0681

76 0 8 K1091 CEMAECmEchoErCnt V n/a
**CURVE**

77 0 8 K1092 CEMAELsWrEchoCom V n/a
**RAW MEANING**

78 0 8 K1093 E CCD 1 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

79 0 8 K1094 E CCD 1 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

80 0 8 K1095 E CCD 1 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

81 0 8 K1096 E CCD 1 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

82 0 8 K1097 E CCD 1 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

83 0 8 K1098 E CCD 1 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

84 0 8 K1099 E CCD 1 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

85 0 8 K1100 E CCD 1 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

86 0 8 K1101 E CCD 1 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

87 0 8 K1102 E CCD 1 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

88 0 8 K1103 E CCD 1 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

89 0 8 K1104 E CCD 1 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

90 0 8 K1105 E CCD 1 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

91 0 8 K1106 E CCD 1 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

92 0 8 K1107 E CCD 1 RESET 2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

93 0 8 K1108 E CCD 1 RESET 1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

94 0 1 K1109 A AnCh1/2 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

94 1 1 K1110 AAnCh1/2InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

94 2 1 K1111 AAnCh1/2InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

94 3 1 K1112 AAnCh1/2InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

94 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

94 5 3 K1113 AAnCh1/2IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax

5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

95 0 8 K1116 AAnCh1/2GaNumSet V n/a
**CURVE**

96 0 7 K1117 AAnCh1/2LoadAddL V n/a
**CURVE**

96 7 1 K1586 AAnCh1/2DataBySe V n/a
**RAW MEANING**
0 Low
1 High

97 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

97 6 2 K1118 AAnCh1/2LoadAddM V n/a
**RAW MEANING**

98 0 1 K1119 A Seq PC FW Mode V n/a
**RAW MEANING**
0 Load
1 Run

98 1 1 K1120 A SeqPCFWDrvInbC V n/a
**RAW MEANING**
0 OFF
1 ON

98 2 1 K1121 A SeqPCFWDrvInbB V n/a
**RAW MEANING**
0 OFF
1 ON

98 3 1 K1122 A SeqPCFWDrvInbA V n/a
**RAW MEANING**
0 OFF
1 ON

98 4 2 FIX Fix bit pattern F n/a 0
**CURVE**

98 6 1 K1123 ASeqPCWhDrvDirec V n/a
**RAW MEANING**
0 Forward
1 Backward

98 7 1 K1124 A SeqPCWhMovTrig V n/a
**RAW MEANING**

99 0 8 K1125 AAnCh1/2LoadData V n/a
**CURVE**

100 0 7 K1126 A SeqFW LoadAddL V n/a
**CURVE**

100 7 1 K1590 A SeqFW DataBySe V n/a
**RAW MEANING**
0 Low
1 High

101 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

101 6 2 K1127 A SeqFW LoadAddM V n/a
**RAW MEANING**

102 0 8 K1128 A FWActStepCntM V n/a
**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 103 | 0 | 8 | K1129 | A SeqFW LoadData | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 0 | 1 | K1130 | A AnCh8 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 1 | 1 | K1131 | A AnCh7 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 2 | 1 | K1132 | A AnCh6 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 3 | 1 | K1133 | A AnCh5 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 4 | 1 | K1134 | A AnCh4 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 5 | 1 | K1135 | A AnCh3 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 6 | 1 | K1136 | A AnCh2 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 104 | 7 | 1 | K1137 | A AnCh1 PWStatus | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 105 | 0 | 8 | K1138 | A FWActStepCntL | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 0 | 2 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 2 | 1 | K1139 | H PreAmp14 PW ST | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 3 | 1 | K1140 | H PreAmp13 PW ST | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 4 | 1 | K1141 | H PreAmp12 PW ST | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 5 | 1 | K1142 | H PreAmp11 PW ST | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 6 | 1 | K1143 | H PreAmp10 PW ST | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 106 | 7 | 1 | K1144 | H PreAmp09 PW ST | V | n/a | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 0 1 K1145 H PreAmp01 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 1 1 K1146 H PreAmp02 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 2 1 K1147 H PreAmp03 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 3 1 K1148 H PreAmp04 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 4 1 K1149 H PreAmp05 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 5 1 K1150 H PreAmp06 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 6 1 K1151 H PreAmp07 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

107 7 1 K1152 H PreAmp08 PW ST V n/a

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

108 0 1 K1153 ASeq7/8ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 1 1 K1154 ASeq5/6ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 2 1 K1155 ASeq3/4ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 3 1 K1156 ASeq1/2ReadOutSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 4 1 K1157 ASeq7/8FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 5 1 K1158 ASeq5/6FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 6 1 K1159 ASeq3/4FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

108 7 1 K1160 ASeq1/2FrmTranSy V n/a

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

109 0 4 FIX Fix bit pattern F n/a 0
**CURVE**

109 4 1 K1161 AFPTCPwStAnHeReD V n/a
**RAW MEANING**
0 OFF
1 ON

109 5 1 K1162 AFPTCPwStVacuSen V n/a
**RAW MEANING**
0 OFF
1 ON

109 6 1 K1163 AFPTCPwStTemConR V n/a
**RAW MEANING**
0 OFF
1 ON

109 7 1 K1164 AFPTCPwStTemConN V n/a
**RAW MEANING**
0 OFF
1 ON

110 0 8 K1165 E CCD 2 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

111 0 8 K1166 E CCD 2 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

112 0 8 K1167 E CCD 2 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

113 0 8 K1168 E CCD 2 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

114 0 8 K1169 E CCD 2 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

115 0 8 K1170 E CCD 2 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

116 0 8 K1171 E CCD 2 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

117 0 8 K1172 E CCD 2 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

118 0 8 K1173 E CCD 2 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

119 0 8 K1174 E CCD 2 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

120 0 8 K1175 E CCD 2 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

121 0 8 K1176 E CCD 2 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

122 0 8 K1177 E CCD 2 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

123 0 8 K1178 E CCD 2 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

124 0 8 K1179 E CCD2 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

125 0 8 K1180 E CCD2 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

126 0 8 K1181 E CCD 5 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

127 0 8 K1182 E CCD 5 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

128 0 8 K1183 E CCD 5 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

129 0 8 K1184 E CCD 5 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

130 0 8 K1185 E CCD 5 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

131 0 8 K1186 E CCD 5 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

132 0 8 K1187 E CCD 5 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

133 0 8 K1188 E CCD 5 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

134 0 8 K1189 E CCD 5 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

135 0 8 K1190 E CCD 5 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

136 0 8 K1191 E CCD 5 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

137 0 8 K1192 E CCD 5 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

138 0 8 K1193 E CCD 5 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

139 0 8 K1194 E CCD 5 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

140 0 8 K1195 E CCD 5 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

141 0 8 K1196 E CCD 5 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

142 0 1 K1197 A AnCh3/4 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
142 1 1 K1198 AAnCh3/4InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
142 2 1 K1199 AAnCh3/4InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
142 3 1 K1200 AAnCh3/4InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
142 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

142 5 3 K1201 AAnCh3/4IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
143 0 8 K1204 AAnCh3/4GaNumSet V n/a
**CURVE**

144 0 7 K1205 AAnCh3/4LoadAddL V n/a
**CURVE**

144 7 1 K1587 AAnCh3/4DataBySe V n/a
**RAW MEANING**
0 Low
1 High
145 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

145 6 2 K1206 AAnCh3/4LoadAddM V n/a
**RAW MEANING**

146 0 8 K1207 AFPNomThCoTemSet V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.869) - 168

