



FTBx-8870 Report

| nooksackvalley-k12 |

FAIL

Report Header:	EXFO Inc.
Report Title:	nooksackvalley-k12
Report Date:	1/8/2021 4:26:34 PM
Type:	RFC 2544

Job Information

Job ID:	RTASK1698827
Circuit ID:	startouch:NOOWESK2-1G-060220
Contractor Name:	
Customer Name:	nooksackvalley-k12
Operator Name:	danielh
Comment:	

Table of contents

SUMMARY	1
TEST RESULTS	5
TEST SETUP	12
FUNCTIONS	13
SYSTEM INFORMATION	13
LOGGER	16

SUMMARY

Results Summary

Test Status	
Throughput	Completed 00d:00:10:56
Frame Loss	Completed 00d:00:01:47
Latency	Completed 00d:00:01:17
Pass/Fail Verdict	FAIL
Start Time	1/8/2021 04:11:16 PM
Test Recovery	0

RFC 2544

Pass/Fail Verdict	
Throughput	FAIL
Frame Loss	FAIL
Latency	PASS

Throughput				
	(Mbit/s)			(Frame/s)
	Layer			
	All	Ethernet	IP	
64	801.24	610.47	438.77	1192336.3051
128	968.74	837.83	720.01	818201.0002
256	981.24	910.14	846.15	444406.6963
512	987.49	950.37	916.96	232025.3680
1024	969.99	951.41	934.69	116139.8452
1280	943.74	929.23	916.16	90745.1888
1518	988.74	975.89	964.32	80360.0417

	Frame Loss (% 10.0000% Step)	Latency (ms, Cut Through) Mode
64	4.487	4.15885
128	2.571	4.27311
256	1.363	4.38139
512	0.682	4.33296
1024	0.310	4.44315
1280	0.233	4.39933
1518	0.201	4.44190

RX Power Level		
	Min	Max
Power Range (dBm)	-19.0	-1.0
RX Power Level (dBm)	-2.1	-2.0

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	-0.1	0.0

Alarms/Errors

Alarms/Errors List

Active/Historical Alarms/Errors

None

Interface

Alarms	Seconds
LOS	0
Frequency	0

Clock Sync

Alarm	Seconds
LOC	0

Ethernet

Alarms	Seconds
Link Down	0
Local Fault Detected	0
Local Fault Received	0
Remote Fault	0

Errors	Seconds	Count	Rate
Block	0	0	0.00E00
FCS	0	0	0.00E00
Jabber	0	0	0.00E00
Oversize	Disabled		
Runt	0	0	0.00E00
Undersize	0	0	0.00E00
Total		0	

IP/UDP

Errors	Seconds	Count	Rate
IP Checksum	0	0	0.00E00
UDP Checksum	0	0	0.00E00
Total		0	

Setup Summary

Application Type	RFC 2544
-------------------------	----------

Interface	Port 1
Interface/Rate	10GE LAN
Connector	SFP+

Flow Control	None
---------------------	------

Framing: MAC/IP/UDP

IP Version	IPv4
-------------------	------

	MAC	IP Address	UDP Port
Source	00:03:01:F8:22:DD	10.112.0.1 / 255.255.255.0	49184
Destination	00:03:01:10:33:77	10.112.0.26	7

EtherType	0x0800
Automatic IP (DHCP)	Disabled
TTL	128
TOS	0x00
Default Gateway	Disabled

RFC 2544

Frame Size Distribution (Bytes)				
64	128	256	512	1024
1280	1518			

Enabled Subtests			
Throughput	Max. Rate (Mbit/s)	Threshold (Mbit/s)	Accuracy (Mbit/s)
	1000.00	1000.0	10
Frame Loss	Max. Rate (Mbit/s)	Threshold (%)	Granularity (%)
	1000.00	0.01	10
Latency	Max. Rate (Mbit/s)	Threshold (ms)	
	1000.00	28.00000	

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	453
Broadcast	76	0
Unicast	153033994	151980554
Non-Unicast	76	453
Total	153034070	151981007

