Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/04 01:23:06
Type:	Unframed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 01:20:15
Test End Time	2025/06/04 01:23:06
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	3.17 dBm	222.264 mA	0.76 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.71 dBm	222.752 mA	2.26 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.37 dBm	204.624 mA	1.62 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.67 dBm	204.864 mA	-3.62 dBm	No	No
5	2.1	Activated (4)	No	No	5	3.03 dBm	201.824 mA	0.27 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.73 dBm	201.824 mA	0.04 dBm	No	No
7	2.1	Activated (4)	No	No	7	2.98 dBm	203.288 mA	2.09 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.66 dBm	203.528 mA	-1.00 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	2.45 dBm	231.480 mA	3.91 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.27 dBm	231.848 mA	3.17 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.37 dBm	206.848 mA	2.06 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.29 dBm	207.208 mA	2.30 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.12 dBm	176.720 mA	3.32 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.06 dBm	176.968 mA	3.27 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.16 dBm	174.400 mA	3.18 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.06 dBm	174.400 mA	2.12 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

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-31Q	PRBS-31Q	28183908910720.0	28183905695120.0	23057474.0	2.593027e-05
0	lock	PRBS-31Q	PRBS-31Q	3485880247360	3485880248640	55	6.377000e-11
1	lock	PRBS-31Q	PRBS-31Q	3499143281600	3499143283200	82	9.380000e-11
2	lock	PRBS-31Q	PRBS-31Q	3499143281840	3499143283200	71	8.120000e-11
3	lock	PRBS-31Q	PRBS-31Q	3499143281680	3499143283200	59	6.738000e-11
4	lock	PRBS-31Q	PRBS-31Q	3539948420080	3539948418240	73	8.320000e-11
5	lock	PRBS-31Q	PRBS-31Q	3553550132720	3553546910480	23056091	2.592870e-05
6	lock	PRBS-31Q	PRBS-31Q	3553550132800	3553550133120	1022	1.150380e-09
7	lock	PRBS-31Q	PRBS-31Q	3553550132640	3553550135040	21	2.361000e-11

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-31Q	PRBS-31Q	28783419937840.0	28783419940800.0	42.0	4.672000e-11
0	lock	PRBS-31Q	PRBS-31Q	3525330580000	3525330580800	5	5.720000e-12
1	lock	PRBS-31Q	PRBS-31Q	3608298479680	3608298481920	0	0.000000e+00
2	lock	PRBS-31Q	PRBS-31Q	3608298479680	3608298481920	16	1.771000e-11
3	lock	PRBS-31Q	PRBS-31Q	3608298479680	3608298478080	9	9.980000e-12
4	lock	PRBS-31Q	PRBS-31Q	3608298479760	3608298478080	2	2.220000e-12
5	lock	PRBS-31Q	PRBS-31Q	3608298479680	3608298478080	8	8.870000e-12
6	lock	PRBS-31Q	PRBS-31Q	3608298479680	3608298481920	1	1.110000e-12
7	lock	PRBS-31Q	PRBS-31Q	3608298479680	3608298480000	1	1.110000e-12

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	800000	800000
bertBitsSent	27568729149840	27142124349520
bertBitsReceived	27568726033040	27142124352000
bertBitErrorsReceived	22428165	40
bertBitErrorRatio	8.140000e-07	1.470000e-12
centralTemperature	42	42
portTemperature	47	49
pcpuFpgaTemperature	33	33
bertTransmitDuration	00:01:26.302649260	00:01:25.814206540
encoding	PAM4 106G	PAM4 106G
transceiverTemp	49	53
transceiverVoltage	3.2284000000000002	3.2484999999999999
minLatency	0	0
averageLatency	0	0
maxLatency	0	0