



NOTES:  
1.ELECTRICAL AND MECHANICAL PERFORMANCE SHALL MEET PCIe5.0 INDUSTRIAL STANDARD.  
2.MAIN LABEL: 25+/-5mm from 1016 housing  
PCIe 5/6 Test Only - UBM [1x16 MCIO to 1x16 MCIO]  
BROADCOM PART NUMBER  
BROADCOM REVISION XXX  
DATE CODE DD/MMM/YY  
SECONDARY MARKING WITH MANUFACTURER PART NUMBER AND REVISION ACCEPTABLE.

| 9    | LABEL     | LABEL, 40X14MM, WHITE, R2, HF   | A/R      |       |
|------|-----------|---|----------|-------|
| 8    | LABEL     | LABEL, 70X26MM, WHITE, R2, HF   | A/R      |       |
| 7    | TAPE      | ACETATE TAPE: W=1 INCH  | A/R      |       |
| 6    | SLEEVEING | EXPANDO TUBE: OD=7MM, GREEN, VW-I, HF   | A/R      |       |
| 5    | SLEEVEING | EXPANDO TUBE: OD=10MM, GREEN, VW-I, HF  | A/R      |       |
| 4    | WIRE      | UL1061, STRANDED  | A/R      |       |
| 3    | CABLE     | SAS CABLE: UL20744, 28~32AWG, 85Ω ±10% DIFF, PCIE GEN 5, SAS 4, VW-I, NATURAL, HF | A/R      |       |
| 2    | CONNECTOR | SFF-TA-1016, 124P, STRAIGHT, X8, PCIE GEN 6, NO SIDE FLANGE                       | 2        |       |
| 1    | CONNECTOR | SFF-TA-1016, 74P, STRAIGHT, X8, PCIE GEN 6, NO SIDE FLANGE                        | 1        |       |
| ITEM | CALLOUT   | DESCRIPTION   | QUANTITY | NOTES |

|                   |  |   |  |          |      |   |                |
|-------------------|--|---|--|----------|------|---|----------------|
| GENERAL TOLERANCE |  | ANGLE TOLERANCE   |  | DRAWN    | DATE |  <b>genesis</b><br>connected solutions |                |
| X.±               |  | X°±   |  |          |      | TITLE<br>CABLE, G6, SFF-TA-1016 x8 STR TO SFF-TA-1016 74p<br>2x8 STR, X4, 1.0M  |                |
| .X±0.20           |  | .X°±  |  | DESIGN   | DATE |   |                |
| .XX±0.10          |  | .XX°±   |  |          |      |   |                |
| .XXX±0.05         |  | .XXX°±  |  |          |      |   |                |
| MATL              |  |   |  | CHECKED  | DATE | PART NUMBER.  | 320-10808      |
| FINISH            |  |   |  |          |      |   |                |
| SCALE <i>N/A</i>  |  | UNIT <i>mm</i>  |  | APPROVED | DATE | DRAWING NO.   | SIZE <i>A4</i> |
| SHEET 1 OF 2      |  |  |  |          |      |   | REV. <i>X2</i> |