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	70430802	46.3
65 - 127	422	0.0
128 - 255	36542110	24.0
256 - 511	19797724	13.0
512 - 1023	10311317	6.7
1024 - 1518	14898632	9.8
> 1518	0	0.0
Total	151981007	

Flow Control Monitoring

Frame Count	
Pause Frames	0
Abort Frames	0
Frames RX	0
Frames TX	0

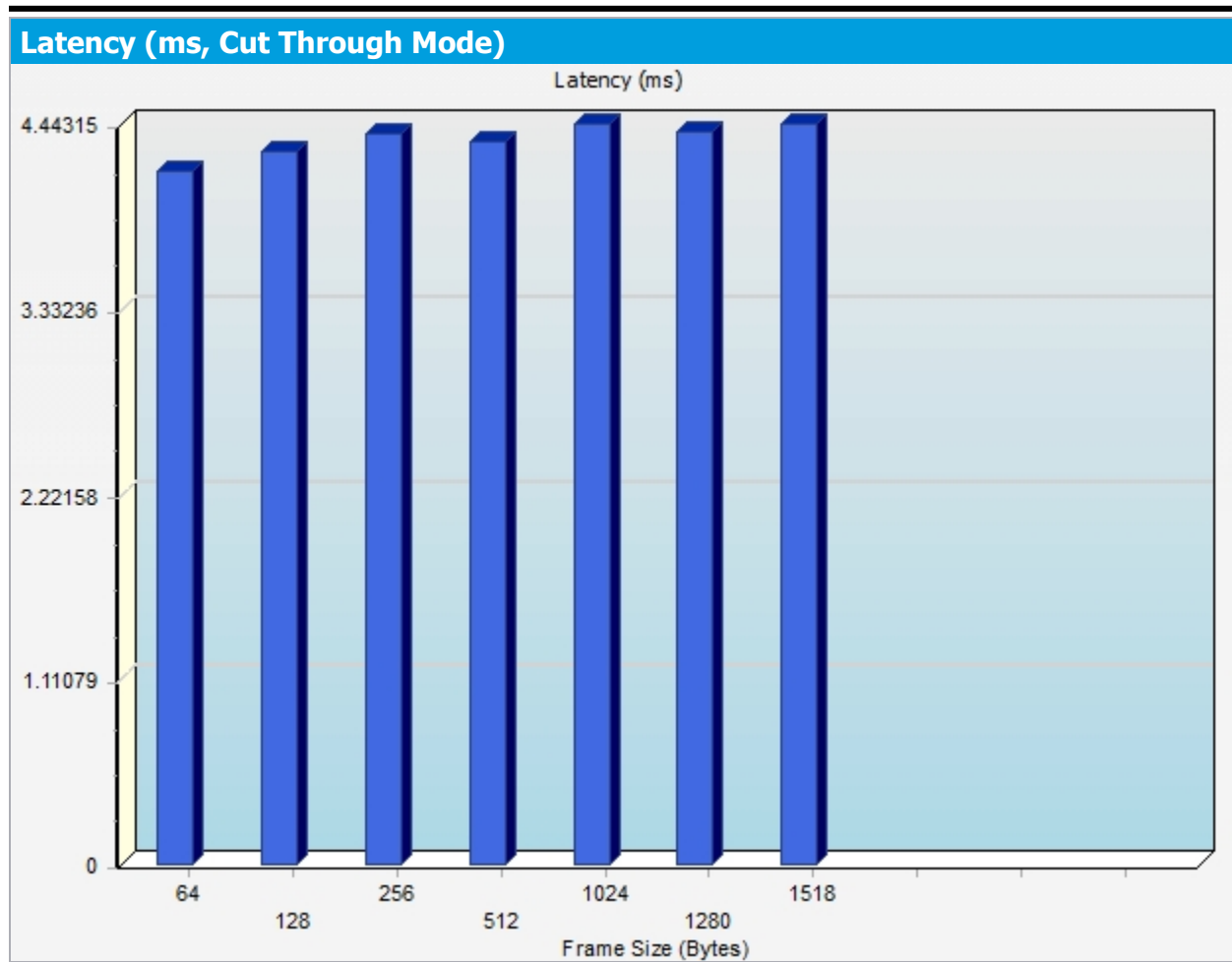
Pause Time (Quanta)
Total Pause Time
Last Pause Time
Minimum Pause Time
Maximum Pause Time

