Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/04 00:34:41
Type:	Unframed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 00:33:08
Test End Time	2025/06/04 00:34:41
Test Duration	00:00:30
Pass/Fail Verdict	PASS
Module Type	1,1,2 - 100GBASE-DR 1,1,4 - 100GBASE-DR
Module Version	1,1,2 - CMIS 5.0 1,1,4 - CMIS 5.0
Serial Number	1,1,2 - DN4D180001 1,1,4 - UNA8490003

Transceiver DOM (Digital Optical Monitoring) - BERT

1,1,2									
Manufacturer	Eoptolink	Model	EOLD-138HG-5H-SM	Mfg Revision	01				
Type	100GBASE-DR	SN	DN4D180001	Firmware Revision	3.0				
MSA	CMIS 5.0	Date Code(YYMMDDLL)	220426	Hardware Revision	1.0				
Media Tech	1310 nm DFB	Media Connector	MPO 1x16						
Cable Lenth	0.0 m	Identifier Type	QSFP-DD						
Reported Power Class	8	Reported Max Power	18.000000 W						

Modlue	High Alarm	High Warn	Low Warn	Low Alarm
Temperature	78 C	73 C	-3 C	-8 C
Supply Voltage	3.630 V	3.465 V	3.135 V	2.970 V

Lane Limits	High Alarm	High Warn	Low Warn	Low Alarm
Tx Optical Power	6.00 dBm	5.00 dBm	-3.90 dBm	-4.90 dBm
Rx Optical Power	6.50 dBm	5.50 dBm	-7.40 dBm	-8.40 dBm
Tx Bias Current	6.50 dBm	5.50 dBm	-7.40 dBm	-8.40 dBm

Host Lane	Port	Data Path State	Tx LOS	Tx CDR LOL	Media	Tx Optical	Tx Bias	Rx Optical	Rx LOS	Rx CDR LOL
1	2.1	Activated (4)	No	No	1	3.23 dBm	229.432 mA	0.65 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.77 dBm	230.768 mA	2.47 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.44 dBm	213.600 mA	1.57 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.69 dBm	213.840 mA	-3.89 dBm	No	No
5	2.1	Activated (4)	No	No	5	3.16 dBm	213.960 mA	0.35 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.90 dBm	214.088 mA	0.13 dBm	No	No
7	2.1	Activated (4)	No	No	7	3.05 dBm	213.112 mA	2.11 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.75 dBm	213.472 mA	-0.95 dBm	No	No

1,1,4									
Manufacturer	Eoptolink		Model	EOLO-138HG-5H-SM		Mfg Revision	01		
Type	100GBASE-DR		SN	UNA8490003		Firmware Revision	3.0		
MSA	CMIS 5.0		Date Code(YYMMDDLL)	221109		Hardware Revision	1.0		
Media Tech	1310 nm DFB		Media Connector	MPO 1x16					
Cable Lenth	0.0 m		Identifier Type	OSFP					
Reported Power Class	8		Reported Max Power	18.000000 W					

Modlue	High Alarm	High Warn	Low Warn	Low Alarm
Temperature	78 C	73 C	-3 C	-8 C
Supply Voltage	3.630 V	3.465 V	3.135 V	2.970 V

Lane Limits	High Alarm	High Warn	Low Warn	Low Alarm
Tx Optical Power	6.00 dBm	5.00 dBm	-3.90 dBm	-4.90 dBm
Rx Optical Power	6.50 dBm	5.50 dBm	-7.40 dBm	-8.40 dBm
Tx Bias Current	6.50 dBm	5.50 dBm	-7.40 dBm	-8.40 dBm

Host Lane	Port	Data Path State	Tx LOS	Tx CDR LOL	Media	Tx Optical	Tx Bias	Rx Optical	Rx LOS	Rx CDR LOL
1	4.1	Activated (4)	No	No	1	2.46 dBm	239.648 mA	3.96 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.16 dBm	239.648 mA	3.27 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.42 dBm	214.256 mA	2.09 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.33 dBm	214.864 mA	2.32 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.13 dBm	184.472 mA	3.55 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.09 dBm	183.976 mA	3.44 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.21 dBm	181.904 mA	3.28 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.14 dBm	181.784 mA	2.22 dBm	No	No

CMIS Applicatio Select

1,1,2

Current AppSel   1

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	100GAUI-1-S C2M	106	PAM4	8	1	75	100GBASE-DR	106	8	1	20

Preview of Auto selected applications

Host Port Mode	Mod	Lane Groups	Lanes	AppSel	Link	Host Electrical	Lane Groups	Lanes	Note
800G-R8	PAM4	1	8	1	M	100GAUI-1-S C2M	1	8	First app matching host lane speed for host id: 0x51 (800G S C2M 8x53.125 PAM4)
400G-R4	PAM4	2	4	1	M	100GAUI-1-S C2M	2	4	First app matching host lane speed for host id: 0x4f (400GAUI-4-S C2M 4x53.125 PAM4)
200G-R2	PAM4	4	2	1	M	100GAUI-1-S C2M	4	2	First app matching host lane speed for host id: 0x4d (200GAUI-2-S C2M 2x53.125 PAM4)
100G-R	PAM4	8	1	1	Y	100GAUI-1-S C2M	8	1	First app matching compatible electrical mode: 0x4b (100GAUI-1-S C2M 1x53.125 PAM4)
400G-R8	PAM4	1	8	1	N	100GAUI-1-S C2M	1	8	No matching electrical mode
200G-R4	PAM4	2	4	1	N	100GAUI-1-S C2M	2	4	No matching electrical mode
100G-R2	PAM4	4	2	1	N	100GAUI-1-S C2M	4	2	No matching electrical mode
50G-R	PAM4	8	1	1	N	100GAUI-1-S C2M	8	1	No matching electrical mode
200G-R8	NRZ	1	8	1	N	100GAUI-1-S C2M	1	8	No matching electrical mode
100G-R4	NRZ	2	4	1	N	100GAUI-1-S C2M	2	4	No matching electrical mode
50G-R2	NRZ	4	2	1	N	100GAUI-1-S C2M	4	2	No matching electrical mode
25G-R	NRZ	8	1	1	N	100GAUI-1-S C2M	8	1	No matching electrical mode

