Keysight Test Report

FAIL

Report Header:	Keysight Inc.
Report Date:	2025/06/03 21:51:46
Type:	Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/03 21:50:13
Test End Time	2025/06/03 21:51:46
Test Duration	00:01:00
Pass/Fail Verdict	FAIL
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) - 128

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	1.87 dBm	232.816 mA	2.03 dBm	No	No
2	3.1	Activated (4)	No	No	2	2.17 dBm	232.816 mA	1.55 dBm	No	No
3	3.1	Activated (4)	No	No	3	2.01 dBm	212.808 mA	0.04 dBm	No	No
4	3.1	Activated (4)	No	No	4	1.78 dBm	212.072 mA	1.90 dBm	No	No
5	3.1	Activated (4)	No	No	5	2.19 dBm	209.760 mA	2.14 dBm	No	No
6	3.1	Activated (4)	No	No	6	1.97 dBm	210.120 mA	2.06 dBm	No	No
7	3.1	Activated (4)	No	No	7	2.26 dBm	213.048 mA	2.28 dBm	No	No
8	3.1	Activated (4)	No	No	8	2.27 dBm	213.176 mA	2.20 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

BERT Statistics

FEC Result Summary - 128

Frame Loss Ratio	1,1,3
Pre-FEC Standard	2.400000e-04
Pre-FEC Pass/Fail Verdict	PASS
Post-FEC Standard	9.200000e-13
Post-FEC Pass/Fail Verdict	FAIL

PCS Lane Statistics - 128

Port - 1,1,3

Physical Lane	PCS Lane Marker Lock	PCS Lane Marker Map	Relative Lane Skew (ns)	PCS Lane Marker Error Count	FEC Symbol Error Count	FEC Correct Bit Count	FEC Symbol Error	FEC Correct Bit Rate
Totals	Unlock	all	0.0	140.0	0.0	69.0	0.000000e+00	1.726526e-10
0	Unlock	0	0.0	5	0	0	0.000000e+00	0.000000e+00
1	Unlock	16	0.0	5	0	0	0.000000e+00	0.000000e+00
2	Unlock	1	0.0	5	0	0	0.000000e+00	0.000000e+00
3	Unlock	17	0.0	5	0	0	0.000000e+00	0.000000e+00
4	Unlock	2	0.0	5	0	1	0.000000e+00	2.502212e-12
5	Unlock	18	0.0	5	0	0	0.000000e+00	0.000000e+00
6	Unlock	3	0.0	5	0	0	0.000000e+00	0.000000e+00
7	Unlock	19	0.0	5	0	0	0.000000e+00	0.000000e+00
8	Unlock	20	0.0	0	0	34	0.000000e+00	8.507522e-11
9	Unlock	4	0.0	0	0	0	0.000000e+00	0.000000e+00
10	Unlock	21	0.0	0	0	25	0.000000e+00	6.255531e-11
11	Unlock	5	0.0	0	0	0	0.000000e+00	0.000000e+00
12	Unlock	6	0.0	5	0	0	0.000000e+00	0.000000e+00
13	Unlock	22	0.0	5	0	0	0.000000e+00	0.000000e+00
14	Unlock	7	0.0	5	0	0	0.000000e+00	0.000000e+00
15	Unlock	23	0.0	5	0	0	0.000000e+00	0.000000e+00
16	Unlock	8	0.0	5	0	0	0.000000e+00	0.000000e+00
17	Unlock	24	0.0	5	0	0	0.000000e+00	0.000000e+00
18	Unlock	9	0.0	5	0	0	0.000000e+00	0.000000e+00
19	Unlock	25	0.0	5	0	0	0.000000e+00	0.000000e+00
20	Unlock	26	0.0	5	0	8	0.000000e+00	2.001770e-11
21	Unlock	10	0.0	5	0	1	0.000000e+00	2.502212e-12
22	Unlock	27	0.0	5	0	0	0.000000e+00	0.000000e+00
23	Unlock	11	0.0	5	0	0	0.000000e+00	0.000000e+00
24	Unlock	12	0.0	5	0	0	0.000000e+00	0.000000e+00
25	Unlock	28	0.0	5	0	0	0.000000e+00	0.000000e+00
26	Unlock	13	0.0	5	0	0	0.000000e+00	0.000000e+00
27	Unlock	29	0.0	5	0	0	0.000000e+00	0.000000e+00
28	Unlock	30	0.0	5	0	0	0.000000e+00	0.000000e+00
29	Unlock	14	0.0	5	0	0	0.000000e+00	0.000000e+00
30	Unlock	31	0.0	5	0	0	0.000000e+00	0.000000e+00
31	Unlock	15	0.0	5	0	0	0.000000e+00	0.000000e+00

PCS Lane Statistics - 128

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	8196534984	8042922223	153612761	0.018741182865669326

Port Statistics - 128

Port Statistics	Port 1,1,3
link	link down
lineSpeed	800000
transmitDuration	00:00:00.193708033
framesSent	8196534984
framesReceived	8042922223
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	8393251823616
bitsReceived	8235952357184
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	24
fecMaxSymbolErrors	16
fecCorrectedCodewords	12
fecTotalCodewords	2239591280
fecFrameLossRatio	4.286496e-08
preFecBer	1.969897e-12
fecMaxSymbolErrorsBin0	2239591172
fecMaxSymbolErrorsBin1	10
fecMaxSymbolErrorsBin2	0
fecMaxSymbolErrorsBin3	0
fecMaxSymbolErrorsBin4	0
fecMaxSymbolErrorsBin5	0
fecMaxSymbolErrorsBin6	0
fecMaxSymbolErrorsBin7	2
fecMaxSymbolErrorsBin8	0
fecMaxSymbolErrorsBin9	0
fecMaxSymbolErrorsBin10	0
fecMaxSymbolErrorsBin11	0
fecMaxSymbolErrorsBin12	0
fecMaxSymbolErrorsBin13	0
fecMaxSymbolErrorsBin14	0
fecMaxSymbolErrorsBin15	0
fecUncorrectableCodewords	96
fecTranscodingUncorrectableErrors	48
l1BitsSent	9704697421056
l1BitsReceived	9522819912864
transceiverTemp	54
encoding	PAM4 106G
fecStatus	KP4-FEC
transceiverVoltage	3.2303999999999999
minLatency	1500000000001
averageLatency	0
maxLatency	0