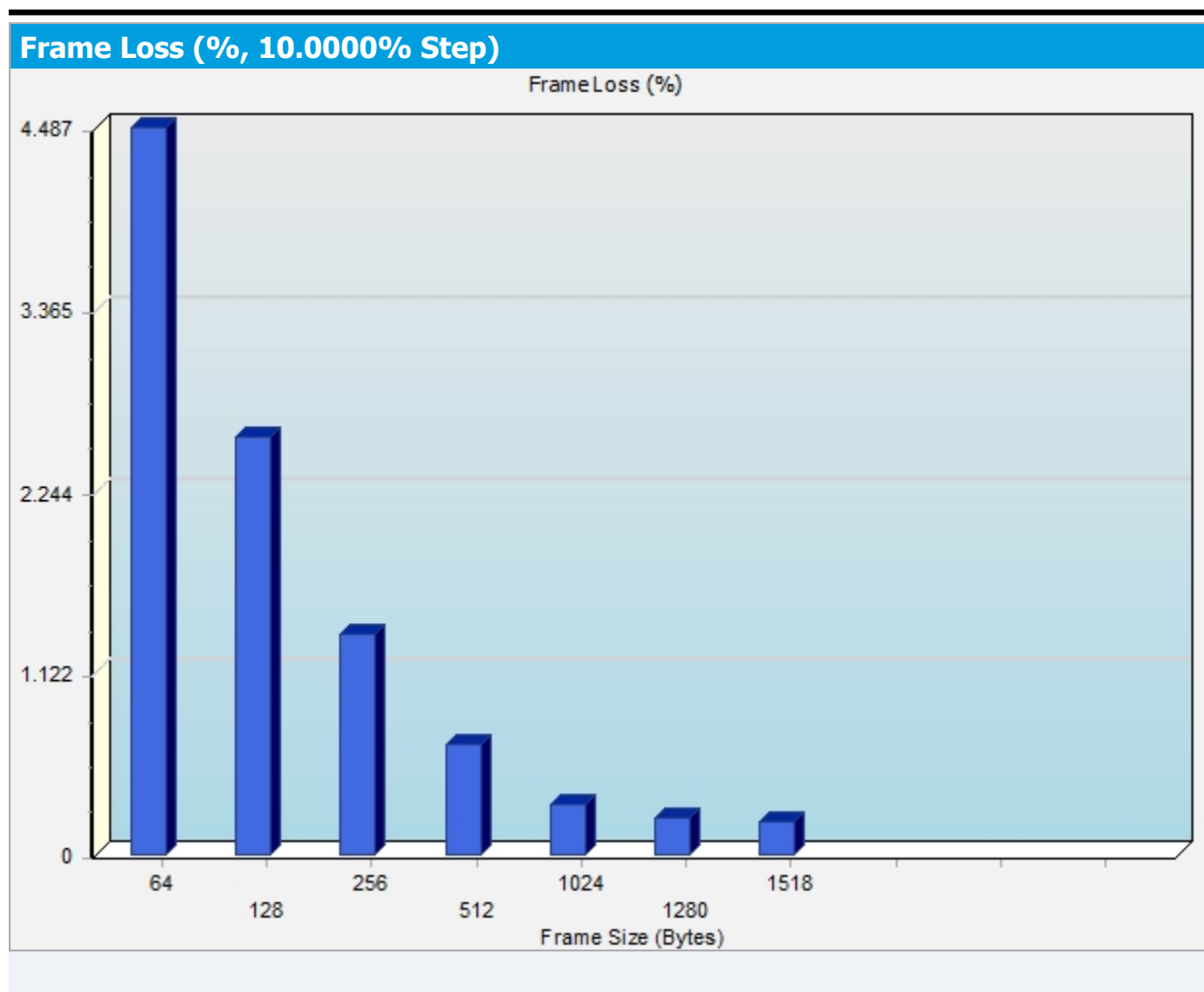
RFC 2544

Pass/Fail Verdict	
Throughput	FAIL
Frame Loss	FAIL
Latency	PASS

		Throughput			
		(Mbit/s)			(Frame/s)
		Layer			
		All	Ethernet	IP	
64	Min.	801.24	610.47	438.77	1192336.3051
	Max.	801.24	610.47	438.77	1192336.3051
	Avg.	801.24	610.47	438.77	1192336.3051
128	Min.	968.74	837.83	720.01	818201.0002
	Max.	968.74	837.83	720.01	818201.0002
	Avg.	968.74	837.83	720.01	818201.0002
256	Min.	981.24	910.14	846.15	444406.6963
	Max.	981.24	910.14	846.15	444406.6963
	Avg.	981.24	910.14	846.15	444406.6963
512	Min.	987.49	950.37	916.96	232025.3680
	Max.	987.49	950.37	916.96	232025.3680
	Avg.	987.49	950.37	916.96	232025.3680
1024	Min.	969.99	951.41	934.69	116139.8452
	Max.	969.99	951.41	934.69	116139.8452
	Avg.	969.99	951.41	934.69	116139.8452