147 0 8 K1208 AAnCh3/4LoadData V n/a
**CURVE**

148 0 8 K1209 E CCD 4 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

149 0 8 K1210 AFPRedThCoTemSet V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.869) - 168

150 0 8 K1211 E CCD 4 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

151 0 8 K1212 E CCD 4 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

152 0 8 K1213 E CCD 4 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

153 0 8 K1214 E CCD 4 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

154 0 8 K1215 E CCD 4 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

155 0 8 K1216 E CCD 4 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

156 0 8 K1217 E CCD 4 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

157 0 8 K1218 E CCD 4 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

158 0 8 K1219 E CCD 4 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

159 0 8 K1220 E CCD 4 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

160 0 8 K1221 E CCD 4 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

161 0 8 K1222 E CCD 4 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

162 0 8 K1223 E CCD 4 RESET 1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

163 0 8 K1224 E CCD 4 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

164 0 8 K1225 E CCD 7 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

165 0 8 K1226 E CCD 4 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

166 0 8 K1227 E CCD 7 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

167 0 8 K1228 E CCD 7 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

168 0 8 K1229 E CCD 7 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

169 0 8 K1230 E CCD 7 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

170 0 8 K1231 E CCD 7 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

171 0 8 K1232 E CCD 7 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

172 0 8 K1233 E CCD 7 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

173 0 8 K1234 E CCD 7 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

174 0 8 K1235 E CCD 7 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

175 0 8 K1236 E CCD 7 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

176 0 8 K1237 E CCD 7 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

177 0 8 K1238 E CCD 7 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

178 0 8 K1239 E CCD 7 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

179 0 8 K1240 E CCD 7 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

180 0 8 K1241 AAnCh5/6GaNumSet V n/a
**CURVE**

181 0 8 K1242 E CCD 7 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

182 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

182 6 2 K1243 AAnCh5/6LoadAddM V n/a
**RAW MEANING**

183 0 1 K1244 A AnCh5/6 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

183 1 1 K1245 AAnCh5/6InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

183 2 1 K1246 AAnCh5/6InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

183 3 1 K1247 AAnCh5/6InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

183 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

183 5 3 K1248 AAnCh5/6IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
184 0 8 K1251 AAnCh5/6LoadData V n/a
**CURVE**

185 0 7 K1252 AAnCh5/6LoadAddL V n/a
**CURVE**

185 7 1 K1588 AAnCh5/6DataBySe V n/a
**RAW MEANING**
0 Low
1 High
186 0 8 K1253 H FPlanNorRanTem V degC
**CURVE** Eng. Value [°C] = (Binary Value * 0.357) - 159

187 0 1 K1254 H FW NominalStop V n/a
**RAW MEANING**
0 In Position
1 Out Position
187 1 1 K1255 HDoorBellowState V n/a
**RAW MEANING**
0 Retracted
1 NotRetracted
187 2 1 K1256 H Door Open uSw V n/a
**RAW MEANING**
0 Open
1 Closed
187 3 3 K1257 H FW Position V n/a
**RAW MEANING**
0 Open
1 Filter D
2 Filter C
3 Filter B
4 Filter A
5 Closed
6 IllegalValue
7 Not Valid CS
187 6 1 K1258 H FW Redund Stop V n/a
**RAW MEANING**
0 In Position
1 Out Position
187 7 1 FIX Fix bit pattern F n/a 0
**CURVE**

188 0 8 K1260 AFPRedThCoTemMon V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.1) - 170.1

189 0 8 K1261 H Vacuum Monitor V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

190 0 8 K1262 H Secon Rad Temp V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.689) - 225.9

191 0 8 K1263 A Rad. Mon. FET1 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

192 0 8 K1264 A Rad. Mon. FET3 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

193 0 8 K1265 HDoorBellowPress V Bar
**CURVE** Eng. Value [Bar] = ((Binary Value * 39.06)/1000)-2

194 0 8 K1266 E CCD 3 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

195 0 8 K1267 E CCD 3 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

196 0 8 K1268 E CCD 3 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

197 0 8 K1269 E CCD 3 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

198 0 8 K1270 E CCD 3 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

199 0 8 K1271 E CCD 3 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

200 0 8 K1272 E CCD 3 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

201 0 8 K1273 E CCD 3 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

202 0 8 K1274 E CCD 3 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

203 0 8 K1275 E CCD 3 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

204 0 8 K1276 E CCD 3 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

205 0 8 K1277 E CCD 3 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

206 0 8 K1278 E CCD 3 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

207 0 8 K1279 E CCD 3 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

208 0 8 K1280 E CCD 3 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

209 0 8 K1281 E CCD 3 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

210 0 8 K1282 E CCD 6 VBB V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

211 0 8 K1283 E CCD 6 VSS V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

212 0 8 K1284 E CCD 6 VID V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

213 0 8 K1285 E CCD 6 VGR V V
**CURVE** Eng. Value [V] = Binary Value * 0.121

214 0 8 K1286 E CCD 6 VRD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

215 0 8 K1287 E CCD 6 VOG1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

216 0 8 K1288 E CCD 6 VOG2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.039

217 0 8 K1289 E CCD 6 VOD1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

218 0 8 K1290 E CCD 6 VOD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.152

219 0 8 K1291 E CCD 6 VRD2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.081

220 0 8 K1292 E CCD 6 S V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

221 0 8 K1293 E CCD 6 I V V
**CURVE** Eng. Value [V] = Binary Value * 0.0613

222 0 8 K1294 E CCD 6 IG V V
**CURVE** Eng. Value [V] = Binary Value * 0.059

223 0 8 K1295 E CCD 6 R V V
**CURVE** Eng. Value [V] = Binary Value * 0.0612

224 0 8 K1296 E CCD 6 RESET2 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

225 0 8 K1297 E CCD 6 RESET1 V V
**CURVE** Eng. Value [V] = Binary Value * 0.062

226 0 1 K1298 A AnCh7/8 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
226 1 1 K1299 AAnCh7/8InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
226 2 1 K1300 AAnCh7/8InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

226 3 1 K1301 AAnCh7/8InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
226 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

226 5 3 K1302 AAnCh7/8IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
227 0 8 K1305 AAnCh7/8GaNumSet V n/a
**CURVE**

228 0 7 K1306 AAnCh7/8LoadAddL V n/a
**CURVE**

228 7 1 K1589 AAnCh7/8DataBySe V n/a
**RAW MEANING**
0 Low
1 High
229 0 6 FIX Fix bit pattern F n/a 0
**CURVE**

229 6 2 K1307 AAnCh7/8LoadAddM V n/a
**RAW MEANING**

230 0 8 K1308 HFPlaneExtRanTem V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

231 0 8 K1309 AAnCh7/8LoadData V n/a
**CURVE**

232 0 8 K1310 H FW Motor Temp V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.953) - 273

233 0 8 K1311 A AE Electr Temp V degC
**CURVE** Eng. Value [°C] = 89.794 - (Binary Value * 1.2723) + (Binary Value^2 * 6.9E-3) - (Binary Value^3 * 1.7E10-5)

234 0 8 K1312 AFPNomThCoTemMo V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.1) - 170.1

235 0 8 K1313 A Rad. Mon. FET2 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

236 0 8 K1314 A Rad. Mon. FET4 V mV
**CURVE** Eng. Value [mV] = Binary Value * 39.06

237 0 8 K1315 H CH Electr Temp V degC
**CURVE** Eng. Value [°C] = 58.08 - (Raw Value * 2.2888) + (Raw Value^2 * 2.9E-2) - (Raw Value^3 * 1.7E-4) + (Raw Value^4 *

