



Keysight Test Report

PASS

Report Header:

Keysight Inc.

Report Date:

2025/06/04 01:39:05

Type:

Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 01:37:12
Test End Time	2025/06/04 01:39:05
Test Duration	00:00:30
Pass/Fail Verdict	PASS
Module Type	1,1,2 - 100GBASE-DR 1,1,4 - 100GBASE-DR
Module Version	1,1,2 - CMIS 5.0 1,1,4 - CMIS 5.0
Serial Number	1,1,2 - DN4D180001 1,1,4 - UNA8490003

Transceiver DOM (Digital Optical Monitoring) - 128

1,1,2										
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(YMMIDDLL)	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	2.1	Activated (4)	No	No	1	3.21 dBm	231.744 mA	0.66 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.77 dBm	232.112 mA	2.44 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.42 dBm	213.488 mA	1.58 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.69 dBm	213.976 mA	-3.80 dBm	No	No
5	2.1	Activated (4)	No	No	5	3.16 dBm	214.832 mA	0.36 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.90 dBm	214.952 mA	0.11 dBm	No	No
7	2.1	Activated (4)	No	No	7	3.06 dBm	214.096 mA	2.12 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.76 dBm	214.216 mA	-0.88 dBm	No	No

1,1/4										
Manufacturer		Eoptolink		Model		EOLO-138HG-5H-SM		Mfg Revision		01
Type		100GBASE-DR		SN		UNA8490003		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				
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	Data Path State	Tx LOS	Tx CDR LOL	Media	Tx Optical	Tx Bias	Rx Optical	Rx LOS	Rx CDR LOL
1	4.1	Activated (4)	No	No	1	2.49 dBm	240.384 mA	4.05 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.16 dBm	240.624 mA	3.32 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.44 dBm	215.600 mA	2.14 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.33 dBm	215.232 mA	2.38 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.15 dBm	184.712 mA	3.55 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.11 dBm	184.592 mA	3.46 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.21 dBm	182.512 mA	3.28 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.11 dBm	182.760 mA	2.22 dBm	No	No

CMIS Applicatio Select

1,1,2

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

1,1,4

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	1,1,2	1,1,4
Pre-FEC Standard	2.400000e-04	2.400000e-04
Pre-FEC Pass/Fail Verdict	PASS	PASS
Post-FEC Standard	9.200000e-13	9.200000e-13
Post-FEC Pass/Fail Verdict	PASS	PASS

PCS Lane Statistics - 128

Port - 1,1,2

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	6.023	0.0	0.0	2898.0	0.000000e+00	3.190828e-09
0	Lock	0	3.011	0	0	1	0.000000e+00	1.117577e-12
1	Lock	16	3.011	0	0	34	0.000000e+00	3.799762e-11
2	Lock	1	0.0	0	0	0	0.000000e+00	0.000000e+00
3	Lock	17	0.0	0	0	0	0.000000e+00	0.000000e+00
4	Lock	18	0.0	0	0	39	0.000000e+00	4.358550e-11
5	Lock	2	0.0	0	0	25	0.000000e+00	2.793943e-11
6	Lock	19	0.0	0	0	1	0.000000e+00	1.117577e-12
7	Lock	3	0.0	0	0	0	0.000000e+00	0.000000e+00
8	Lock	20	0.0	0	0	45	0.000000e+00	5.029097e-11
9	Lock	4	0.0	0	0	33	0.000000e+00	3.688004e-11
10	Lock	21	0.0	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	6	0.0	0	0	89	0.000000e+00	9.789669e-11
13	Lock	22	0.0	0	0	52	0.000000e+00	5.719807e-11
14	Lock	7	0.0	0	0	23	0.000000e+00	2.529915e-11
15	Lock	23	0.0	0	0	13	0.000000e+00	1.429952e-11
16	Lock	24	6.023	0	0	58	0.000000e+00	6.379784e-11
17	Lock	8	6.023	0	0	24	0.000000e+00	2.639911e-11
18	Lock	25	6.023	0	0	0	0.000000e+00	0.000000e+00
19	Lock	9	6.023	0	0	1	0.000000e+00	1.099963e-12
20	Lock	10	6.023	0	0	762	0.000000e+00	8.381717e-10
21	Lock	26	6.023	0	0	729	0.000000e+00	8.018729e-10
22	Lock	11	6.023	0	0	1	0.000000e+00	1.099963e-12
23	Lock	27	6.023	0	0	3	0.000000e+00	3.299889e-12
24	Lock	28	3.011	0	0	447	0.000000e+00	4.916834e-10
25	Lock	12	3.011	0	0	508	0.000000e+00	5.587811e-10
26	Lock	29	6.023	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	3.011	0	0	4	0.000000e+00	4.399851e-12
29	Lock	14	3.011	0	0	6	0.000000e+00	6.599777e-12
30	Lock	31	6.023	0	0	0	0.000000e+00	0.000000e+00
31	Lock	15	6.023	0	0	0	0.000000e+00	0.000000e+00

