Keysight Test Report

Report Header: Keysight Inc.

Report Date: 2025/06/18 15:03:37

Type: Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/18 15:01:53
Test End Time	2025/06/18 15:03:37
Test Duration	00:00:30
Pass/Fail Verdict	PASS
Module Type	1,1,1 - 100GBASE-DR
Module Version	1,1,1 - CMIS 5.0
Serial Number	1,1,1 - DN4D180001

Transceiver DOM (Digital Optical Monitoring) - 128

1,1,1									
Manufacturer	Eoptolink		Model	EOLD-138HG-5H-SM		Mfg Revision	01		
Type	100GBASE-DR		SN	DN4D180001		Firmware Revision	3.0		
MSA	CMIS 5.0		Date Code(YYMMDDLL)	220426		Hardware Revision	1.0		
Media Tech	1310 nm DFB		Media Connector	MPO 1x16					
Cable Lenth	0.0 m		Identifier Type	QSFP-DD					
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	1.1	Activated (4)	No	No	1	3.33 dBm	228.360 mA	3.87 dBm	No	No
2	1.1	Activated (4)	No	No	2	2.90 dBm	228.480 mA	3.74 dBm	No	No
3	1.1	Activated (4)	No	No	3	1.43 dBm	210.496 mA	3.00 dBm	No	No
4	1.1	Activated (4)	No	No	4	1.70 dBm	210.736 mA	3.35 dBm	No	No
5	1.1	Activated (4)	No	No	5	3.12 dBm	210.376 mA	4.33 dBm	No	No
6	1.1	Activated (4)	No	No	6	2.83 dBm	210.616 mA	2.50 dBm	No	No
7	1.1	Activated (4)	No	No	7	3.20 dBm	210.008 mA	4.25 dBm	No	No
8	1.1	Activated (4)	No	No	8	2.89 dBm	210.248 mA	3.89 dBm	No	No

CMIS Applicatio Select

1,1,1

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	1,1,1
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 - 1,1,1

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	14.0	0.000000e+00	1.550545e-11
0	Lock	16	6.023	0	0	0	0.000000e+00	0.000000e+00
1	Lock	0	3.011	0	0	0	0.000000e+00	0.000000e+00
2	Lock	17	3.011	0	0	0	0.000000e+00	0.000000e+00
3	Lock	1	0.0	0	0	0	0.000000e+00	0.000000e+00
4	Lock	18	3.011	0	0	0	0.000000e+00	0.000000e+00
5	Lock	2	0.0	0	0	0	0.000000e+00	0.000000e+00
6	Lock	19	0.0	0	0	0	0.000000e+00	0.000000e+00
7	Lock	3	3.011	0	0	0	0.000000e+00	0.000000e+00
8	Lock	4	6.023	0	0	3	0.000000e+00	3.343754e-12
9	Lock	20	6.023	0	0	0	0.000000e+00	0.000000e+00
10	Lock	5	3.011	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	6	0.0	0	0	4	0.000000e+00	4.458339e-12
13	Lock	22	3.011	0	0	1	0.000000e+00	1.114585e-12
14	Lock	7	3.011	0	0	0	0.000000e+00	0.000000e+00
15	Lock	23	3.011	0	0	0	0.000000e+00	0.000000e+00
16	Lock	8	3.011	0	0	0	0.000000e+00	0.000000e+00
17	Lock	24	6.023	0	0	2	0.000000e+00	2.196259e-12
18	Lock	9	6.023	0	0	0	0.000000e+00	0.000000e+00
19	Lock	25	6.023	0	0	0	0.000000e+00	0.000000e+00
20	Lock	10	3.011	0	0	1	0.000000e+00	1.098129e-12
21	Lock	26	6.023	0	0	0	0.000000e+00	0.000000e+00
22	Lock	11	9.035	0	0	0	0.000000e+00	0.000000e+00
23	Lock	27	9.035	0	0	0	0.000000e+00	0.000000e+00
24	Lock	12	6.023	0	0	0	0.000000e+00	0.000000e+00
25	Lock	28	6.023	0	0	0	0.000000e+00	0.000000e+00
26	Lock	13	6.023	0	0	0	0.000000e+00	0.000000e+00
27	Lock	29	9.035	0	0	0	0.000000e+00	0.000000e+00
28	Lock	30	3.011	0	0	1	0.000000e+00	1.098129e-12
29	Lock	14	0.0	0	0	2	0.000000e+00	2.196259e-12
30	Lock	31	6.023	0	0	0	0.000000e+00	0.000000e+00
31	Lock	15	3.011	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	20393769204	20393769204	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,1
link	link up
lineSpeed	800000
transmitDuration	00:00:30.182778505
framesSent	20393769204
framesReceived	20393769204
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	20883219664896
bitsReceived	20883219664896
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	14
fecMaxSymbolErrors	1
fecCorrectedCodewords	14
fecTotalCodewords	5167555792
fecFrameLossRatio	0.000000e+00
preFecBer	4.980168e-13
fecMaxSymbolErrorsBin0	5167555778
fecMaxSymbolErrorsBin1	14
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	24146222737536
l1BitsReceived	24146222737536
transceiverTemp	51
encoding	PAM4 106G
fecStatus	KP4-FEC
transceiverVoltage	3.2231000000000001
minLatency	1500000000001
averageLatency	0
maxLatency	0
Loss_Frames	0
Loss%	0.0