238 0 1 K1592 C AnCh3/4 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
238 1 1 K1593 CAnCh3/4InbCtrlC V n/a
**RAW MEANING**
0 OFF

1 ON
238 2 1 K1594 CAnCh3/4InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
238 3 1 K1595 CAnCh3/4InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
238 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

238 5 3 K1596 CAnCh3/4IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
239 0 1 K1599 C AnCh1/2 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
239 1 1 K1600 CAnCh1/2InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
239 2 1 K1601 CAnCh1/2InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
239 3 1 K1602 CAnCh1/2InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON
239 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

239 5 3 K1603 CAnCh1/2IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8
240 0 1 K1606 C AnCh7/8 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run
240 1 1 K1607 CAnCh7/8InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON
240 2 1 K1608 CAnCh7/8InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON
240 3 1 K1609 CAnCh7/8InbCtrlA V n/a
**RAW MEANING**

0 OFF
1 ON

240 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

240 5 3 K1610 CAnCh7/8IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

241 0 1 K1613 C AnCh5/6 SeqRam V n/a
**RAW MEANING**
0 Load
1 Run

241 1 1 K1614 CAnCh5/6InbCtrlC V n/a
**RAW MEANING**
0 OFF
1 ON

241 2 1 K1615 CAnCh5/6InbCtrlB V n/a
**RAW MEANING**
0 OFF
1 ON

241 3 1 K1616 CAnCh5/6InbCtrlA V n/a
**RAW MEANING**
0 OFF
1 ON

241 4 1 FIX Fix bit pattern F n/a 0
**CURVE**

241 5 3 K1617 CAnCh5/6IntSimul V n/a
**RAW MEANING**
0 ChainNorNod0
1 ChainNorNod1
2 Chain/10Nod0
3 Chain/10Nod1
4 SimulatorMax
5 Simulator_/2
6 Simulator_/4
7 Simulator_/8

242 0 8 FIX Fix bit pattern F n/a 0
**CURVE**

243 0 32 FIX Fix bit pattern F n/a 0
**CURVE**

247 0 1 K1316 CFWExpNomStopSen V n/a
**RAW MEANING**
0 In Position
1 Out Position

247 1 2 FIX Fix bit pattern F n/a 0
**CURVE**

247 3 3 K1624 CFWExAbsPosition V n/a
**RAW MEANING**
0 Open
1 Filter D
2 Filter C
3 Filter B
4 Filter A
5 Closed

6 IllegalValue
7 Not Valid CS

247 6 1 K1625 CFWExpRedStopSen V n/a
**RAW MEANING**
0 In Position
1 Out Position

247 7 1 FIX Fix bit pattern F n/a 0
**CURVE**

248 0 16 K1317 CFWActStepNumRef V n/a
**CURVE**

250 0 4 K1318 CGroup1SeqNumber V n/a
**CURVE**

250 4 12 K1319 C Group1 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

252 0 4 K1320 C Gr1 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

252 4 12 K1321 C Group1X0Posit. V n/a
**CURVE**

254 0 4 K1322 C Gr1 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

254 4 12 K1323 C Group1Y0Posit. V n/a
**CURVE**

256 0 4 K1324 CGroup1ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

256 4 12 K1325 C Group1 X Size V n/a
**CURVE**

258 0 4 K1326 CGroup1ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

258 4 12 K1327 C Group1 Y Size V n/a
**CURVE**

260 0 4 K1328 CGroup2SeqNumber V n/a
**CURVE**

260 4 12 K1329 C Group2 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

262 0 4 K1330 C Gr2 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

262 4 12 K1331 C Group2X0Posit. V n/a
**CURVE**

264 0 4 K1332 C Gr2 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

264 4 12 K1333 C Group2Y0Posit. V n/a
**CURVE**

266 0 4 K1334 CGroup2ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

266 4 12 K1335 C Group2 X Size V n/a
**CURVE**

268 0 4 K1336 CGroup2ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

268 4 12 K1337 C Group2 Y Size V n/a
**CURVE**

270 0 4 K1338 CGroup3SeqNumber V n/a
**CURVE**

270 4 12 K1339 C Group3 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

272 0 4 K1340 C Gr3 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

272 4 12 K1341 C Group3X0Posit. V n/a
**CURVE**

274 0 4 K1342 C Gr3 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

274 4 12 K1343 C Group3Y0Posit. V n/a
**CURVE**

276 0 4 K1344 CGroup3ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

276 4 12 K1345 C Group3 X Size V n/a
**CURVE**

278 0 4 K1346 CGroup3ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

278 4 12 K1347 C Group3 Y Size V n/a
**CURVE**

280 0 4 K1348 CGroup4SeqNumber V n/a
**CURVE**

280 4 12 K1349 C Group4 IntTime V sec
**CURVE** Eng value [s] = Binary value * 0.1

282 0 4 K1350 C Gr4 FrstCyDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

282 4 12 K1351 C Group4X0Posit. V n/a
**CURVE**

284 0 4 K1352 C Gr4 FrstCyDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

284 4 12 K1353 C Group4Y0Posit. V n/a
**CURVE**

286 0 4 K1354 CGroup4ReaOuDel1 V sec
**CURVE** Eng value [s] = Binary value * 0.1

286 4 12 K1355 C Group4 X Size V n/a
**CURVE**

288 0 4 K1356 CGroup4ReaOuDel2 V sec
**CURVE** Eng value [s] = Binary value * 0.1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 288 | 4 | 12 | K1357 | C Group4 Y Size | V | n/a | |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 0 | 2 | K1358 | CEDU0OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 2 | 2 | K1359 | CEDU0ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 4 | 3 | K1360 | CEDU0Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 7 | 3 | K1361 | CEDU0Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 291 | 2 | 3 | K1362 | CEDU0TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 291 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 0 | 2 | K1363 | CEDU1OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 2 | 2 | K1364 | CEDU1ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 4 | 3 | K1365 | CEDU1Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 292 | 7 | 3 | K1366 | CEDU1Node1TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 293 | 2 | 3 | K1367 | CEDU1TabPattMask | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 293 | 5 | 3 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 0 | 2 | K1368 | CEDU2OperatioMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Stop |
| 1 | Run |
| 2 | Alternate |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 2 | 2 | K1369 | CEDU2ScientifMod | V | n/a | |

**RAW MEANING**

| | |
|---|---|
| 0 | Transparent |
| 1 | Timing |
| 2 | Threshold |
| 3 | Image |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 4 | 3 | K1370 | CEDU2Node0TabOff | V | n/a | |

**RAW MEANING**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 294 | 7 | 3 | K1371 | CEDU2Node1TabOff | V | n/a | |