Port - 1,1,4

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	95.0	0.000000e+00	1.028487e-10
0	Lock	0	3.011	0	0	5	0.000000e+00	5.419562e-12
1	Lock	16	3.011	0	0	4	0.000000e+00	4.335650e-12
2	Lock	1	3.011	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	18	0.0	0	0	2	0.000000e+00	2.167825e-12
5	Lock	2	0.0	0	0	1	0.000000e+00	1.083912e-12
6	Lock	19	3.011	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	3.011	0	0	4	0.000000e+00	4.335650e-12
9	Lock	20	3.011	0	0	22	0.000000e+00	2.384607e-11
10	Lock	5	6.023	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	3.011	0	0	4	0.000000e+00	4.335650e-12
13	Lock	22	3.011	0	0	10	0.000000e+00	1.083912e-11
14	Lock	7	6.023	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	24	6.023	0	0	1	0.000000e+00	1.083912e-12
17	Lock	8	3.011	0	0	5	0.000000e+00	5.419562e-12
18	Lock	25	9.035	0	0	0	0.000000e+00	0.000000e+00
19	Lock	9	6.023	0	0	0	0.000000e+00	0.000000e+00
20	Lock	26	9.035	0	0	5	0.000000e+00	5.419562e-12
21	Lock	10	6.023	0	0	24	0.000000e+00	2.601390e-11
22	Lock	27	9.035	0	0	0	0.000000e+00	0.000000e+00
23	Lock	11	6.023	0	0	1	0.000000e+00	1.068534e-12
24	Lock	12	12.047	0	0	1	0.000000e+00	1.068534e-12
25	Lock	28	12.047	0	0	0	0.000000e+00	0.000000e+00
26	Lock	13	9.035	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	14	6.023	0	0	4	0.000000e+00	4.274136e-12
29	Lock	30	9.035	0	0	2	0.000000e+00	2.137068e-12
30	Lock	15	9.035	0	0	0	0.000000e+00	0.000000e+00
31	Lock	31	9.035	0	0	0	0.000000e+00	0.000000e+00

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	41157297814	41157297814	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,2	Port 1,1,4
link	link up	link up
lineSpeed	800000	800000
transmitDuration	00:00:30.452014666	00:00:30.460786265
framesSent	20575685529	20581612285
framesReceived	20575685529	20581612285
fragments	0	0
undersize	0	0
oversizeAndCrcErrors	0	0
vlanTaggedFramesRx	0	0
flowControlFrames	0	0
bitsSent	21069501981696	21075570979840
bitsReceived	21075570979840	21069501981696
pcsSyncErrorsReceived	0	0
pcsRemoteFaultsReceived	0	0
pcsLocalFaultsReceived	0	0
fecTotalBitErrors	2822	93
fecMaxSymbolErrors	1	1
fecCorrectedCodewords	2822	93
fecTotalCodewords	5221444584	5220716304
fecFrameLossRatio	0.000000e+00	0.000000e+00
preFecBer	9.934990e-11	3.274568e-12
fecMaxSymbolErrorsBin0	5221441762	5220716211
fecMaxSymbolErrorsBin1	2822	93
fecMaxSymbolErrorsBin2	0	0
fecMaxSymbolErrorsBin3	0	0
fecMaxSymbolErrorsBin4	0	0
fecMaxSymbolErrorsBin5	0	0
fecMaxSymbolErrorsBin6	0	0
fecMaxSymbolErrorsBin7	0	0
fecMaxSymbolErrorsBin8	0	0
fecMaxSymbolErrorsBin9	0	0
fecMaxSymbolErrorsBin10	0	0
fecMaxSymbolErrorsBin11	0	0
fecMaxSymbolErrorsBin12	0	0
fecMaxSymbolErrorsBin13	0	0
fecMaxSymbolErrorsBin14	0	0
fecMaxSymbolErrorsBin15	0	0
fecUncorrectableCodewords	0	0
fecTranscodingUncorrectableErrors	0	0
l1BitsSent	24361611666336	24368628945440
l1BitsReceived	24368628945440	24361611666336
transceiverTemp	52	55
encoding	PAM4 106G	PAM4 106G
fecStatus	KP4-FEC	KP4-FEC
transceiverVoltage	3.2265999999999999	3.2450000000000001
minLatency	2254846	85897088201
averageLatency	2254853	4289453
maxLatency	2254858	85897088213
Loss_Frames	0	0
Loss%	0.0	0.0