

Keysight Test Report

**PASS**

|  |  |
| --- | --- |
| Report Header: | Keysight Inc. |
| Report Date: | 2025/04/13 22:19:26 |
| Type: | Unframed |

# SUMMARY

|  |  |
| --- | --- |
| IxOS Version | 10.00.1000.17 |
| Test Start Time | 2025/04/13 22:17:12 |
| Test End Time | 2025/04/13 22:19:25 |
| Test Duration | 00:01:00 |
| Pass/Fail Verdict | PASS |
| Module Type | 1,1,3 - PassiveCopper 1,1,4 - PassiveCopper |
| Module Version | 1,1,3 - CMIS 5.0 1,1,4 - CMIS 5.0 |
| Serial Number | 1,1,3 - 57ADUAD233140Z 1,1,4 - 57ADUAD233140Z |

# Transceiver DOM (Digital Optical Monitoring) - BERT

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1,1,3** |  |  |  |  |  |  |  |  |  |  |
| **Manufactuer** | TE Connectivity | **Model** | 2369405-2 | **Mfg Revision** | 11 |  |  |  |  |  |
| **Type** | PassiveCopper | **SN** | 57ADUAD233140Z | **Firmware Revision** |  |  |  |  |  |  |
| **MSA** | CMIS 5.0 | **Date Code(YYMMDDLL)** | 230904 | **Hardware Revision** |  |  |  |  |  |  |
| **Media Tech** | Copper cable unequalized | **Media Connector** | No separable connector |  |  |  |  |  |  |  |
| **Cable Lenth** | 1.0 m | **Identifier Type** | OSFP |  |  |  |  |  |  |  |
| **Reported Power Class** | 1 | **Reported Max Power** | 0.250000 W |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Modlue** | **High Alarm** | **High Warn** | **Low Warn** | **Low Alarm** |  |  |  |  |  |  |
| **Temperature** | -0.001 C | -0.001 C | -0.001 C | -0.001 C |  |  |  |  |  |  |
| **Supply Voltage** | -0.000 V | -0.000 V | -0.000 V | -0.000 V |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Lane Limits** | **High Alarm** | **High Warn** | **Low Warn** | **Low Alarm** |  |  |  |  |  |  |
| **Tx Optical Power** | -40.00 dBm | -40.00 dBm | -40.00 dBm | -40.00 dBm |  |  |  |  |  |  |
| **Rx Optical Power** | -40.00 dBm | -40.00 dBm | -40.00 dBm | -40.00 dBm |  |  |  |  |  |  |
| **Tx Bias Current** | -40.00 dBm | -40.00 dBm | -40.00 dBm | -40.00 dBm |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Host Lane** | **Port** | **Data Path State** | **Tx LOS** | **Tx CDR LOL** | **Media Lane** | **Tx Optical Power** | **Tx Bias Cureent** | **Rx Optical Power** | **Rx LOS** | **Rx CDR LOL** |
| 1 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 2 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 3 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 4 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 5 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 6 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 7 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 8 | 3.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1,1,4** |  |  |  |  |  |  |  |  |  |  |
| **Manufactuer** | TE Connectivity | **Model** | 2369405-2 | **Mfg Revision** | 11 |  |  |  |  |  |
| **Type** | PassiveCopper | **SN** | 57ADUAD233140Z | **Firmware Revision** |  |  |  |  |  |  |
| **MSA** | CMIS 5.0 | **Date Code(YYMMDDLL)** | 230904 | **Hardware Revision** |  |  |  |  |  |  |
| **Media Tech** | Copper cable unequalized | **Media Connector** | No separable connector |  |  |  |  |  |  |  |
| **Cable Lenth** | 1.0 m | **Identifier Type** | OSFP |  |  |  |  |  |  |  |
| **Reported Power Class** | 1 | **Reported Max Power** | 0.250000 W |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Modlue** | **High Alarm** | **High Warn** | **Low Warn** | **Low Alarm** |  |  |  |  |  |  |
| **Temperature** | -0.001 C | -0.001 C | -0.001 C | -0.001 C |  |  |  |  |  |  |
| **Supply Voltage** | -0.000 V | -0.000 V | -0.000 V | -0.000 V |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Lane Limits** | **High Alarm** | **High Warn** | **Low Warn** | **Low Alarm** |  |  |  |  |  |  |
| **Tx Optical Power** | -40.00 dBm | -40.00 dBm | -40.00 dBm | -40.00 dBm |  |  |  |  |  |  |
| **Rx Optical Power** | -40.00 dBm | -40.00 dBm | -40.00 dBm | -40.00 dBm |  |  |  |  |  |  |
| **Tx Bias Current** | -40.00 dBm | -40.00 dBm | -40.00 dBm | -40.00 dBm |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Host Lane** | **Port** | **Data Path State** | **Tx LOS** | **Tx CDR LOL** | **Media Lane** | **Tx Optical Power** | **Tx Bias Cureent** | **Rx Optical Power** | **Rx LOS** | **Rx CDR LOL** |
| 1 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 2 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 3 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 4 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 5 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 6 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 7 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |
| 8 | 4.1 | 0 | No | No | 0 | -40.00 dBm | 0.000 mA | -40.00 dBm | No | No |