**RAW MEANING**

295 2 3 K1372 CEDU2TabPattMask V n/a
**RAW MEANING**

295 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

296 0 2 K1373 CEDU3OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

296 2 2 K1374 CEDU3ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

296 4 3 K1375 CEDU3Node0TabOff V n/a
**RAW MEANING**

296 7 3 K1376 CEDU3Node1TabOff V n/a
**RAW MEANING**

297 2 3 K1377 CEDU3TabPattMask V n/a
**RAW MEANING**

297 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

298 0 2 K1378 CEDU4OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

298 2 2 K1379 CEDU4ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

298 4 3 K1380 CEDU4Node0TabOff V n/a
**RAW MEANING**

298 7 3 K1381 CEDU4Node1TabOff V n/a
**RAW MEANING**

299 2 3 K1382 CEDU4TabPattMask V n/a
**RAW MEANING**

299 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

300 0 2 K1383 CEDU5OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

300 2 2 K1384 CEDU5ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

300 4 3 K1385 CEDU5Node0TabOff V n/a
**RAW MEANING**

300 7 3 K1386 CEDU5Node1TabOff V n/a
**RAW MEANING**

301 2 3 K1387 CEDU5TabPattMask V n/a
**RAW MEANING**

301 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

302 0 2 K1388 CEDU6OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

302 2 2 K1389 CEDU6ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

302 4 3 K1390 CEDU6Node0TabOff V n/a
**RAW MEANING**

302 7 3 K1391 CEDU6Node1TabOff V n/a
**RAW MEANING**

303 2 3 K1392 CEDU6TabPattMask V n/a
**RAW MEANING**

303 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

304 0 2 K1393 CEDU7OperatioMod V n/a
**RAW MEANING**
0 Stop
1 Run
2 Alternate

304 2 2 K1394 CEDU7ScientifMod V n/a
**RAW MEANING**
0 Transparent
1 Timing
2 Threshold
3 Image

304 4 3 K1395 CEDU7Node0TabOff V n/a
**RAW MEANING**

304 7 3 K1396 CEDU7Node1TabOff V n/a
**RAW MEANING**

305 2 3 K1397 CEDU7TabPattMask V n/a
**RAW MEANING**

305 5 3 FIX Fix bit pattern F n/a 0
**CURVE**

306 0 16 K1398 C EDU0Node0Thres V n/a
**CURVE**

308 0 16 K1399 C EDU0Node1Thres V n/a
**CURVE**

310 0 16 K1400 C EDU1Node0Thres V n/a
**CURVE**

312 0 16 K1401 C EDU1Node1Thres V n/a
**CURVE**

314 0 16 K1402 C EDU2Node0Thres V n/a
**CURVE**

316 0 16 K1403 C EDU2Node1Thres V n/a
**CURVE**

318 0 16 K1404 C EDU3Node0Thres V n/a
**CURVE**

320 0 16 K1405 C EDU3Node1Thres V n/a
**CURVE**

322 0 16 K1406 C EDU4Node0Thres V n/a
**CURVE**

324 0 16 K1407 C EDU4Node1Thres V n/a
**CURVE**

326 0 16 K1408 C EDU5Node0Thres V n/a
**CURVE**

328 0 16 K1409 C EDU5Node1Thres V n/a
**CURVE**

330 0 16 K1410 C EDU6Node0Thres V n/a
**CURVE**

332 0 16 K1411 C EDU6Node1Thres V n/a
**CURVE**

334 0 16 K1412 C EDU7Node0Thres V n/a
**CURVE**

336 0 16 K1413 C EDU7Node1Thres V n/a
**CURVE**

338 0 4 K1414 C Selected EDU V n/a
**CURVE**

338 4 12 K1415 CTestImageHighEn V n/a
**CURVE**

340 0 1 K1416 C TestConfigType V n/a
**RAW MEANING**
0 Loaded Image
1 Built Image

340 1 3 K1417 CTstConfigPatter V n/a
**RAW MEANING**

340 4 12 K1418 C TestImageLowEn V n/a
**CURVE**

342 0 1 K1419 C AnnDriveStatus V n/a
**RAW MEANING**
0 OFF
1 ON

342 1 2 K1420 C FW OpConfMotor V n/a
**RAW MEANING**
0 Both ON

1 Nominal ON
2 Redundant ON

342 3 1 K1421 C FWOpConfRotDir V n/a
**RAW MEANING**
0 Forward
1 Backward

342 4 1 K1422 CFWOpConfRotMode V n/a
**RAW MEANING**
0 Normal
1 Step

342 5 11 K1423 CFWOpConfReqPosS V n/a
**CURVE**

344 0 8 K1424 CAnn.Min.Tem.Set V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

345 0 8 K1425 CAnn.Max.Tem.Set V degC
**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

346 0 3 FIX Fix bit pattern F n/a 0
**CURVE**

346 3 1 K1426 CFWStatusTimeOut V n/a
**RAW MEANING**
0 NoTimeoutErr
1 TimeoutError

346 4 1 K1427 C FWStatusPosErr V n/a
**RAW MEANING**
0 In Position
1 Out Position

346 5 11 K1428 CFWStatusEMReqSt V n/a
**CURVE**

348 0 8 K1429 C Rej DH Cm Cnt V n/a
**CURVE**

349 0 8 K1430 C Last Ac DH Com V n/a
**CURVE**

350 0 8 K1431 C EDU Cm OK Cnt V n/a
**CURVE**

351 0 8 K1432 C EDU Cm Rec Cnt V n/a
**CURVE**

352 0 8 K1433 C EDU Cm Rej Cnt V n/a
**CURVE**

353 0 8 K1434 C EDUTabLoaOKCnt V n/a
**CURVE**

354 0 8 K1435 CEDUTabLoaRecCnt V n/a
**CURVE**

355 0 8 K1436 CEDUTabLoaRejCnt V n/a
**CURVE**

356 0 8 K1437 C FIFOEDUCmRej16 V n/a
**CURVE**

357 0 8 K1438 C FIFOEDUCmRej15 V n/a
**CURVE**

| | | | | | | |
|---|---|---|---|---|---|---|
| 358 | 0 | 8 | K1439 | C FIFOEDUCmRej14 | V | n/a |
| **CURVE** | | | | | | |
| 359 | 0 | 8 | K1440 | C FIFOEDUCmRej13 | V | n/a |
| **CURVE** | | | | | | |
| 360 | 0 | 8 | K1441 | C FIFOEDUCmRej12 | V | n/a |
| **CURVE** | | | | | | |
| 361 | 0 | 8 | K1442 | C FIFOEDUCmRej11 | V | n/a |
| **CURVE** | | | | | | |
| 362 | 0 | 8 | K1443 | C FIFOEDUCmRej10 | V | n/a |
| **CURVE** | | | | | | |
| 363 | 0 | 8 | K1444 | C FIFOEDUCmRej9 | V | n/a |
| **CURVE** | | | | | | |
| 364 | 0 | 8 | K1445 | C FIFOEDUCmRej8 | V | n/a |
| **CURVE** | | | | | | |
| 365 | 0 | 8 | K1446 | C FIFOEDUCmRej7 | V | n/a |
| **CURVE** | | | | | | |
| 366 | 0 | 8 | K1447 | C FIFOEDUCmRej6 | V | n/a |
| **CURVE** | | | | | | |
| 367 | 0 | 8 | K1448 | C FIFOEDUCmRej5 | V | n/a |
| **CURVE** | | | | | | |
| 368 | 0 | 8 | K1449 | C FIFOEDUCmRej4 | V | n/a |
| **CURVE** | | | | | | |
| 369 | 0 | 8 | K1450 | C FIFOEDUCmRej3 | V | n/a |
| **CURVE** | | | | | | |
| 370 | 0 | 8 | K1451 | C FIFOEDUCmRej2 | V | n/a |
| **CURVE** | | | | | | |
| 371 | 0 | 8 | K1452 | C FIFOEDUCmRej1 | V | n/a |
| **CURVE** | | | | | | |
| 372 | 0 | 8 | K1453 | C EMAE Cm OK Cnt | V | n/a |
| **CURVE** | | | | | | |
| 373 | 0 | 8 | K1454 | CEMAE Cm Rec Cnt | V | n/a |
| **CURVE** | | | | | | |
| 374 | 0 | 8 | K1455 | CEMAE Cm Rej Cnt | V | n/a |
| **CURVE** | | | | | | |
| 375 | 0 | 8 | K1456 | CEMAESeqLoaOKCnt | V | n/a |
| **CURVE** | | | | | | |
| 376 | 0 | 8 | K1457 | CEMAESeqLdRecCnt | V | n/a |
| **CURVE** | | | | | | |
| 377 | 0 | 8 | K1458 | CEMAESeqLdRejCnt | V | n/a |
| **CURVE** | | | | | | |
| 378 | 0 | 8 | K1459 | CFIFOEMAECmRej16 | V | n/a |
| **CURVE** | | | | | | |
| 379 | 0 | 8 | K1460 | CFIFOEMAECmRej15 | V | n/a |
| **CURVE** | | | | | | |

