



Keysight Test Report

PASS

Report Header:

Keysight Inc.

Report Date:

2025/06/04 00:09:39

Type:

Unframed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/04 00:08:07
Test End Time	2025/06/04 00:09:39
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) - BERT

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(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	2.1	Activated (4)	No	No	1	3.21 dBm	229.456 mA	0.65 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.75 dBm	229.816 mA	2.46 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.43 dBm	211.832 mA	1.57 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.68 dBm	211.832 mA	-3.90 dBm	No	No
5	2.1	Activated (4)	No	No	5	3.12 dBm	211.592 mA	0.34 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.85 dBm	211.104 mA	0.12 dBm	No	No
7	2.1	Activated (4)	No	No	7	3.04 dBm	211.712 mA	2.11 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.73 dBm	211.712 mA	-0.97 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	2.44 dBm	238.200 mA	3.93 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.16 dBm	237.952 mA	3.24 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.41 dBm	212.992 mA	2.08 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.31 dBm	212.992 mA	2.32 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.10 dBm	182.912 mA	3.52 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.07 dBm	183.032 mA	3.41 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.19 dBm	180.472 mA	3.25 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.11 dBm	180.592 mA	2.19 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

Bit Error Ratio	1,1,2	1,1,4
BER Threshold	2.400000e-04	2.400000e-04
Pre-BER Pass/Fail Verdict	PASS	PASS

BERT Statistics

FEC Result Summary

PCS Lane Statistics

L2 Traffic Test Summary

Port Statistics - BERT

Port Statistics	Port 1,1,2	Port 1,1,4
link	link up	link up
transmitState	0	0
lineSpeed	400000	400000
bertBitsSent	13815153835680	14007402976720
bertBitsReceived	13815153838080	14007402977280
bertBitErrorsReceived	52	1048
bertBitErrorRatio	3.760000e-12	7.480000e-11
centralTemperature	42	42
portTemperature	48	50
pcpuFpgaTemperature	33	33
bertTransmitDuration	00:22:05.379269260	00:22:05.379586740
encoding	Unknown	Unknown
transceiverTemp	51	55
transceiverVoltage	3.2393000000000001	3.2452999999999999
minLatency	0	0
averageLatency	0	0
maxLatency	0	0