1280	Min.	943.74	929.23	916.16	90745.1888
	Max.	943.74	929.23	916.16	90745.1888
	Avg.	943.74	929.23	916.16	90745.1888
1518	Min.	988.74	975.89	964.32	80360.0417
	Max.	988.74	975.89	964.32	80360.0417
	Avg.	988.74	975.89	964.32	80360.0417

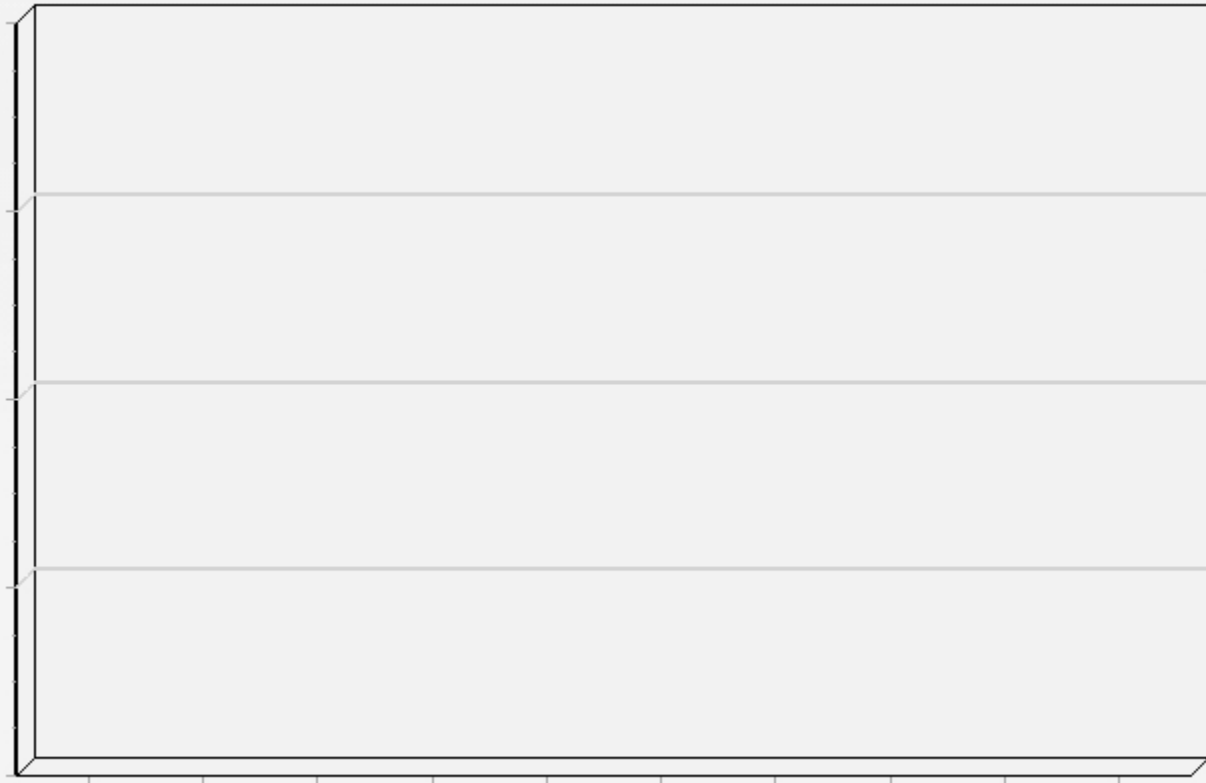
		Frame Loss (%, 10.0000% Step)	Latency (ms, Cut Through) Mode
64	Min.	4.487	4.15885
	Max.	4.487	4.15885
	Avg.	4.487	4.15885
128	Min.	2.571	4.27311
	Max.	2.571	4.27311
	Avg.	2.571	4.27311
256	Min.	1.363	4.38139
	Max.	1.363	4.38139
	Avg.	1.363	4.38139
512	Min.	0.682	4.33296
	Max.	0.682	4.33296
	Avg.	0.682	4.33296
1024	Min.	0.310	4.44315
	Max.	0.310	4.44315
	Avg.	0.310	4.44315
1280	Min.	0.233	4.39933
	Max.	0.233	4.39933
	Avg.	0.233	4.39933
1518	Min.	0.201	4.44190
	Max.	0.201	4.44190
	Avg.	0.201	4.44190