PIN ASSIGNMENT

| CONNECTOR | CONNECTOR SIGNAL        | PIN/PAD | Connection Type | CONNECTOR | PIN/PAD | CONNECTOR SIGNAL   | Connection Type        | NOTES |
|-----------|-------------------------|---------|-----------------|-----------|---------|--------------------|------------------------|-------|
| SO        | GND                     | A1      | Diff Shield     | P0        | B1      | GND                | Diff Shield, SAS Cable |       |
|           | PERp0/Rx0+              | A2      | Diff Pair       |           | B2      | PETp0/Tx0+         | Diff Pair, SAS Cable   |       |
|           | PERn0/Rx0-              | A3      |                 |           | B3      | PETn0/Tx0-         | Diff Pair, SAS Cable   |       |
|           | GND                     | A4      | Diff Shield     |           | B4      | GND                | Diff Shield, SAS Cable |       |
|           | PERp1/Rx1+              | A5      | Diff Pair       |           | B20     | PETp4/Tx4+         | Diff Pair, SAS Cable   |       |
|           | PERn1/Rx1-              | A6      |                 |           | B21     | PETn4/Tx4-         | Diff Pair, SAS Cable   |       |
|           | GND                     | A7      | Diff Shield     |           | B22     | GND                | Diff Shield, SAS Cable |       |
|           | FLEXIO9_A/BP_TYPEA      | A8      | <-              |           | B8      | SB7A/BP_TYPEA      | Sideband               | NOTE1 |
|           | FLEXIO0_A/2WIRE_RESETA# | A9      | ->              |           | B9      | SB4A/2WIRE_RESETA# | Sideband               | NOTE1 |
|           | GND/SB3A                | A10     | Diff Shield     |           | B10     | GND/SB3A           | Diff Shield, SAS Cable |       |
|           | RCLK_Ap/REFCLKA+        | A11     | Diff Pair       |           | B11     | REFCLKA+           | Diff Pair, SAS Cable   |       |
|           | RCLK_An/REFCLKA-        | A12     |                 |           | B12     | REFCLKA-           | Diff Pair, SAS Cable   |       |
|           | GND                     | A13     | Diff Shield     |           | B13     | GND                | Diff Shield, SAS Cable |       |
|           | PERp2/Rx2+              | A14     | Diff Pair       |           | B39     | PETp8/Tx8+         | Diff Pair, SAS Cable   |       |
|           | PERn2/Rx2-              | A15     |                 |           | B40     | PETn8/Tx8-         | Diff Pair, SAS Cable   |       |
|           | GND                     | A16     | Diff Shield     |           | B41     | GND                | Diff Shield, SAS Cable |       |
|           | PERp3/Rx3+              | A17     | Diff Pair       |           | B51     | PETp12/Tx12+       | Diff Pair, SAS Cable   |       |
|           | PERn3/Rx3-              | A18     |                 |           | B52     | PETn12/Tx12-       | Diff Pair, SAS Cable   |       |
|           | GND                     | A19     | Diff Shield     |           | B53     | GND                | Diff Shield, SAS Cable |       |
|           | PERp4/Rx4+              | A20     | Diff Pair       |           | B2      | PETp0/Tx0+         | Diff Pair, SAS Cable   |       |
|           | PERn4/Rx4-              | A21     |                 |           | B3      | PETn0/Tx0-         | Diff Pair, SAS Cable   |       |
|           | GND                     | A22     | Diff Shield     |           | B4      | GND                | Diff Shield, SAS Cable |       |
|           | PERp5/Rx5+              | A23     | Diff Pair       |           | B20     | PETp4/Tx4+         | Diff Pair, SAS Cable   |       |
|           | PERn5/Rx5-              | A24     |                 |           | B21     | PETn4/Tx4-         | Diff Pair, SAS Cable   |       |
|           | GND                     | A25     | Diff Shield     |           | B22     | GND                | Diff Shield, SAS Cable |       |
|           | FLEXIO1_A/BP_TYPEB      | A26     | <-              | P1        | B8      | SB7A/BP_TYPEA      | Sideband               |       |
|           | FLEXIO2_A/2WIRE_RESETB# | A27     | ->              |           | B9      | SB4A/2WIRE_RESETA# | Sideband               |       |
|           | GND/SB3B                | A28     | Diff Shield     |           | B10     | GND/SB3A           | Diff Shield, SAS Cable |       |
|           | FLEXIO7_A/REFCLKB+      | A29     | Diff Pair       |           | B11     | REFCLKA+           | Diff Pair, SAS Cable   |       |
|           | FLEXIO8_A/REFCLKB-      | A30     |                 |           | B12     | REFCLKA-           | Diff Pair, SAS Cable   |       |
|           | GND                     | A31     | Diff Shield     |           | B13     | GND                | Diff Shield, SAS Cable |       |
|           | PERp6/Rx6+              | A32     | Diff Pair       |           | B39     | PETp8/Tx8+         | Diff Pair, SAS Cable   |       |
|           | PERn6/Rx6-              | A33     |                 |           | B40     | PETn8/Tx8-         | Diff Pair, SAS Cable   |       |
|           | GND                     | A34     | Diff Shield     |           | B41     | GND                | Diff Shield, SAS Cable |       |
|           | PERp7/Rx7+              | A35     | Diff Pair       |           | B51     | PETp12/Tx12+       | Diff Pair, SAS Cable   |       |
|           | PERn7/Rx7-              | A36     |                 |           | B52     | PETn12/Tx12-       | Diff Pair, SAS Cable   |       |
|           | GND                     | A37     | Diff Shield     |           | B53     | GND                | Diff Shield, SAS Cable |       |