380 0 8 K1461 CFIFOEMAECmRej14 V n/a
**CURVE**

381 0 8 K1462 CFIFOEMAECmRej13 V n/a
**CURVE**

382 0 8 K1463 CFIFOEMAECmRej12 V n/a
**CURVE**

383 0 8 K1464 CFIFOEMAECmRej11 V n/a
**CURVE**

384 0 8 K1465 CFIFOEMAECmRej10 V n/a
**CURVE**

385 0 8 K1466 CFIFOEMAECmRej9 V n/a
**CURVE**

386 0 8 K1467 CFIFOEMAECmRej8 V n/a
**CURVE**

387 0 8 K1468 CFIFOEMAECmRej7 V n/a
**CURVE**

388 0 8 K1469 CFIFOEMAECmRej6 V n/a
**CURVE**

389 0 8 K1470 CFIFOEMAECmRej5 V n/a
**CURVE**

390 0 8 K1471 CFIFOEMAECmRej4 V n/a
**CURVE**

391 0 8 K1472 CFIFOEMAECmRej3 V n/a
**CURVE**

392 0 8 K1473 CFIFOEMAECmRej2 V n/a
**CURVE**

393 0 8 K1474 CFIFOEMAECmRej1 V n/a
**CURVE**

394 0 8 K1475 C BootS/Wversion V n/a
**CURVE**

395 0 8 K1476 C RAM SW version V n/a
**CURVE**

396 0 1 K1477 C PW ON Test RAM V n/a
**RAW MEANING**
0 Failed
1 Passed

396 1 1 K1478 CPWONTestROMBoot V n/a
**RAW MEANING**
0 Failed
1 Passed

396 2 1 K1479 CPWONTestROMProg V n/a
**RAW MEANING**
0 Failed
1 Passed

396 3 1 K1480 CPWONTestRAMProg V n/a
**RAW MEANING**
0 Failed
1 Passed

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 396 | 4 | 4 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 0 | 1 | K1628 | C Group 4 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 1 | 1 | K1627 | C Group 3 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 2 | 1 | K1626 | C Group 2 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 3 | 1 | K1481 | C Group 1 EITF | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Occured |
| 1 | Occured |

| | | | | | | |
|---|---|---|---|---|---|---|
| 397 | 4 | 4 | K1482 | C Operating Mode | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Initializat. |
| 1 | Stand-By |
| 2 | Observation |
| 3 | Test |
| 4 | Annealing |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40012* | *1664* | *HBR Fifo Full* | *4* | *3* | *115* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0343***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***73//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *115* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 16 | K1486 | HBR Identifier | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40014* | *1664* | *Therm. Control Alarm* | *4* | *3* | *127* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0343***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***7F//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *127* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | K1308 | HFPlaneExtRanTem | V | degC | | | | | | |

**CURVE** Eng. Value [°C] = (Binary Value * 1.668) - 223.6

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 8 | K1712 | AnnealSwitchStat | V | n/a | | | | | | |

| RAW | MEANING |
|---|---|
| 0 | Open |
| 1 | Closed |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | 0 | 8 | K1713 | SecondShroudStat | V | n/a | | | | | | |

| RAW | MEANING |
|---|---|
| 0 | Open |
| 1 | Closed |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40015* | *1664* | *FW Not Closed Report* | *4* | *2* | *82* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0342***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***52//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 16 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 1 | K1254 | H FW NominalStop | V | n/a | | | | | |

| RAW | MEANING |
|---|---|
| 0 | In Position |
| 1 | Out Position |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 1 | 2 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 3 | 3 | K1257 | H FW Position | V | n/a | | | | | |

| RAW | MEANING |
|---|---|
| 0 | Open |
| 1 | Filter D |
| 2 | Filter C |
| 3 | Filter B |
| 4 | Filter A |
| 5 | Closed |
| 6 | IllegalValue |
| 7 | Not Valid CS |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 6 | 1 | K1258 | H FW Redund Stop | V | n/a | | | | | |

| RAW | MEANING |
|---|---|
| 0 | In Position |
| 1 | Out Position |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 7 | 1 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40017* | *1664* | *HBR7 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *137* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF89***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *137* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1487 | HBR7 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40018* | *1664* | *HBR8 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *138* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF8A***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *138* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1488 | HBR8 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40019* | *1664* | *HBR Configuration* | *5* | *4* | *N/A* | *255* | *128* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *128* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 0 | 1 | K1496 | HBR 8 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 1 | 1 | K1495 | HBR 7 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 2 | 1 | K1494 | HBR 6 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 3 | 1 | K1493 | HBR 5 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 4 | 1 | K1492 | HBR 4 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 5 | 1 | K1491 | HBR 3 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 17 | 6 | 1 | K1490 | HBR 2 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |

1 Active

| | | | | | | |
|---|---|---|---|---|---|---|
| 17 | 7 | 1 | K1489 | HBR 1 Active | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Not Active |
| 1 | Active |

| | | | | | | |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1497 | HBR 1 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1498 | HBR 2 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1499 | HBR 3 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1500 | HBR 4 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1501 | HBR 5 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |

| | |
|---|---|
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 28 | 0 | 16 | K1502 | HBR 6 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 30 | 0 | 16 | K1503 | HBR 7 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| | | | | | | |
|---|---|---|---|---|---|---|
| 32 | 0 | 16 | K1504 | HBR 8 Processing | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Disabled |
| 1 | Imag. Proc. |
| 2 | Imag.N.Proc. |
| 3 | Imag.R.Proc. |
| 4 | Imag.R.N.Pr. |
| 5 | EDU Thresh. |
| 6 | Tim. Proces. |
| 7 | Tim.N.Proce. |
| 8 | Tim.C.Proce. |
| 9 | Tim.C.N.Pro. |
| 10 | Transparent |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40020* | *1664* | ***HBR Buffer Size*** | *5* | *4* | *N/A* | *255* | *129* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF81***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *129* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 32 | K1505 | HBR1BufferStartA | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 20 | 0 | 32 | K1506 | HBR1BufferEndAdd | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 24 | 0 | 32 | K1507 | HBR2BufferStartA | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 28 | 0 | 32 | K1508 | HBR2BufferEndAdd | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 32 | 0 | 32 | K1509 | HBR3BufferStartA | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 36 | 0 | 32 | K1510 | HBR3BufferEndAdd | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 40 | 0 | 32 | K1511 | HBR4BufferStartA | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 44 | 0 | 32 | K1512 | HBR4BufferEndAdd | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 48 | 0 | 32 | K1513 | HBR5BufferStartA | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 52 | 0 | 32 | K1514 | HBR5BufferEndAdd | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 56 | 0 | 32 | K1515 | HBR6BufferStartA | V | n/a |
| **CURVE** | | | | | | |
| 60 | 0 | 32 | K1516 | HBR6BufferEndAdd | V | n/a |
| **CURVE** | | | | | | |
| 64 | 0 | 32 | K1517 | HBR7BufferStartA | V | n/a |
| **CURVE** | | | | | | |
| 68 | 0 | 32 | K1518 | HBR7BufferEndAdd | V | n/a |
| **CURVE** | | | | | | |
| 72 | 0 | 32 | K1519 | HBR8BufferStartA | V | n/a |
| **CURVE** | | | | | | |
| 76 | 0 | 32 | K1520 | HBR8BufferEndAdd | V | n/a |
| **CURVE** | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40021* | *1664* | *HBR 1 BPT* | *5* | *4* | *N/A* | *255* | *131* | *N/A* | *N/A* |

