Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/03 23:36:55
Type:	Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/03 23:35:13
Test End Time	2025/06/03 23:36:55
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	1.83 dBm	233.912 mA	1.96 dBm	No	No
2	3.1	Activated (4)	No	No	2	2.22 dBm	234.160 mA	1.47 dBm	No	No
3	3.1	Activated (4)	No	No	3	2.11 dBm	214.504 mA	-0.26 dBm	No	No
4	3.1	Activated (4)	No	No	4	1.98 dBm	214.624 mA	1.60 dBm	No	No
5	3.1	Activated (4)	No	No	5	2.24 dBm	211.936 mA	2.19 dBm	No	No
6	3.1	Activated (4)	No	No	6	1.95 dBm	211.696 mA	2.02 dBm	No	No
7	3.1	Activated (4)	No	No	7	2.34 dBm	215.112 mA	2.10 dBm	No	No
8	3.1	Activated (4)	No	No	8	2.49 dBm	215.112 mA	1.94 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	12.047	0.0	0.0	398.0	0.000000e+00	4.407143e-10
0	Lock	0	6.023	0	0	71	0.000000e+00	7.937332e-11
1	Lock	1	3.011	0	0	24	0.000000e+00	2.683042e-11
2	Lock	2	3.011	0	0	36	0.000000e+00	4.024563e-11
3	Lock	3	3.011	0	0	2	0.000000e+00	2.235868e-12
4	Lock	4	0.0	0	0	5	0.000000e+00	5.589670e-12
5	Lock	5	0.0	0	0	1	0.000000e+00	1.117934e-12
6	Lock	6	6.023	0	0	1	0.000000e+00	1.117934e-12
7	Lock	7	6.023	0	0	0	0.000000e+00	0.000000e+00
8	Lock	8	9.035	0	0	9	0.000000e+00	9.914078e-12
9	Lock	9	9.035	0	0	31	0.000000e+00	3.414849e-11
10	Lock	10	9.035	0	0	24	0.000000e+00	2.643754e-11
11	Lock	11	9.035	0	0	73	0.000000e+00	8.041419e-11
12	Lock	12	6.023	0	0	57	0.000000e+00	6.278916e-11
13	Lock	13	6.023	0	0	48	0.000000e+00	5.287508e-11
14	Lock	14	12.047	0	0	13	0.000000e+00	1.432034e-11
15	Lock	15	9.035	0	0	3	0.000000e+00	3.304693e-12

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	10259310346	10259310346	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,123
link	link up
lineSpeed	400000
transmitDuration	00:00:30.367558633
framesSent	10259310346
framesReceived	10259310346
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	10505533794304
bitsReceived	10505533794304
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	386
fecMaxSymbolErrors	1
fecCorrectedCodewords	386
fecTotalCodewords	2601451552
fecFrameLossRatio	0.000000e+00
preFecBer	2.727550e-11
fecMaxSymbolErrorsBin0	2601451166
fecMaxSymbolErrorsBin1	386
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	12147023449664
l1BitsReceived	12147023449664
transceiverTemp	55
encoding	Unknown
fecStatus	KP4-FEC
transceiverVoltage	3.2307000000000001
minLatency	113
averageLatency	114
maxLatency	127