Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/04 00:41:35
Type:	Unframed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 00:39:43
Test End Time	2025/06/04 00:41:35
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	229.800 mA	0.66 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.76 dBm	229.560 mA	2.47 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.44 dBm	212.512 mA	1.59 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.69 dBm	213.368 mA	-3.85 dBm	No	No
5	2.1	Activated (4)	No	No	5	3.14 dBm	212.640 mA	0.35 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.87 dBm	212.512 mA	0.13 dBm	No	No
7	2.1	Activated (4)	No	No	7	3.05 dBm	212.152 mA	2.12 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.74 dBm	212.032 mA	-0.96 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	238.192 mA	3.93 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.17 dBm	238.560 mA	3.26 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.41 dBm	213.328 mA	2.10 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.32 dBm	213.448 mA	2.33 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.11 dBm	182.968 mA	3.53 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.07 dBm	183.096 mA	3.43 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.19 dBm	180.896 mA	3.27 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.11 dBm	180.656 mA	2.21 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	13956968516240.0	13956968519040.0	54.0	6.188000e-11
0	lock	PRBS-31Q	PRBS-31Q	1744621064480	1744621063680	0	0.000000e+00
1	lock	PRBS-31Q	PRBS-31Q	1744621064640	1744621063680	14	1.604000e-11
2	lock	PRBS-31Q	PRBS-31Q	1744621064640	1744621065600	0	0.000000e+00
3	lock	PRBS-31Q	PRBS-31Q	1744621064480	1744621065600	3	3.440000e-12
4	lock	PRBS-31Q	PRBS-31Q	1744621064560	1744621063680	2	2.290000e-12
5	lock	PRBS-31Q	PRBS-31Q	1744621064480	1744621065600	7	8.020000e-12
6	lock	PRBS-31Q	PRBS-31Q	1744621064480	1744621065600	24	2.750000e-11
7	lock	PRBS-31Q	PRBS-31Q	1744621064480	1744621065600	4	4.590000e-12

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	13958731568880.0	13958731574400.0	1000.0	1.146910e-09
0	lock	PRBS-31Q	PRBS-31Q	1744841446080	1744841447040	1	1.150000e-12
1	lock	PRBS-31Q	PRBS-31Q	1744841446240	1744841445120	10	1.150000e-11
2	lock	PRBS-31Q	PRBS-31Q	1744841446080	1744841447040	419	4.805000e-10
3	lock	PRBS-31Q	PRBS-31Q	1744841446160	1744841447040	1	1.150000e-12
4	lock	PRBS-31Q	PRBS-31Q	1744841446080	1744841447040	266	3.050000e-10
5	lock	PRBS-31Q	PRBS-31Q	1744841446080	1744841447040	265	3.041000e-10
6	lock	PRBS-31Q	PRBS-31Q	1744841446080	1744841447040	27	3.090000e-11
7	lock	PRBS-31Q	PRBS-31Q	1744841446080	1744841447040	11	1.261000e-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	13742411516080	13529166813840
bertBitsReceived	13742411520000	13529166812160
bertBitErrorsReceived	52	977
bertBitErrorRatio	3.780000e-12	7.220000e-11
centralTemperature	42	42
portTemperature	48	49
pcpuFpgaTemperature	33	33
bertTransmitDuration	00:53:41.667369300	00:53:41.218538980
encoding	Unknown	Unknown
transceiverTemp	51	55
transceiverVoltage	3.2332000000000001	3.2465999999999999
minLatency	0	0
averageLatency	0	0
maxLatency	0	0