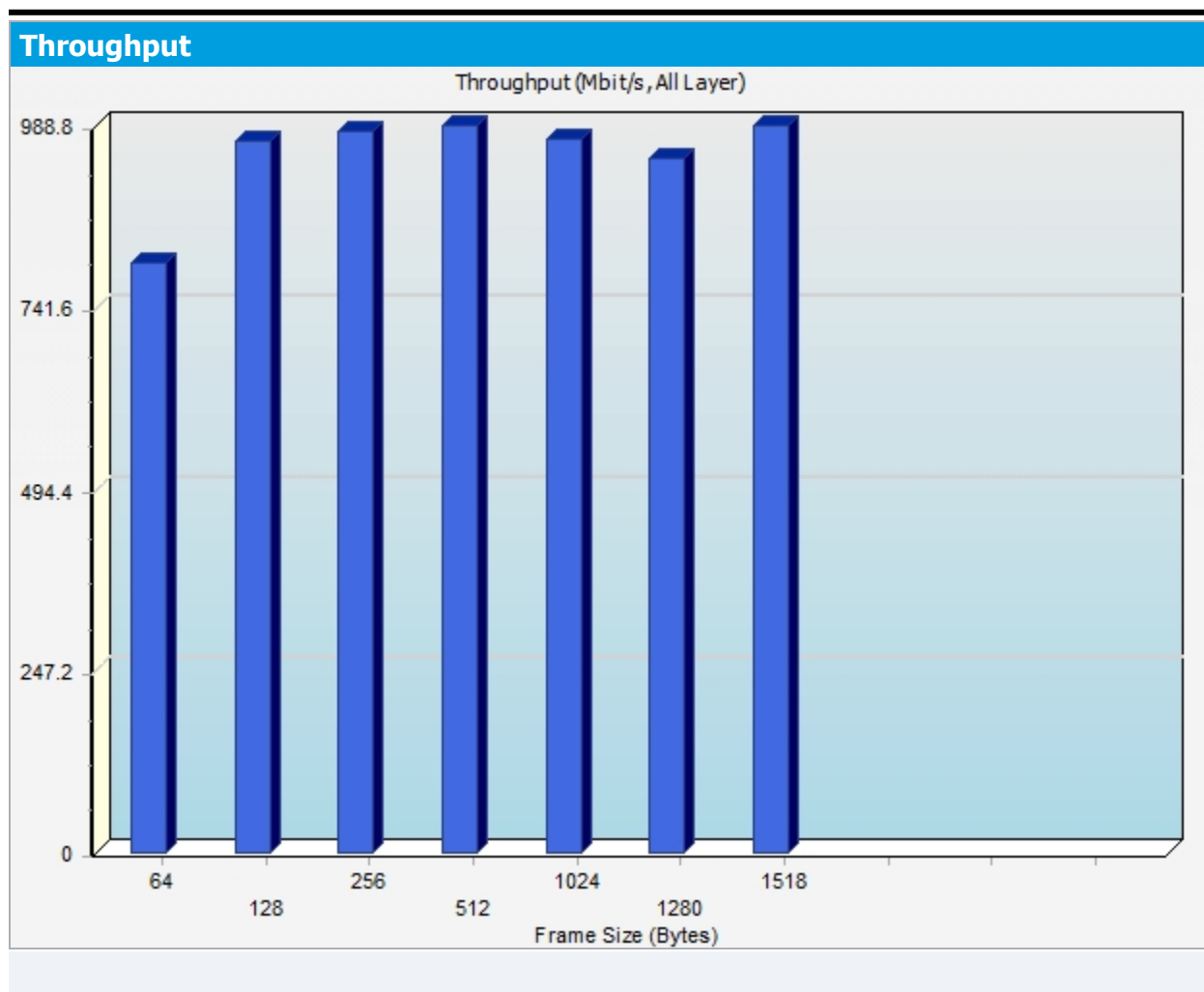


Back-to-Back

Back-to-Back (Mbit/s, All Layer)



Frame Size (Bytes)



TEST SETUP

Clock Synchronization

Clock Mode	Internal
------------	----------

RFC 2544

Frame Size Distribution (Bytes)

64	128	256	512	1024
1280	1518			

Enabled Subtests

Throughput	Max. Rate (Mbit/s)	Trial Duration (MM:SS)	Trials	Accuracy (Mbit/s)	Acceptable Errors	Validations
	1000.00	00:05	1	10	0	1
Frame Loss	Max. Rate (Mbit/s)	Trial Duration (MM:SS)	Trials	Granularity (%)		
	1000.00	00:05	1	10		
Latency	Max. Rate (Mbit/s)	Trial Duration (MM:SS)	Trials			
	801.24 - 988.74 (Frame Size Dependent)	00:01	1			

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:F8:22:DD
Source IP Address	10.112.0.1 (Stream 1)
Destination IP Address	10.112.0.26

Ping	
Timeout (ms)	4000
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Statistics	
Packets Transmitted	--
Packets Received	--
Percentage Lost (%)	--
Minimum Round Trip Time (ms)	--
Maximum Round Trip Time (ms)	--
Average Round Trip Time (ms)	--

Trace Route	
Timeout (ms)	4000
Max Hop Count	128

SYSTEM INFORMATION

Product Name	Power Blazer Series
Version	Power Blazer Series 1.75
Module ID	FTBx-8870
Slot ID	1
Software Product Version	1.75.0.85
	Power Blazer Series 1.75
Assembly Hardware Revision	B
Serial Number	1343183
Calibration Date	4/20/2020 9:30:00 PM

Pluggable Module

Module ID	SFP+
Vendor Name	WFS
Part Number	10GB-SFP-LR-JN
Serial Number	WFJNXPL917
Hardware Revision	1.0
Connector Type	LC
Speed	10G
Type/Compliance Code	LR, 10.0 km (SMF)
Wavelength	1310 nm
Mode	Single-Mode Fiber
Power Class	Power Class 1 Module (<= 1W max)
Temperature (Max)	26.7 °C

Software Options

DS1-FDL	DS1/1.5M Facility Data Link	Disabled
---------	-----------------------------	----------

