Keysight Test Report

PASS

Report Header: Keysight Inc.

Report Date: 2025/06/04 01:13:24

Type: Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 01:10:40
Test End Time	2025/06/04 01:13:23
Test Duration	00:00:30
Pass/Fail Verdict	PASS
Module Type	1,1,123 - 100GBASE-DR
Module Version	1,1,123 - CMIS 5.0
Serial Number	1,1,123 - UNA8490004

Transceiver DOM (Digital Optical Monitoring) - 128

1,1,123					
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	225.880 mA	1.99 dBm	No	No
2	3.1	Activated (4)	No	No	2	2.26 dBm	225.760 mA	1.38 dBm	No	No
3	3.1	Activated (4)	No	No	3	2.12 dBm	205.280 mA	-0.44 dBm	No	No
4	3.1	Activated (4)	No	No	4	1.96 dBm	204.792 mA	1.58 dBm	No	No
5	3.1	Activated (4)	No	No	5	2.22 dBm	202.352 mA	2.11 dBm	No	No
6	3.1	Activated (4)	No	No	6	1.95 dBm	201.744 mA	1.98 dBm	No	No
7	3.1	Activated (4)	No	No	7	2.28 dBm	206.008 mA	2.09 dBm	No	No
8	3.1	Activated (4)	No	No	8	2.43 dBm	206.256 mA	1.89 dBm	No	No

CMIS Applicatio Select

1,1,123

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

CMIS Applicatio Select

BERT Result Summary

BERT Statistics

FEC Result Summary - 128

Frame Loss Ratio	1,1,123
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 - 1,1,123

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	9.035	0.0	0.0	349.0	0.000000e+00	3.845837e-10
0	Lock	0	3.011	0	0	33	0.000000e+00	3.685234e-11
1	Lock	1	3.011	0	0	8	0.000000e+00	8.803326e-12
2	Lock	2	3.011	0	0	19	0.000000e+00	2.090790e-11
3	Lock	3	3.011	0	0	8	0.000000e+00	8.803326e-12
4	Lock	4	0.0	0	0	17	0.000000e+00	1.870707e-11
5	Lock	5	0.0	0	0	1	0.000000e+00	1.100416e-12
6	Lock	6	0.0	0	0	43	0.000000e+00	4.731788e-11
7	Lock	7	0.0	0	0	1	0.000000e+00	1.100416e-12
8	Lock	8	9.035	0	0	16	0.000000e+00	1.760665e-11
9	Lock	9	9.035	0	0	26	0.000000e+00	2.861081e-11
10	Lock	10	9.035	0	0	27	0.000000e+00	2.971123e-11
11	Lock	11	9.035	0	0	23	0.000000e+00	2.530956e-11
12	Lock	12	9.035	0	0	10	0.000000e+00	1.100416e-11
13	Lock	13	9.035	0	0	2	0.000000e+00	2.200832e-12
14	Lock	14	9.035	0	0	72	0.000000e+00	7.922994e-11
15	Lock	15	9.035	0	0	43	0.000000e+00	4.731788e-11

PCS Lane Statistics - 128

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	10276307860	10276307860	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,123
link	link up
lineSpeed	400000
transmitDuration	00:00:30.417871270
framesSent	10276307860
framesReceived	10276307860
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	10522939248640
bitsReceived	10522939248640
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	337
fecMaxSymbolErrors	1
fecCorrectedCodewords	337
fecTotalCodewords	2602396784
fecFrameLossRatio	0.000000e+00
preFecBer	2.380441e-11
fecMaxSymbolErrorsBin0	2602396447
fecMaxSymbolErrorsBin1	337
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	12167148506240
l1BitsReceived	12167148506240
transceiverTemp	52
encoding	Unknown
fecStatus	KP4-FEC
transceiverVoltage	3.2277
minLatency	111
averageLatency	112
maxLatency	125