### Offset Word 0: *8E80*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

### Offset Word 1: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

### Offset Word 2: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

### Offset Word 3: *0354*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

### Offset Word 4: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

### Offset Word 7: *FF83*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *131* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1521 | HBR1 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40022* | *1664* | *Threshold Values* | *5* | *4* | *N/A* | *255* | *130* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF82***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *130* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1522 | HBR1 Low Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 18 | 0 | 16 | K1523 | HBR1 Upp Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 20 | 0 | 16 | K1524 | HBR2 Low Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 22 | 0 | 16 | K1525 | HBR2 Upp Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 24 | 0 | 16 | K1526 | HBR3 Low Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 26 | 0 | 16 | K1527 | HBR3 Upp Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 28 | 0 | 16 | K1528 | HBR4 Low Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 30 | 0 | 16 | K1529 | HBR4 Upp Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 32 | 0 | 16 | K1530 | HBR5 Low Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 34 | 0 | 16 | K1531 | HBR5 Upp Thresh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 36 | 0 | 16 | K1532 | HBR6 Low Thresh | V | n/a |
| **CURVE** | | | | | | |
| 38 | 0 | 16 | K1533 | HBR6 Upp Thresh | V | n/a |
| **CURVE** | | | | | | |
| 40 | 0 | 16 | K1534 | HBR7 Low Thresh | V | n/a |
| **CURVE** | | | | | | |
| 42 | 0 | 16 | K1535 | HBR7 Upp Thresh | V | n/a |
| **CURVE** | | | | | | |
| 44 | 0 | 16 | K1536 | HBR8 Low Thresh | V | n/a |
| **CURVE** | | | | | | |
| 46 | 0 | 16 | K1537 | HBR8 Upp Thresh | V | n/a |
| **CURVE** | | | | | | |
| 48 | 0 | 16 | K1538 | FastPatternThres | V | n/a |
| **CURVE** | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40023* | *1664* | *Extraheating Config.* | *5* | *4* | *N/A* | *255* | *144* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF90***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *144* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 8 | K1539 | DeicinLowTempLim | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 1.668) - 223.6 | | | | | | | | | | | |
| 17 | 0 | 8 | K1540 | DeicinUppTempLim | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 1.668) - 223.6 | | | | | | | | | | | |
| 18 | 0 | 8 | K1541 | DeconLowTempLim | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 1.668) - 223.6 | | | | | | | | | | | |
| 19 | 0 | 8 | K1542 | DeconUppTempLim | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 1.668) - 223.6 | | | | | | | | | | | |
| 20 | 0 | 8 | K1543 | AnnealLowTempLim | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 1.668) - 223.6 | | | | | | | | | | | |
| 21 | 0 | 8 | K1544 | AnnealUppTempLim | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 1.668) - 223.6 | | | | | | | | | | | |
| 22 | 0 | 16 | K1545 | DeicinConfThCont | V | n/a | | | | | | |

| RAW | MEANING |
|---|---|
| 0 | OFF |
| 1 | ON |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1546 | DeicinConfShroud | V | n/a |

| RAW | MEANING |
|---|---|

0 OFF
1 ON

26 0 16 K1547 DeicinConfAnneal V n/a

**RAW MEANING**
0 OFF
1 ON

28 0 16 K1548 DecontConfThCont V n/a

**RAW MEANING**
0 OFF
1 ON

30 0 16 K1549 DecontConfShroud V n/a

**RAW MEANING**
0 OFF
1 ON

32 0 16 K1550 DecontConfAnneal V n/a

**RAW MEANING**
0 OFF
1 ON

34 0 16 K1551 AnnealConfThCont V n/a

**RAW MEANING**
0 OFF
1 ON

36 0 16 K1552 AnnealConfShroud V n/a

**RAW MEANING**
0 OFF
1 ON

38 0 16 K1553 AnnealConfAnneal V n/a

**RAW MEANING**
0 OFF
1 ON

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40024* | *1664* | *Therm. Monit. Limits* | *5* | *4* | *N/A* | *255* | *160* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FFA0***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *160* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 8 | K1554 | UppMonTempLimits | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 0.357) - 159 | | | | | | | | | | | |
| 17 | 0 | 8 | K1555 | LowMonTempLimits | V | degC | | | | | | |
| **CURVE** | Eng. Value [°C] = (Binary Value * 0.357) - 159 | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40025* | *1664* | *EMDH Memory Dump* | *6* | *2* | *N/A* | *N/A* | *N/A* | *0* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0362***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *6* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0000***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | MID | F | *0* |

**Offset Word 8:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 32 | Start Address | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40026* | *1664* | *EMDH Table Dump* | *6* | *2* | *N/A* | *N/A* | *N/A* | *1* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0362***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *6* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0001***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | MID | F | *1* |

**Offset Word 8:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 32 | Start Address | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40027* | *1664* | *EMCR Memory Dump* | *6* | *2* | *N/A* | *N/A* | *N/A* | *16* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0362***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *6* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0010***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | MID | F | *16* |

**Offset Word 8:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 32 | Start Address | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40031* | *1664* | *EMDH Memory Checksum* | *6* | *3* | *N/A* | *N/A* | *N/A* | *0* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0363***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *6* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0000***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | MID | F | *0* |

**Offset Word 8:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 32 | Start Address | V | *X* |

**Offset Word 10:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Memory Length | V | *X* |

**Offset Word 11:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Checksum Result | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40032* | *1664* | *EMCR Memory Checksum* | *6* | *3* | *N/A* | *N/A* | *N/A* | *16* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0363***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *6* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***0010***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | MID | F | *16* |

**Offset Word 8:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 32 | Start Address | V | *X* |

**Offset Word 10:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Memory Length | V | *X* |

**Offset Word 11:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Checksum Result | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

