Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/04 00:48:40
Type:	Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 00:45:41
Test End Time	2025/06/04 00:48:40
Test Duration	00:00:30
Pass/Fail Verdict	PASS
Module Type	1,1,122 - 100GBASE-DR 1,1,124 - 100GBASE-DR
Module Version	1,1,122 - CMIS 5.0 1,1,124 - CMIS 5.0
Serial Number	1,1,122 - DN4D180001 1,1,124 - UNA8490003

Transceiver DOM (Digital Optical Monitoring) - 128

1,1,1Z2					
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	2.1	Activated (4)	No	No	1	3.14 dBm	219.480 mA	0.87 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.69 dBm	219.480 mA	2.24 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.38 dBm	202.816 mA	1.67 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.62 dBm	202.328 mA	-3.54 dBm	No	No
5	2.1	Activated (4)	No	No	5	2.99 dBm	197.712 mA	0.22 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.67 dBm	197.712 mA	0.02 dBm	No	No
7	2.1	Activated (4)	No	No	7	2.94 dBm	198.320 mA	2.11 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.62 dBm	200.264 mA	-1.00 dBm	No	No

1,1,1Z4										
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				
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	4.1	Activated (4)	No	No	1	2.46 dBm	228.552 mA	3.91 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.21 dBm	228.920 mA	3.10 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.38 dBm	203.408 mA	2.01 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.24 dBm	203.064 mA	2.35 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.10 dBm	173.304 mA	3.23 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.04 dBm	174.000 mA	3.22 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.13 dBm	171.600 mA	3.16 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.00 dBm	171.480 mA	2.10 dBm	No	No

CMIS Applicatio Select

1,1,122

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

1,1,124

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	1,1,122	1,1,124
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 - 1,1,122

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	63.0	0.000000e+00	6.984011e-11
0	Lock	0	0.0	0	0	0	0.000000e+00	0.000000e+00
1	Lock	1	0.0	0	0	0	0.000000e+00	0.000000e+00
2	Lock	2	0.0	0	0	0	0.000000e+00	0.000000e+00
3	Lock	3	0.0	0	0	4	0.000000e+00	4.493604e-12
4	Lock	4	0.0	0	0	0	0.000000e+00	0.000000e+00
5	Lock	5	0.0	0	0	0	0.000000e+00	0.000000e+00
6	Lock	6	0.0	0	0	1	0.000000e+00	1.123401e-12
7	Lock	7	0.0	0	0	0	0.000000e+00	0.000000e+00
8	Lock	8	6.023	0	0	2	0.000000e+00	2.246802e-12
9	Lock	9	6.023	0	0	0	0.000000e+00	0.000000e+00
10	Lock	10	6.023	0	0	29	0.000000e+00	3.209487e-11
11	Lock	11	6.023	0	0	2	0.000000e+00	2.213439e-12
12	Lock	12	6.023	0	0	8	0.000000e+00	8.853758e-12
13	Lock	13	6.023	0	0	5	0.000000e+00	5.533598e-12
14	Lock	14	6.023	0	0	12	0.000000e+00	1.328064e-11
15	Lock	15	6.023	0	0	0	0.000000e+00	0.000000e+00

Port - 1,1,124

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	3.011	0.0	0.0	984.0	0.000000e+00	1.087564e-09
0	Lock	0	0.0	0	0	0	0.000000e+00	0.000000e+00
1	Lock	1	0.0	0	0	0	0.000000e+00	0.000000e+00
2	Lock	2	0.0	0	0	10	0.000000e+00	1.106720e-11
3	Lock	3	0.0	0	0	2	0.000000e+00	2.213439e-12
4	Lock	4	0.0	0	0	8	0.000000e+00	8.853758e-12
5	Lock	5	0.0	0	0	1	0.000000e+00	1.106720e-12
6	Lock	6	0.0	0	0	2	0.000000e+00	2.213439e-12
7	Lock	7	0.0	0	0	1	0.000000e+00	1.106720e-12
8	Lock	8	3.011	0	0	323	0.000000e+00	3.574705e-10
9	Lock	9	3.011	0	0	322	0.000000e+00	3.563637e-10
10	Lock	10	3.011	0	0	195	0.000000e+00	2.158103e-10
11	Lock	11	3.011	0	0	13	0.000000e+00	1.438736e-11
12	Lock	12	3.011	0	0	17	0.000000e+00	1.881423e-11
13	Lock	13	3.011	0	0	17	0.000000e+00	1.854071e-11
14	Lock	14	3.011	0	0	59	0.000000e+00	6.434718e-11
15	Lock	15	3.011	0	0	14	0.000000e+00	1.526882e-11

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	20356322827	20356322827	0	0.0

Port Statistics - 128

Port Statistics	Port 1,1,122	Port 1,1,124
link	link up	link up
lineSpeed	400000	400000
transmitDuration	00:00:30.106123113	00:00:30.148592473
framesSent	10170987535	10185335292
framesReceived	10170987535	10185335292
fragments	0	0
undersize	0	0
oversizeAndCrcErrors	0	0
vlanTaggedFramesRx	0	0
flowControlFrames	0	0
bitsSent	10415091235840	10429783339008
bitsReceived	10429783339008	10415091235840
pcsSyncErrorsReceived	0	0
pcsRemoteFaultsReceived	0	0
pcsLocalFaultsReceived	0	0
fecTotalBitErrors	61	950
fecMaxSymbolErrors	1	1
fecCorrectedCodewords	61	950
fecTotalCodewords	2584412120	2584093936
fecFrameLossRatio	0.000000e+00	0.000000e+00
preFecBer	4.338795e-12	6.757972e-11
fecMaxSymbolErrorsBin0	2584412059	2584092986
fecMaxSymbolErrorsBin1	61	950
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	12042449241440	12059436985728
l1BitsReceived	12059436985728	12042449241440
transceiverTemp	49	52
encoding	Unknown	Unknown
fecStatus	KP4-FEC	KP4-FEC
transceiverVoltage	3.2364000000000002	3.2503000000000002
minLatency	2270672	85897075506
averageLatency	2270674	179975802
maxLatency	2270686	85897075521
Loss_Frames	0	0
Loss%	0.0	0.0