Keysight Test Report

Report Header:	Keysight Inc.
Report Date:	2025/06/04 01:42:15
Type:	Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 01:39:29
Test End Time	2025/06/04 01:42:15
Test Duration	00:00:30
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) - 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	1.82 dBm	224.584 mA	1.95 dBm	No	No
2	3.1	Activated (4)	No	No	2	2.26 dBm	224.824 mA	1.42 dBm	No	No
3	3.1	Activated (4)	No	No	3	2.12 dBm	204.400 mA	-0.42 dBm	No	No
4	3.1	Activated (4)	No	No	4	1.96 dBm	204.400 mA	1.59 dBm	No	No
5	3.1	Activated (4)	No	No	5	2.20 dBm	201.848 mA	2.14 dBm	No	No
6	3.1	Activated (4)	No	No	6	1.96 dBm	201.848 mA	2.00 dBm	No	No
7	3.1	Activated (4)	No	No	7	2.32 dBm	205.008 mA	2.02 dBm	No	No
8	3.1	Activated (4)	No	No	8	2.42 dBm	205.128 mA	1.89 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	PASS

FEC Result Summary - 128

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	Lock	all	12.047	0.0	0.0	20.0	0.000000e+00	2.235401e-11
0	Lock	0	3.011	0	0	0	0.000000e+00	0.000000e+00
1	Lock	16	6.023	0	0	0	0.000000e+00	0.000000e+00
2	Lock	1	0.0	0	0	0	0.000000e+00	0.000000e+00
3	Lock	17	3.011	0	0	0	0.000000e+00	0.000000e+00
4	Lock	2	3.011	0	0	0	0.000000e+00	0.000000e+00
5	Lock	18	6.023	0	0	0	0.000000e+00	0.000000e+00
6	Lock	3	0.0	0	0	0	0.000000e+00	0.000000e+00
7	Lock	19	3.011	0	0	0	0.000000e+00	0.000000e+00
8	Lock	4	0.0	0	0	0	0.000000e+00	0.000000e+00
9	Lock	20	3.011	0	0	1	0.000000e+00	1.134892e-12
10	Lock	5	0.0	0	0	0	0.000000e+00	0.000000e+00
11	Lock	21	3.011	0	0	0	0.000000e+00	0.000000e+00
12	Lock	22	6.023	0	0	0	0.000000e+00	0.000000e+00
13	Lock	6	3.011	0	0	1	0.000000e+00	1.116796e-12
14	Lock	23	3.011	0	0	0	0.000000e+00	0.000000e+00
15	Lock	7	0.0	0	0	0	0.000000e+00	0.000000e+00
16	Lock	8	9.035	0	0	0	0.000000e+00	0.000000e+00
17	Lock	24	12.047	0	0	0	0.000000e+00	0.000000e+00
18	Lock	9	6.023	0	0	0	0.000000e+00	0.000000e+00
19	Lock	25	9.035	0	0	0	0.000000e+00	0.000000e+00
20	Lock	10	6.023	0	0	8	0.000000e+00	8.934367e-12
21	Lock	26	9.035	0	0	7	0.000000e+00	7.817571e-12
22	Lock	11	3.011	0	0	0	0.000000e+00	0.000000e+00
23	Lock	27	6.023	0	0	0	0.000000e+00	0.000000e+00
24	Lock	28	9.035	0	0	3	0.000000e+00	3.350388e-12
25	Lock	12	6.023	0	0	0	0.000000e+00	0.000000e+00
26	Lock	29	9.035	0	0	0	0.000000e+00	0.000000e+00
27	Lock	13	6.023	0	0	0	0.000000e+00	0.000000e+00
28	Lock	30	9.035	0	0	0	0.000000e+00	0.000000e+00
29	Lock	14	6.023	0	0	0	0.000000e+00	0.000000e+00
30	Lock	31	9.035	0	0	0	0.000000e+00	0.000000e+00
31	Lock	15	6.023	0	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	20319391096	20319391096	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,3
link	link up
lineSpeed	800000
transmitDuration	00:00:30.072698905
framesSent	20319391096
framesReceived	20319391096
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	20807056482304
bitsReceived	20807056482304
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	21
fecMaxSymbolErrors	1
fecCorrectedCodewords	21
fecTotalCodewords	5144097792
fecFrameLossRatio	0.000000e+00
preFecBer	7.504317e-13
fecMaxSymbolErrorsBin0	5144097771
fecMaxSymbolErrorsBin1	21
fecMaxSymbolErrorsBin2	0
fecMaxSymbolErrorsBin3	0
fecMaxSymbolErrorsBin4	0
fecMaxSymbolErrorsBin5	0
fecMaxSymbolErrorsBin6	0
fecMaxSymbolErrorsBin7	0
fecMaxSymbolErrorsBin8	0
fecMaxSymbolErrorsBin9	0
fecMaxSymbolErrorsBin10	0
fecMaxSymbolErrorsBin11	0
fecMaxSymbolErrorsBin12	0
fecMaxSymbolErrorsBin13	0
fecMaxSymbolErrorsBin14	0
fecMaxSymbolErrorsBin15	0
fecUncorrectableCodewords	0
fecTranscodingUncorrectableErrors	0
l1BitsSent	24058159057664
l1BitsReceived	24058159057664
transceiverTemp	52
encoding	PAM4 106G
fecStatus	KP4-FEC
transceiverVoltage	3.2359
minLatency	0
averageLatency	0
maxLatency	0