CURVE

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40033* | *1664* | *TM Generation Status* | *9* | *1* | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0391***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *9* |
| 12 | 4 | Packet Subtype | F | *1* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | V | *X* |
| 8 | 8 | Status of TM packet | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40034* | *1664* | *Time Verific. Report* | *10* | *5* | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03A5***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *10* |
| 12 | 4 | Packet Subtype | F | *5* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC | MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40035* | *1664* | *Imaging Data* | *15* | *1* | *1* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 4:** ***0100***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *1* |
| 8 | 8 | Spare | F | 0 |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F1***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *1* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40036* | *1664* | *Imaging Reduced Data* | *15* | *1* | *2* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 4:** ***0200***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *2* |
| 8 | 8 | Spare | F | 0 |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F1***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *1* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40037* | *1664* | *Timing Data* | *15* | *2* | *3* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F2***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***0300***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *3* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40038* | *1664* | *Timing Compres. Data* | *15* | *2* | *4* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 4:** ***0400***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *4* |
| 8 | 8 | Spare | F | 0 |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F2***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *2* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40039* | *1664* | *Diagnostic Data* | *15* | *3* | *5* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 4:** ***0500***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *5* |
| 8 | 8 | Spare | F | 0 |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F3***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *3* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40040* | *1664* | *Offset/Variance Data* | *15* | *4* | *6* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F4***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***0600***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *6* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND | CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40041* | *1664* | *HBR2 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *132* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF84***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *132* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1556 | HBR2 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40042* | *1664* | *HBR3 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *133* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF85***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *133* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1557 | HBR3 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40043* | *1664* | *HBR4 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *134* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF86***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *134* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1558 | HBR4 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40044* | *1664* | *HBR5 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *135* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF87***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *135* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1559 | HBR5 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40045* | *1664* | *HBR6 Bright Pixel T.* | *5* | *4* | *N/A* | *255* | *136* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0354***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *5* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***FF88***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | TID | F | *255* |
| 8 | 8 | FID | F | *136* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1560 | HBR6 Bright P.N. | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 214 | 0 | 32 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40046* | *1664* | *Imaging Coun. Fr. R.* | *15* | *4* | *7* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 4:** ***0700***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *7* |
| 8 | 8 | Spare | F | 0 |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F4***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *4* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 10 | 0 | 16 | K1486 | HBR Identifier | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 12 | 0 | 16 | K1561 | IC Valid Events | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 14 | 0 | 16 | K1562 | ICRejEventsLowTh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 16 | K1563 | ICRejEventsUppTh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 18 | 0 | 16 | K1564 | ICRejectedFrames | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 20 | 0 | 48 | K1565 | ICountModeStartT | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 26 | 0 | 48 | K1566 | ICountModeStopT | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40047* | *1664* | *Timing Coun. Fra. R.* | *15* | *4* | *8* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 4:** ***0800***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *8* |
| 8 | 8 | Spare | F | 0 |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | V | *X* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***03F4***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *15* |
| 12 | 4 | Packet Subtype | F | *4* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |
| **CURVE** | | | | | | | | | | | |
| 10 | 0 | 16 | K1486 | HBR Identifier | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 12 | 0 | 16 | K1567 | TC Valid Events | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 14 | 0 | 16 | K1568 | TCRejEventsLowTh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 16 | 0 | 16 | K1569 | TCRejEventsUppTh | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 18 | 0 | 16 | K1570 | TCRejectedFrames | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 20 | 0 | 48 | K1571 | TCountModeStartT | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |
| 26 | 0 | 48 | K1572 | TCountModeStopT | V | n/a | | | | | |
| **CURVE** | | | | | | | | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40048* | *1664* | *UnsuccSwitchOpening* | *4* | *3* | *125* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0343***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***7D//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | *125* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1711 | SwitchIdentifier | V | n/a | | | | | |

| RAW | MEANING |
|---|---|
| 2560 | Door |
| 2816 | VentingValve |
| 3072 | Annealing |
| 3328 | SecondShroud |
| 3584 | FW Coil 1 |
| 3840 | FW Coil 2 |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40049* | *1664* | *CurrentLimiterActiv* | *4* | *3* | *126* | *N/A* | *N/A* | *N/A* | *N/A* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0343***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *4* |
| 12 | 4 | Packet Subtype | F | *3* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***7E//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | SID | F | |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 0 | 16 | K1711 | SwitchIdentifier | V | n/a | | | | | |

| RAW | MEANING |
|---|---|
| 2560 | Door |
| 2816 | VentingValve |
| 3072 | Annealing |
| 3328 | SecondShroud |
| 3584 | FW Coil 1 |
| 3840 | FW Coil 2 |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40103* | *1664* | *UnsComAc-IncorrecCHK* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *1* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0100***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *1* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40104* | *1664* | *UnsComEx-MemoryError* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *131* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***83//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *131* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40203* | *1664* | *UnsComAc-IllegalTYPE* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *2* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0200***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *2* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40204* | *1664* | *UnsComEx-EMDH Lcfull* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *132* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***84//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *132* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40303* | *1664* | *UnsComAc-IllegalSTYP* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *3* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0300***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *3* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40304* | *1664* | *UnsComEx-OtherMemory* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *133* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***85//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *133* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40403* | *1664* | *UnsComAc-IllegLength* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *5* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0500***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *5* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40404* | *1664* | *UnsComEx-GenericErr* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *134* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***86//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *134* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40503* | *1664* | *UnsComAc-Illegal TID* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *8* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0800***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *8* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40504* | *1664* | *UnsComEx-HazardousTC* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *135* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***87//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *135* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40603* | *1664* | *UnsComAc-Illegal FID* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *9* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0900***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *9* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40604* | *1664* | *UnsComEx-PeriodicPro* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *136* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***88//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *136* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40703* | *1664* | *UnsComAc-IllegalMODE* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *10* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0A00***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *10* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40704* | *1664* | *UnsComEx-LBR ProtErr* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *238* |

### Offset Word 0: *8E80*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

### Offset Word 1: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

### Offset Word 2: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

### Offset Word 3: *0334*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

### Offset Word 4: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

### Offset Word 7: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

### Offset Word 8: *EE//*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *238* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | K1637 | LBRProtocolError | V | n/a | | | | | |

| RAW | MEANING |
|---|---|
| 51 | 4FailedAttem |
| 68 | LCBootPrgDis |
| 85 | LC CTRRAMDis |
| 102 | IllegLC code |
| 119 | LCcurrCTRdis |
| 136 | LCparaOutRan |
| 153 | LCexecFailed |
| 170 | OtherLC/Leng |
| 250 | NoEMCRrespon |
| 251 | Other Errors |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40803* | *1664* | *UnsComAc-Illegal MID* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *11* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***0B00***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *11* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40804* | *1664* | *UnsComEx-WrongO/Vpar* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *94* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***5E//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *94* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *40903* | *1664* | *UnsComAc-IncorHeader* | *3* | *2* | *N/A* | *N/A* | *N/A* | *N/A* | *129* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0332***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *2* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***8100***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *129* |
| 8 | 8 | Spare | F | 0 |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND CURVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41004* | *1664* | *UnsComEx-TranRefused* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *240* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F0//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *240* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1638 | Refusal Reason | V | n/a |

| RAW | MEANING |
|---|---|
| 1 | AutTransRun |
| 2 | NotAllowTra |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41104* | *1664* | *UnsComEx-SafeToIdle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *241* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F1//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *241* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1639 | LoadInitprocIdle | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1640 | UnloadInitprIdle | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41204* | *1664* | *UnsComEx-ObserToIdle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *242* |

### Offset Word 0: *8E80*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

### Offset Word 1: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

### Offset Word 2: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

### Offset Word 3: *0334*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

### Offset Word 4: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

### Offset Word 7: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

### Offset Word 8: *F2//*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *242* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1641 | LoadExitPrimeFas | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1642 | UnloadExPrimeFas | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1643 | UnloadPrimeFasPr | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1644 | UnloadUpdateHKpr | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1645 | Cmd Stop OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41304* | *1664* | *UnsComEx-DiagnToIdle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *243* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F3//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *243* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1646 | LoadExitDiagProc | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1647 | UnloadExitDiagPr | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1645 | Cmd Stop OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1648 | UnloadDiagProc | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41404* | *1664* | *UnsComEx-Of/VaToIdle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *244* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F4//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *244* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1649 | LoadExitOVproces | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1650 | UnloadExitOVproc | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1645 | Cmd Stop OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1651 | Unload OV proces | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41504* | *1664* | *UnsComEx-ExHeaToIdle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *245* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F5//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *245* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1652 | LoadExitExtrhPro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1653 | UnloadExitExtrah | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1654 | CmdStopEMCRTemCt | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |
| 2 | Not required |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1655 | CmdSetEMAEctrlOn | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41604* | *1664* | *UnsComEx-IFT To Idle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *246* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F6//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *246* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1656 | LoadExitIftProc | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1657 | UnloadExitIftPro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1643 | UnloadPrimeFasPr | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1644 | UnloadUpdateHKpr | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1658 | IFT Submode | V | n/a |