# CMIS Applicatio Select

|  |  |
| --- | --- |
| 1,1,3 |  |
| Current AppSel | 0 |

Available Applications

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **App** | **Host Side** | | | | | | **Line Side Media** | | | | |
|  | **Interface** | **Lane Speed (G bit/s)** | **Modulation** | **Lane Groups** | **Lanes** | **ID (HEex)** | **Interface** | **Lane Speed (G bit/s)** | **Lane Groups** | **Lanes** | **ID (Hex)** |
| 1 | 800GBASE-CR8 | 106 | PAM4 | 1 | 8 | 73 | PassiveCopper |  | 0 | 8 | 1 |
| 2 | 400GBASE-CR4 | 106 | PAM4 | 2 | 4 | 72 | PassiveCopper |  | 0 | 4 | 1 |
| 3 | 200GBASE-CR2 | 106 | PAM4 | 4 | 2 | 71 | PassiveCopper |  | 0 | 2 | 1 |
| 4 | 100GBASE-CR1 | 106 | PAM4 | 8 | 1 | 70 | PassiveCopper |  | 0 | 1 | 1 |
| 5 | 400GBASE-CR8 | 53 | PAM4 | 1 | 8 | 29 | PassiveCopper |  | 0 | 8 | 1 |
| 6 | 200GBASE-CR4 | 53 | PAM4 | 2 | 4 | 28 | PassiveCopper |  | 0 | 4 | 1 |
| 7 | 100GBASE-CR2 | 53 | PAM4 | 4 | 2 | 27 | PassiveCopper |  | 0 | 2 | 1 |
| 8 | 50GBASE-CR | 53 | PAM4 | 8 | 1 | 24 | PassiveCopper |  | 0 | 1 | 1 |

Preview of Auto selected applications

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Host Port Mode** | **Mod** | **Lane Groups** | **Lanes** | **AppSel** | **Link** | **Host Electrical** | **Lane Groups** | **Lanes** | **Note** |

|  |  |
| --- | --- |
| 1,1,4 |  |
| Current AppSel | 0 |

Available Applications

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **App** | **Host Side** | | | | | | **Line Side Media** | | | | |
|  | **Interface** | **Lane Speed (G bit/s)** | **Modulation** | **Lane Groups** | **Lanes** | **ID (HEex)** | **Interface** | **Lane Speed (G bit/s)** | **Lane Groups** | **Lanes** | **ID (Hex)** |
| 1 | 800GBASE-CR8 | 106 | PAM4 | 1 | 8 | 73 | PassiveCopper |  | 0 | 8 | 1 |
| 2 | 400GBASE-CR4 | 106 | PAM4 | 2 | 4 | 72 | PassiveCopper |  | 0 | 4 | 1 |
| 3 | 200GBASE-CR2 | 106 | PAM4 | 4 | 2 | 71 | PassiveCopper |  | 0 | 2 | 1 |
| 4 | 100GBASE-CR1 | 106 | PAM4 | 8 | 1 | 70 | PassiveCopper |  | 0 | 1 | 1 |
| 5 | 400GBASE-CR8 | 53 | PAM4 | 1 | 8 | 29 | PassiveCopper |  | 0 | 8 | 1 |
| 6 | 200GBASE-CR4 | 53 | PAM4 | 2 | 4 | 28 | PassiveCopper |  | 0 | 4 | 1 |
| 7 | 100GBASE-CR2 | 53 | PAM4 | 4 | 2 | 27 | PassiveCopper |  | 0 | 2 | 1 |
| 8 | 50GBASE-CR | 53 | PAM4 | 8 | 1 | 24 | PassiveCopper |  | 0 | 1 | 1 |

