



Keysight Test Report

PASS

Report Header:

Keysight Inc.

Report Date:

2025/06/04 01:51:08

Type:

Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 01:49:26
Test End Time	2025/06/04 01:51:08
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(YMMDDLL)		221109		Hardware Revision		1.0
Media Tech		1310 nm DFB		Media Connector		MPO 1x16				
Cable Length		0.0 m		Identifier Type		OSFP				
Reported Power Class		8		Reported Max Power		18.000000 W				
Module		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	Date 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	1.80 dBm	235.160 mA	1.98 dBm	No	No
2	3.1	Activated (4)	No	No	2	2.24 dBm	235.160 mA	1.42 dBm	No	No
3	3.1	Activated (4)	No	No	3	2.11 dBm	215.328 mA	-0.24 dBm	No	No
4	3.1	Activated (4)	No	No	4	2.01 dBm	215.576 mA	1.63 dBm	No	No
5	3.1	Activated (4)	No	No	5	2.26 dBm	210.216 mA	2.23 dBm	No	No
6	3.1	Activated (4)	No	No	6	1.95 dBm	212.168 mA	2.05 dBm	No	No
7	3.1	Activated (4)	No	No	7	2.37 dBm	215.088 mA	2.02 dBm	No	No
8	3.1	Activated (4)	No	No	8	2.49 dBm	215.696 mA	1.96 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

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	21.0	0.000000e+00	2.311996e-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	0	0.000000e+00	0.000000e+00
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	1.116386e-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	14	0.000000e+00	1.540250e-11
21	Lock	26	9.035	0	0	4	0.000000e+00	4.400714e-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	2	0.000000e+00	2.200357e-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

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	20579620771	20579620771	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,3
link	link up
lineSpeed	800000
transmitDuration	00:00:30.457838827
framesSent	20579620771
framesReceived	20579620771
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	21073531669504
bitsReceived	21073531669504
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	20
fecMaxSymbolErrors	1
fecCorrectedCodewords	20
fecTotalCodewords	5207603888
fecFrameLossRatio	0.000000e+00
preFecBer	7.059812e-13
fecMaxSymbolErrorsBin0	5207603868
fecMaxSymbolErrorsBin1	20
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	24366270992864
l1BitsReceived	24366270992864
transceiverTemp	55
encoding	PAM4 106G
fecStatus	KP4-FEC
transceiverVoltage	3.2372999999999998
minLatency	0
averageLatency	0
maxLatency	0
Loss_Frames	0
Loss%	0.0