| RAW | MEANING |
|---|---|
| 1 | ift_emdh |
| 2 | ift_emcs |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41704* | *1664* | *UnsComEx-Any To Safe* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *247* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F7//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *247* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1659 | LoadInitProcSafe | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1660 | UnloadInitPrSafe | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1655 | CmdSetEMAEctrlOn | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1654 | CmdStopEMCRTemCt | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |
| 2 | Not required |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1661 | CmdSetFPmainCtrl | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 28 | 0 | 16 | K1662 | FWpositionClosed | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Closed |
| 1 | NotClosed/Un |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 30 | 0 | 16 | K1663 | UnlockSafeEmerge | V | n/a |

| RAW | MEANING |
|---|---|

0 OK
1 Not OK

32 0 16 K1664 LockSafeEmergenc V n/a

**RAW MEANING**
0 OK
1 Not OK

34 0 16 K1665 OutcomingSWmode V n/a

**CURVE**

36 0 16 K1666 EMDHSWinSafeMode V n/a

**RAW MEANING**
0 False
1 True

38 0 16 K1667 Transition Abort V n/a

**RAW MEANING**
0 OK
1 Not OK
2 Not required

40 0 16 K1645 Cmd Stop OBS V n/a

**RAW MEANING**
0 OK
1 Not OK

42 0 16 K1668 UnloadScientProc V n/a

**RAW MEANING**
0 OK
1 Not OK

44 0 16 K1669 UnloadUpdateHKpr V n/a

**RAW MEANING**
0 OK
1 Not OK

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41804* | *1664* | *UnsComEx-IdleToSafe* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *248* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F8//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *248* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1659 | LoadInitProcSafe | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1660 | UnloadInitPrSafe | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1655 | CmdSetEMAEctrlOn | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1654 | CmdStopEMCRTemCt | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |
| 2 | Not required |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1661 | CmdSetFPmainCtrl | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 28 | 0 | 16 | K1662 | FWpositionClosed | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | Closed |
| 1 | NotClosed/Un |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *41904* | *1664* | *UnsComEx-IdleToIdle* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *249* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***F9//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *249* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1639 | LoadInitprocIdle | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1640 | UnloadInitprIdle | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *42004* | *1664* | *UnsComEx-IdleToPrime* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *250* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***FA//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *250* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1670 | LoadInitprPriFas | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1671 | UnloadInitPriFas | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1672 | LoadPrimeFastPro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1673 | LoadUpdateHKcoun | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1674 | Cmd Start OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *42104* | *1664* | *UnsComEx-IdleToFast* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *251* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***FB//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *251* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1670 | LoadInitprPriFas | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1671 | UnloadInitPriFas | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1672 | LoadPrimeFastPro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1673 | LoadUpdateHKcoun | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1674 | Cmd Start OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *42204* | *1664* | *UnsComEx-IdleToDiagn* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *252* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***FC//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *252* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1675 | LoadDiagProcess | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1676 | ExpectedPixelNum | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1677 | HBR Config Error | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1674 | Cmd Start OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1678 | ReturnToIdleErro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | False |
| 1 | True |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 28 | 0 | 16 | K1648 | UnloadDiagProc | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 30 | 0 | 16 | K1679 | LoadInitDiagProc | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Not OK | | | | | |
| 32 | 0 | 16 | K1680 | UnloadIniDiagPro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *42304* | *1664* | *UnsComEx-IdleToOf/Va* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *253* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***FD//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *253* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1681 | LoadOffVarProces | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1677 | HBR Config Error | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1674 | Cmd Start OBS | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1678 | ReturnToIdleErro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | False |
| 1 | True |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1651 | Unload OV proces | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 28 | 0 | 16 | K1682 | LoadInitprocOfVa | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 30 | 0 | 16 | K1683 | UnloadInitprocOV | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |

1 Not OK

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *42404* | *1664* | *UnsComEx-IdleToExHea* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *254* |

**Offset Word 0:** ***8E80***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

**Offset Word 1:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

**Offset Word 2:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

**Offset Word 3:** ***0334***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

**Offset Word 4:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

**Offset Word 7:** ***variable***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

**Offset Word 8:** ***FE//***

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *254* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1684 | Door Open Status | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | True |
| 1 | False |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE |
|---|---|---|---|---|---|---|---|
| 20 | 0 | 16 | FIX | Fix bit pattern | F | n/a | 0 |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1685 | CCDs in off | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | True |
| 1 | False |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1686 | FPTempBelowSafTh | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | False |
| 1 | True |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1678 | ReturnToIdleErro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | False |
| 1 | True |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 28 | 0 | 16 | K1687 | CmdEMAE Ctrl Off | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |
| 2 | Not required |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 30 | 0 | 16 | K1688 | CmdStartEMCRtemp | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |

1 Not OK
2 Not required

32 0 16 K1689 FW position Open V n/a

**RAW MEANING**
0 Open
1 NotOpen/Un

34 0 16 K1690 LoadInitprExtrah V n/a

**RAW MEANING**
0 OK
1 Not OK

36 0 16 K1691 UnloadInitprExtr V n/a

**RAW MEANING**
0 OK
1 Not OK

| TPN | APID | NAME | TYPE | SUBTYPE | SID | TID | FID | MID | ERROR CODE |
|---|---|---|---|---|---|---|---|---|---|
| *42504* | *1664* | *UnsComEx-Idle To IFT* | *3* | *4* | *N/A* | *N/A* | *N/A* | *N/A* | *255* |

### Offset Word 0: *8E80*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 3 | Version Number | F | 4 |
| 3 | 1 | Type | F | 0 |
| 4 | 1 | Data Field Header Flag | F | 1 |
| 5 | 11 | APID | F | *1664* |

### Offset Word 1: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 2 | Segmentation Flags | F | *3* |
| 2 | 14 | Source Sequence Count | V | *X* |

### Offset Word 2: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | Packet Length | V | *X* |

### Offset Word 3: *0334*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 6 | Spare | F | 0 |
| 6 | 2 | Checksum Flag | F | 3 |
| 8 | 4 | Packet Type | F | *3* |
| 12 | 4 | Packet Subtype | F | *4* |

### Offset Word 4: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 48 | Time | V | *X* |

### Offset Word 7: *variable*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 16 | TC Sequence Count | V | *X* |

### Offset Word 8: *FF//*

| Bit | Width | Name | F/V | Value |
|---|---|---|---|---|
| 0 | 8 | Error Code | F | *255* |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT | VALUE | MINVAL | MAXVAL | TC MFN | COND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 0 | 8 | FIX | Fix bit pattern | F | n/a | 0 | | | | |

**CURVE**

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 18 | 0 | 16 | K1692 | LoadInitprocIFT | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 20 | 0 | 16 | K1693 | UnloadInitprIFT | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 22 | 0 | 16 | K1672 | LoadPrimeFastPro | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 24 | 0 | 16 | K1673 | LoadUpdateHKcoun | V | n/a |

| RAW | MEANING |
|---|---|
| 0 | OK |
| 1 | Not OK |

| BYTE | BIT | WIDTH | PREF | NAME | F/V | UNIT |
|---|---|---|---|---|---|---|
| 26 | 0 | 16 | K1658 | IFT Submode | V | n/a |

| RAW | MEANING |
|---|---|
| 1 | ift_emdh |
| 2 | ift_emcs |