| CONNECTOR | CONNECTOR SIGNAL   | PIN/PAD | Connection Type | CONNECTOR | PIN/PAD | CONNECTOR SIGNAL  | Connection Type        | NOTES |
|-----------|--------------------|---------|-----------------|-----------|---------|-------------------|------------------------|-------|
| SO        | GND                | B1      | Diff Shield     | P0        | A1      | GND               | Diff Shield, SAS Cable |       |
|           | PETp0/Tx0+         | B2      | Diff Pair       |           | A2      | PERp0/Rx0+        | Diff Pair, SAS Cable   |       |
|           | PETn0/Tx0-         | B3      |                 |           | A3      | PERn0/Rx0-        | Diff Pair, SAS Cable   |       |
|           | GND                | B4      | Diff Shield     |           | A4      | GND               | Diff Shield, SAS Cable |       |
|           | PETp1/Tx1+         | B5      | Diff Pair       |           | A20     | PERp4/Rx4+        | Diff Pair, SAS Cable   |       |
|           | PETn1/Tx1-         | B6      |                 |           | A21     | PERn4/Rx4-        | Diff Pair, SAS Cable   |       |
|           | GND                | B7      | Diff Shield     |           | A22     | GND               | Diff Shield, SAS Cable |       |
|           | 2WCL_A/2W-CLKA     | B8      | ->              |           | A8      | 2WCL_A/2W-CLKA    | Sideband               | NOTE1 |
|           | 2WDA_A/2W-DATAA    | B9      | ->              |           | A9      | 2WDA_A/2W-DATAA   | Sideband               | NOTE1 |
|           | GND/SB2A           | B10     | Diff Shield     |           | A10     | GND/SB2A          | Diff Shield, SAS Cable |       |
|           | PERST_N_A/PERSTA#  | B11     | Diff Pair       |           | A11     | PERST_N_A/PERSTA# | Diff Pair, SAS Cable   |       |
|           | PRPE_A/CPRSNTA#    | B12     |                 |           | A12     | PRPE_A/CPRSNTA#   | Diff Pair, SAS Cable   |       |
|           | GND                | B13     | Diff Shield     |           | A19     | GND               | Diff Shield, SAS Cable |       |
|           | PETp2/Tx2+         | B14     | Diff Pair       |           | A39     | PERp8/Rx8+        | Diff Pair, SAS Cable   |       |
|           | PETn2/Tx2-         | B15     |                 |           | A40     | PERn8/Rx8-        | Diff Pair, SAS Cable   |       |
|           | GND                | B16     | Diff Shield     |           | A41     | GND               | Diff Shield, SAS Cable |       |
|           | PETp3/Tx3+         | B17     | Diff Pair       |           | A51     | PERp12/Rx12+      | Diff Shield, SAS Cable |       |
|           | PETn3/Tx3-         | B18     |                 |           | A52     | PERn12/Rx12-      | Diff Pair, SAS Cable   |       |
|           | GND                | B19     | Diff Shield     |           | A53     | GND               | Diff Pair, SAS Cable   |       |
|           | PETp4/Tx4+         | B20     | Diff Pair       |           | A2      | PERp0/Rx0+        | Diff Pair, SAS Cable   |       |
|           | PETn4/Tx4-         | B21     |                 |           | A3      | PERn0/Rx0-        | Diff Pair, SAS Cable   |       |
|           | GND                | B22     | Diff Shield     |           | A4      | GND               | Diff Shield, SAS Cable |       |
|           | PETp5/Tx5+         | B23     | Diff Pair       |           | A20     | PERp4/Rx4+        | Diff Pair, SAS Cable   |       |
|           | PETn5/Tx5-         | B24     |                 |           | A21     | PERn4/Rx4-        | Diff Pair, SAS Cable   |       |
|           | GND                | B25     | Diff Shield     |           | A22     | GND               | Diff Shield, SAS Cable |       |
|           | FLEXIO3_A/2W-CLKB  | B26     | ->              | P1        | A8      | 2WCL_A/2W-CLKA    | Sideband               |       |
|           | FLEXIO4_A/2W-DATAB | B27     | ->              |           | A9      | 2WDA_A/2W-DATAA   | Sideband               |       |
|           | GND/SB2B           | B28     | Diff Shield     |           | A10     | GND/SB2A          | Diff Shield, SAS Cable |       |
|           | FLEXIO5_A/PERSTB#  | B29     | Diff Pair       |           | A11     | PERST_N_A/PERSTA# | Diff Pair, SAS Cable   |       |
|           | FLEXIO6_A/CPRSNTB# | B30     |                 |           | A12     | PRPE_A/CPRSNTA#   | Diff Pair, SAS Cable   |       |
|           | GND                | B31     | Diff Shield     |           | A19     | GND               | Diff Shield, SAS Cable |       |
|           | PETp6/Tx6+         | B32     | Diff Pair       |           | A39     | PERp8/Rx8+        | Diff Pair, SAS Cable   |       |
|           | PETn6/Tx6-         | B33     |                 |           | A40     | PERn8/Rx8-        | Diff Pair, SAS Cable   |       |
|           | GND                | B34     | Diff Shield     |           | A41     | GND               | Diff Shield, SAS Cable |       |
|           | PETp7/Tx7+         | B35     | Diff Pair       |           | A51     | PERp12/Rx12+      | Diff Shield, SAS Cable |       |
|           | PETn7/Tx7-         | B36     |                 |           | A52     | PERn12/Rx12-      | Diff Pair, SAS Cable   |       |
|           | GND                | B37     | Diff Shield     |           | A53     | GND               | Diff Pair, SAS Cable   |       |

Notes:  
1. Roughly 45-50 rows can fit on a D-sized drawing sheet. Please attempt to include breaks reasonable breaks in the table.

GENERAL TOLERANCE  
X.±  
.X±0.20  
.XX±0.10  
.XXX±0.05

ANGLE TOLERANCE  
X°±  
.X°±  
.XX°±  
.XXX°±


DRAWN  
DATE

DESIGN  
DATE

CHECKED  
DATE

APPROVED  
DATE

SHEET 2 OF 2

  
connected solutions

TITLE:  
CABLE, G6, SFP-TA-1016 x8 STR to SFP-TA-1016 74p  
2x8 STR, X4, 1.0M

PART NUMBER.  
320-10808

DRAWING NO.

SIZE A4  
REV. X2