Keysight Test Report

PASS

Report Header:	Keysight Inc.
Report Date:	2025/06/03 23:45:30
Type:	Framed

SUMMARY

IxOS Version	10.00.1000.17
Test Start Time	2025/06/03 23:42:30
Test End Time	2025/06/03 23:45:30
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	3.13 dBm	222.888 mA	0.74 dBm	No	No
2	2.1	Activated (4)	No	No	2	2.71 dBm	223.376 mA	2.24 dBm	No	No
3	2.1	Activated (4)	No	No	3	1.37 dBm	205.272 mA	1.61 dBm	No	No
4	2.1	Activated (4)	No	No	4	1.62 dBm	205.632 mA	-3.77 dBm	No	No
5	2.1	Activated (4)	No	No	5	3.03 dBm	202.352 mA	0.24 dBm	No	No
6	2.1	Activated (4)	No	No	6	2.74 dBm	202.472 mA	0.05 dBm	No	No
7	2.1	Activated (4)	No	No	7	2.96 dBm	203.928 mA	2.08 dBm	No	No
8	2.1	Activated (4)	No	No	8	2.66 dBm	203.928 mA	-0.99 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	2.43 dBm	231.952 mA	3.94 dBm	No	No
2	4.1	Activated (4)	No	No	2	2.24 dBm	231.488 mA	3.13 dBm	No	No
3	4.1	Activated (4)	No	No	3	2.36 dBm	206.896 mA	2.04 dBm	No	No
4	4.1	Activated (4)	No	No	4	2.27 dBm	206.896 mA	2.31 dBm	No	No
5	4.1	Activated (4)	No	No	5	2.09 dBm	176.144 mA	3.37 dBm	No	No
6	4.1	Activated (4)	No	No	6	2.04 dBm	174.264 mA	3.29 dBm	No	No
7	4.1	Activated (4)	No	No	7	2.14 dBm	173.776 mA	3.18 dBm	No	No
8	4.1	Activated (4)	No	No	8	2.03 dBm	173.896 mA	2.12 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	9.035	0.0	0.0	46.0	0.000000e+00	5.138405e-11
0	Lock	0	6.023	0	0	1	0.000000e+00	1.119903e-12
1	Lock	1	3.011	0	0	0	0.000000e+00	0.000000e+00
2	Lock	2	3.011	0	0	0	0.000000e+00	0.000000e+00
3	Lock	3	0.0	0	0	0	0.000000e+00	0.000000e+00
4	Lock	4	3.011	0	0	1	0.000000e+00	1.119903e-12
5	Lock	5	3.011	0	0	0	0.000000e+00	0.000000e+00
6	Lock	6	6.023	0	0	6	0.000000e+00	6.719416e-12
7	Lock	7	6.023	0	0	1	0.000000e+00	1.119903e-12
8	Lock	8	9.035	0	0	0	0.000000e+00	0.000000e+00
9	Lock	9	9.035	0	0	0	0.000000e+00	0.000000e+00
10	Lock	10	9.035	0	0	8	0.000000e+00	8.959221e-12
11	Lock	11	9.035	0	0	1	0.000000e+00	1.119903e-12
12	Lock	12	9.035	0	0	9	0.000000e+00	1.007912e-11
13	Lock	13	9.035	0	0	11	0.000000e+00	1.231893e-11
14	Lock	14	9.035	0	0	8	0.000000e+00	8.827751e-12
15	Lock	15	9.035	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	12.047	0.0	0.0	620.0	0.000000e+00	6.841507e-10
0	Lock	0	6.023	0	0	1	0.000000e+00	1.103469e-12
1	Lock	1	3.011	0	0	0	0.000000e+00	0.000000e+00
2	Lock	2	3.011	0	0	8	0.000000e+00	8.827751e-12
3	Lock	3	0.0	0	0	0	0.000000e+00	0.000000e+00
4	Lock	4	3.011	0	0	235	0.000000e+00	2.593152e-10
5	Lock	5	3.011	0	0	9	0.000000e+00	9.931220e-12
6	Lock	6	6.023	0	0	0	0.000000e+00	0.000000e+00
7	Lock	7	6.023	0	0	1	0.000000e+00	1.103469e-12
8	Lock	8	12.047	0	0	4	0.000000e+00	4.413875e-12
9	Lock	9	12.047	0	0	3	0.000000e+00	3.310407e-12
10	Lock	10	9.035	0	0	77	0.000000e+00	8.496710e-11
11	Lock	11	9.035	0	0	30	0.000000e+00	3.310407e-11
12	Lock	12	9.035	0	0	4	0.000000e+00	4.413875e-12
13	Lock	13	9.035	0	0	4	0.000000e+00	4.413875e-12
14	Lock	14	9.035	0	0	207	0.000000e+00	2.284180e-10
15	Lock	15	9.035	0	0	37	0.000000e+00	4.082835e-11

L2 Traffic Test Summary

Frame Size	Tx Count	Rx Count	Loss Count	Loss %
128	20404645584	20404645584	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	00:00:30.197526715	00:00:30.200224230
framesSent	10201867130	10202778454
framesReceived	10201867130	10202778454
fragments	0	0
undersize	0	0
oversizeAndCrcErrors	0	0
vlanTaggedFramesRx	0	0
flowControlFrames	0	0
bitsSent	10446711941120	10447645136896
bitsReceived	10447645136896	10446711941120
pcsSyncErrorsReceived	0	0
pcsRemoteFaultsReceived	0	0
pcsLocalFaultsReceived	0	0
fecTotalBitErrors	46	601
fecMaxSymbolErrors	1	1
fecCorrectedCodewords	46	601
fecTotalCodewords	2592701888	2592338152
fecFrameLossRatio	0.000000e+00	0.000000e+00
preFecBer	3.261417e-12	4.261710e-11
fecMaxSymbolErrorsBin0	2592701842	2592337551
fecMaxSymbolErrorsBin1	46	601
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	12079010681920	12080089689536
l1BitsReceived	12080089689536	12079010681920
transceiverTemp	50	53
encoding	Unknown	Unknown
fecStatus	KP4-FEC	KP4-FEC
transceiverVoltage	3.2332000000000001	3.2532999999999999
minLatency	2250020	85897096153
averageLatency	2250021	225285685
maxLatency	2250035	85897096168
Loss_Frames	0	0
Loss%	0.0	0.0