Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/03 22:51:59
Type:	Unframed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/03 22:49:44
Test End Time	2025/06/03 22:51:59
Test Duration	00:01:00
Pass/Fail Verdict	PASS
Module Type	1,1,3 - 100GBASE-DR
Module Version	1,1,3 - CMIS 5.0
Serial Number	1,1,3 - UNA8490004

Transceiver DOM (Digital Optical Monitoring) - BERT

1,1,3									
Manufacturer	Eoptolink		Model	EOLO-138HG-5H-SM		Mfg Revision	01		
Type	100GBASE-DR		SN	UNA8490004		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	3.1	Activated (4)	No	No	1	1.81 dBm	233.552 mA	2.11 dBm	No	No
2	3.1	Activated (4)	No	No	2	2.18 dBm	234.656 mA	1.57 dBm	No	No
3	3.1	Activated (4)	No	No	3	2.03 dBm	213.432 mA	0.04 dBm	No	No
4	3.1	Activated (4)	No	No	4	1.83 dBm	213.312 mA	1.80 dBm	No	No
5	3.1	Activated (4)	No	No	5	2.20 dBm	210.752 mA	2.18 dBm	No	No
6	3.1	Activated (4)	No	No	6	1.99 dBm	211.112 mA	2.05 dBm	No	No
7	3.1	Activated (4)	No	No	7	2.28 dBm	213.800 mA	2.27 dBm	No	No
8	3.1	Activated (4)	No	No	8	2.39 dBm	213.920 mA	2.05 dBm	No	No

CMIS Applicatio Select

1,1,3

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	1,1,3
BER Threshold	2.400000e-04
Pre-BER Pass/Fail Verdict	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	55787374616320.0	55787374620480.0	29.0	1.659000e-11
0	lock	11Q	11Q	6908656570960	6908656571520	0	0.000000e+00
1	lock	11Q	11Q	6961852626720	6961852627200	0	0.000000e+00
2	lock	11Q	11Q	6961852626880	6961852627200	0	0.000000e+00
3	lock	11Q	11Q	6961852626880	6961852627200	0	0.000000e+00
4	lock	11Q	11Q	6961852626640	6961852627200	2	1.150000e-12
5	lock	11Q	11Q	7001602533440	7001602534080	23	1.316000e-11
6	lock	11Q	11Q	7014852502400	7014852503040	4	2.280000e-12
7	lock	11Q	11Q	7014852502400	7014852503040	0	0.000000e+00

BERT Statistics

FEC Result Summary

PCS Lane Statistics

L2 Traffic Test Summary

Port Statistics - BERT

Port Statistics	Port 1,1,3
link	link up
transmitState	0
lineSpeed	800000
bertBitsSent	55269252567760
bertBitsReceived	55269252576000
bertBitErrorsReceived	27
bertBitErrorRatio	4.890000e-13
centralTemperature	45
portTemperature	54
pcpuFpgaTemperature	33
bertTransmitDuration	00:35:41.541717580
encoding	PAM4 106G
transceiverTemp	55
transceiverVoltage	3.2307000000000001
minLatency	0
averageLatency	0
maxLatency	0