



Keysight Test Report

PASS

Report Header:

Keysight Inc.

Report Date:

2025/06/17 18:29:52

Type:

Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/17 18:28:04
Test End Time	2025/06/17 18:29:52
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(YMMDDLL)	220426			Hardware Revision	1.0	
Media Tech	1310 nm DFB			Media Connector	MPO 1x16					
Cable Length	0.0 m			Identifier Type	QSFP-DD					
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	1.1	Activated (4)	No	No	1	3.42 dBm	241.488 mA	4.02 dBm	No	No
2	1.1	Activated (4)	No	No	2	2.98 dBm	241.728 mA	3.58 dBm	No	No
3	1.1	Activated (4)	No	No	3	1.53 dBm	224.232 mA	2.63 dBm	No	No
4	1.1	Activated (4)	No	No	4	1.87 dBm	224.232 mA	3.34 dBm	No	No
5	1.1	Activated (4)	No	No	5	3.25 dBm	229.208 mA	4.05 dBm	No	No
6	1.1	Activated (4)	No	No	6	3.05 dBm	229.336 mA	3.76 dBm	No	No
7	1.1	Activated (4)	No	No	7	3.28 dBm	225.568 mA	4.37 dBm	No	No
8	1.1	Activated (4)	No	No	8	2.99 dBm	226.296 mA	4.17 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

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	12.047	0.0	0.0	25.0	0.000000e+00	2.727225e-11
0	Lock	16	3.011	0	0	0	0.000000e+00	0.000000e+00
1	Lock	0	0.0	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	2	0.0	0	0	0	0.000000e+00	0.000000e+00
5	Lock	18	3.011	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	0.0	0	0	0	0.000000e+00	0.000000e+00
8	Lock	20	3.011	0	0	5	0.000000e+00	5.495357e-12
9	Lock	4	0.0	0	0	2	0.000000e+00	2.198143e-12
10	Lock	21	3.011	0	0	0	0.000000e+00	0.000000e+00
11	Lock	5	0.0	0	0	0	0.000000e+00	0.000000e+00
12	Lock	22	6.023	0	0	1	0.000000e+00	1.099071e-12
13	Lock	6	3.011	0	0	2	0.000000e+00	2.198143e-12
14	Lock	23	6.023	0	0	0	0.000000e+00	0.000000e+00
15	Lock	7	3.011	0	0	0	0.000000e+00	0.000000e+00
16	Lock	8	0.0	0	0	0	0.000000e+00	0.000000e+00
17	Lock	24	9.035	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	26	12.047	0	0	1	0.000000e+00	1.099071e-12
21	Lock	10	6.023	0	0	0	0.000000e+00	0.000000e+00
22	Lock	27	9.035	0	0	0	0.000000e+00	0.000000e+00
23	Lock	11	6.023	0	0	0	0.000000e+00	0.000000e+00
24	Lock	12	3.011	0	0	0	0.000000e+00	0.000000e+00
25	Lock	28	9.035	0	0	1	0.000000e+00	1.099071e-12
26	Lock	13	3.011	0	0	0	0.000000e+00	0.000000e+00
27	Lock	29	12.047	0	0	0	0.000000e+00	0.000000e+00
28	Lock	14	6.023	0	0	9	0.000000e+00	9.750045e-12
29	Lock	30	12.047	0	0	4	0.000000e+00	4.333353e-12
30	Lock	15	3.011	0	0	0	0.000000e+00	0.000000e+00
31	Lock	31	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	20422263905	20422263905	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,1
link	link up
lineSpeed	800000
transmitDuration	00:00:30.224950661
framesSent	20422263905
framesReceived	20422263905
fragments	0
undersize	0
oversizeAndCrcErrors	0
vlanTaggedFramesRx	0
flowControlFrames	0
bitsSent	20912398238720
bitsReceived	20912398238720
pcsSyncErrorsReceived	0
pcsRemoteFaultsReceived	0
pcsLocalFaultsReceived	0
fecTotalBitErrors	25
fecMaxSymbolErrors	1
fecCorrectedCodewords	25
fecTotalCodewords	5164118736
fecFrameLossRatio	0.000000e+00
preFecBer	8.899075e-13
fecMaxSymbolErrorsBin0	5164118711
fecMaxSymbolErrorsBin1	25
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	24179960463520
l1BitsReceived	24179960463520
transceiverTemp	54
encoding	PAM4 106G
fecStatus	KP4-FEC
transceiverVoltage	3.2162999999999999
minLatency	1500000000001
averageLatency	0
maxLatency	0
Loss_Frames	0
Loss%	0.0