Preview of Auto selected applications

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Host Port Mode** | **Mod** | **Lane Groups** | **Lanes** | **AppSel** | **Link** | **Host Electrical** | **Lane Groups** | **Lanes** | **Note** |

# BERT Result Summary

|  |  |  |
| --- | --- | --- |
| **Bit Error Ratio** | **1,1,3** | **1,1,4** |
| **BER Threshold** | 2.400000e-04 | 2.400000e-04 |
| **Pre-BER Pass/Fail Verdict** | PASS | PASS |

# BERT Statistics

Port - 1,1,3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Physical Lane** | **Pattern Lock** | **Pattern Transmitted** | **Pattern Received** | **Bits Send** | **Bits Received** | **Bit Error Received** | **Bit Error Ratio** |
| **Totals** | lock | 11Q | 11Q | 55950579511520.0 | 55950579504000.0 | 3687.0 | 2.106418e-09 |
| **0** | lock | 11Q | 11Q | 6944766868240 | 6944766867840 | 168 | 9.711000e-11 |
| **1** | lock | 11Q | 11Q | 6974213938720 | 6974213936640 | 381 | 2.186940e-10 |
| **2** | lock | 11Q | 11Q | 6974213938640 | 6974213938560 | 324 | 1.861000e-10 |
| **3** | lock | 11Q | 11Q | 6974213938800 | 6974213936640 | 42 | 2.407400e-11 |
| **4** | lock | 11Q | 11Q | 7000830377680 | 7000830376320 | 837 | 4.794000e-10 |
| **5** | lock | 11Q | 11Q | 7027446816320 | 7027446816000 | 1164 | 6.621000e-10 |
| **6** | lock | 11Q | 11Q | 7027446816480 | 7027446816000 | 580 | 3.302000e-10 |
| **7** | lock | 11Q | 11Q | 7027446816640 | 7027446816000 | 191 | 1.087400e-10 |

Port - 1,1,4

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Physical Lane** | **Pattern Lock** | **Pattern Transmitted** | **Pattern Received** | **Bits Send** | **Bits Received** | **Bit Error Received** | **Bit Error Ratio** |
| **Totals** | lock | 11Q | 11Q | 56524873758160.0 | 56524873760640.0 | 35370.0 | 1.995863e-08 |
| **0** | lock | 11Q | 11Q | 6976152176880 | 6976152176640 | 79 | 4.532300e-11 |
| **1** | lock | 11Q | 11Q | 7031202664960 | 7031202666240 | 142 | 8.142800e-11 |
| **2** | lock | 11Q | 11Q | 7086253152640 | 7086253152000 | 1941 | 1.096000e-09 |
| **3** | lock | 11Q | 11Q | 7086253152640 | 7086253153920 | 236 | 1.336800e-10 |
| **4** | lock | 11Q | 11Q | 7086253152880 | 7086253152000 | 19284 | 1.088200e-08 |
| **5** | lock | 11Q | 11Q | 7086253152720 | 7086253152000 | 7902 | 4.457000e-09 |
| **6** | lock | 11Q | 11Q | 7086253152800 | 7086253155840 | 5244 | 2.957000e-09 |
| **7** | lock | 11Q | 11Q | 7086253152640 | 7086253152000 | 542 | 3.062000e-10 |

# FEC Result Summary

No FEC Result Summary data available.

# PCS Lane Statistics

No PCS Lane Statistics data available.

# L2 Traffic Test Summary

No L2 Traffic Test Summary data available.

# Port Statistics - BERT

|  |  |  |
| --- | --- | --- |
| **Port Statistics** | **Port 1,1,3** | **Port 1,1,4** |
| link | link up | link up |
| transmitState | 0 | 0 |
| lineSpeed | 800000 | 800000 |
| bertBitsSent | 55322558380320 | 55349203466080 |
| bertBitsReceived | 55322558365440 | 55349203464960 |
| bertBitErrorsReceived | 3648 | 34498 |
| bertBitErrorRatio | 6.590000e-11 | 6.230000e-10 |
| centralTemperature | 41 | 41 |
| portTemperature | 60 | 56 |
| pcpuFpgaTemperature | 35 | 35 |
| bertTransmitDuration | 00:15:41.712284180 | 00:15:41.737057620 |
| encoding | PAM4 106G | PAM4 106G |
| transceiverTemp | 0 | 0 |
| transceiverVoltage | 0 | 0 |
| minLatency | 0 | 0 |
| averageLatency | 0 | 0 |
| maxLatency | 0 | 0 |