CMIS Applicatio Select

1,1,4

Current AppSel   1

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	100GAUI-1-S C2M	106	PAM4	8	1	75	100GBASE-DR	106	8	1	20

Preview of Auto selected applications

Host Port Mode	Mod	Lane Groups	Lanes	AppSel	Link	Host Electrical	Lane Groups	Lanes	Note
800G-R8	PAM4	1	8	1	M	100GAUI-1-S C2M	1	8	First app matching host lane speed for host id: 0x51 (800G S C2M 8x53.125 PAM4)
400G-R4	PAM4	2	4	1	M	100GAUI-1-S C2M	2	4	First app matching host lane speed for host id: 0x4f (400GAUI-4-S C2M 4x53.125 PAM4)
200G-R2	PAM4	4	2	1	M	100GAUI-1-S C2M	4	2	First app matching host lane speed for host id: 0x4d (200GAUI-2-S C2M 2x53.125 PAM4)
100G-R	PAM4	8	1	1	Y	100GAUI-1-S C2M	8	1	First app matching compatible electrical mode: 0x4b (100GAUI-1-S C2M 1x53.125 PAM4)
400G-R8	PAM4	1	8	1	N	100GAUI-1-S C2M	1	8	No matching electrical mode
200G-R4	PAM4	2	4	1	N	100GAUI-1-S C2M	2	4	No matching electrical mode
100G-R2	PAM4	4	2	1	N	100GAUI-1-S C2M	4	2	No matching electrical mode
50G-R	PAM4	8	1	1	N	100GAUI-1-S C2M	8	1	No matching electrical mode
200G-R8	NRZ	1	8	1	N	100GAUI-1-S C2M	1	8	No matching electrical mode
100G-R4	NRZ	2	4	1	N	100GAUI-1-S C2M	2	4	No matching electrical mode
50G-R2	NRZ	4	2	1	N	100GAUI-1-S C2M	4	2	No matching electrical mode
25G-R	NRZ	8	1	1	N	100GAUI-1-S C2M	8	1	No matching electrical mode

BERT Result Summary

Bit Error Ratio	1,1,2	1,1,4
BER Threshold	2.400000e-04	2.400000e-04
Pre-BER Pass/Fail Verdict	PASS	PASS

BERT Statistics

Port - 1,1,2

Physical Lane	Pattern Lock	Pattern Transmitted	Pattern Received	Bits Send	Bits Received	Bit Error Received	Bit Error Ratio
Totals	lock	PRBS-31	PRBS-31	3119709418960.0	3119709417600.0	12.0	6.042000e-11
0	lock	PRBS-31	PRBS-31	380007487600	380007486720	0	0.000000e+00
1	lock	PRBS-31	PRBS-31	380007487680	380007486720	2	1.052000e-11
2	lock	PRBS-31	PRBS-31	380007487680	380007486720	0	0.000000e+00
3	lock	PRBS-31	PRBS-31	380007487680	380007488640	1	5.260000e-12
4	lock	PRBS-31	PRBS-31	380007487680	380007486720	1	5.260000e-12
5	lock	PRBS-31	PRBS-31	406557326880	406557327360	2	9.840000e-12
6	lock	PRBS-31	PRBS-31	406557326880	406557327360	6	2.954000e-11
7	lock	PRBS-31	PRBS-31	406557326880	406557327360	0	0.000000e+00

Port - 1,1,4

Physical Lane	Pattern Lock	Pattern Transmitted	Pattern Received	Bits Send	Bits Received	Bit Error Received	Bit Error Ratio
Totals	lock	PRBS-31	PRBS-31	3295270790480.0	3295270786560.0	270.0	1.326500e-09
0	lock	PRBS-31	PRBS-31	406976525680	406976524800	0	0.000000e+00
1	lock	PRBS-31	PRBS-31	406976525600	406976526720	2	9.830000e-12
2	lock	PRBS-31	PRBS-31	406976525760	406976524800	126	6.193000e-10
3	lock	PRBS-31	PRBS-31	406976525600	406976524800	0	0.000000e+00
4	lock	PRBS-31	PRBS-31	406976525680	406976524800	63	3.100000e-10
5	lock	PRBS-31	PRBS-31	406976525680	406976524800	66	3.247000e-10
6	lock	PRBS-31	PRBS-31	420129387360	420129386880	10	4.882000e-11
7	lock	PRBS-31	PRBS-31	433282249120	433282248960	3	1.385000e-11

FEC Result Summary

PCS Lane Statistics

L2 Traffic Test Summary

Port Statistics - BERT

Port Statistics	Port 1,1,2	Port 1,1,4
link	link up	link up
transmitState	0	0
lineSpeed	400000	400000
bertBitsSent	13921447832240	13915237528160
bertBitsReceived	13921447831680	13915237524480
bertBitErrorsReceived	70	1062
bertBitErrorRatio	5.030000e-12	7.630000e-11
centralTemperature	43	43
portTemperature	48	50
pcpuFpgaTemperature	33	33
bertTransmitDuration	00:47:06.988845340	00:47:06.998363300
encoding	Unknown	Unknown
transceiverTemp	51	55
transceiverVoltage	3.2269000000000001	3.2418999999999998
minLatency	0	0
averageLatency	0	0
maxLatency	0	0