CPRI-10.1G	CPRI 10.1376 Gbit/s	Disabled
SDH	Synchronous Digital Hierarchy	Enabled
SONET	Synchronous Optical Network	Enabled
622M	622 Mbit/s	Disabled
eCPRI-10G	eCPRI over 10G Ethernet	Disabled
DSn	Digital Signal (DS1, DS3)	Disabled
PDH	Plesiochronous Digital Hierarchy (E1, E3, E4)	Disabled
155M	155 Mbit/s	Disabled
2488M	2.488 Gbit/s	Disabled
10G_LAN	Ethernet 10G LAN optical interface	Enabled
10G_WAN	Ethernet 10G WAN optical interface	Enabled
L2-Transparency	L2CP Handling Test in EtherSAM	Disabled
TCM	Tandem Connection Monitoring HO/LO	Disabled
G82752	ITU-T G.8275.2 Profile	Disabled
TunableOptics	Tunable Wavelength Support for SFP+	Disabled
9953M	9.953 Gbit/s	Disabled
OTU1	Optical Transport Unit-1 (2.7 Gbit/s)	Disabled
OTU2	Optical Transport Unit-2 (10.7 Gbit/s)	Disabled
100optical	Ethernet 100Base-FX (Optical) Interface	Disabled
GigE_Optical	Ethernet 1000Base-X (Optical) Interface	Enabled
GigE_Electrical	Ethernet 1000Base-T (Electrical) Interface	Enabled
FC-1X	Fibre Channel 1X	Disabled
FC-2X	Fibre Channel 2X	Disabled
TCP-THPUT	Tcp Throughput Test Application	Disabled
100electrical	Ethernet 100Base-TX (Electrical) Interface	Enabled
10electrical	Ethernet 10Base-T (Electrical) Interface	Enabled
ODUMUX	ODU Multiplexing Payload Type 20 and 21	Disabled
FC-10X	Fibre Channel 10X	Disabled
OTU2-1e-2e	Optical Transport Unit-2 Overclocked (11.049/11.096 Gbit/s)	Disabled
FC-4X	Fibre Channel 4X	Disabled
ADV-FILTERS	Advanced Filtering	Disabled
MPLS	MPLS Encapsulation (10GE and less)	Disabled
IPV6	Internet Protocol Version 6 (IPv6) (10GE and less)	Disabled
OTN-INTR-THRU	OTN Intrusive Through Mode	Disabled
EoOTN	Ethernet over Optical Transport Network	Disabled
ETH-THRU	Through Mode Test Application	Disabled
OTU2-1f-2f	Optical Transport Unit-2 Overclocked (11.270/11.317 Gbit/s)	Disabled
Cable_Test	Cable Test	Disabled
ODU0	OTN ODU0	Disabled
ETH-CAPTURE	Ethernet Frame Capture for Advanced Troubleshooting	Disabled
ODUflex	OTN ODUflex	Disabled
TRAFFIC-SCAN	Traffic Scan	Disabled
52M	52 Mbit/s	Enabled
NI-CSU	NI/CSU Emulation	Disabled
FC-8X	Fibre Channel 8X	Disabled
CPRI	CPRI 2.4576 Gbit/s and 3.072 Gbit/s	Disabled

OBSAI	OBSAI 3.072 Gbit/s	Disabled
1588PTP	1588 Precision Time Protocol	Disabled
SyncE	Synchronous Ethernet	Disabled
ETH-OAM	Carrier Ethernet OAM Test Application	Disabled
CPRI-1.2G	CPRI 1.2288 Gbit/s	Disabled
CPRI-4.9G	CPRI 4.9152 Gbit/s	Disabled
CPRI-6.1G	CPRI 6.144 Gbit/s	Disabled
CPRI-9.8G	CPRI 9.8304 Gbit/s	Disabled
DUAL-PORT	Dual Port Test	Disabled
RFC6349	RFC 6349 Test Application (10GE and less)	Disabled
iSAM	Intelligent Service Activation Methodology	Disabled
PoE	Power Over Ethernet	Disabled
LINK-OAM	Link OAM	Disabled
DP-CPRI	Dual Port CPRI	Disabled
TST-OAM	Test Over Service OAM	Disabled
G82751	ITU-T G.8275.1 Profile	Disabled
iOptics	Intelligent Pluggable Optic Test Application	Disabled
EoE	Ethernet over Ethernet Encapsulation (10GE and less)	Disabled
PBBTE	Provider Backbone Bridge Encapsulation (10GE and less)	Disabled
RFC6349-EXFOWorx	Enables EXFO Worx Interop Operation Mode	Disabled
GCC-BERT	OTN Overhead BERT and Synchronization Validation	Disabled
OBSAI-1.5G	OBSAI 1.536 Gbit/s	Disabled
OBSAI-6.1G	OBSAI 6.144 Gbit/s	Disabled
DTS-NAT	NAT Traversal for DTS applications	Disabled

LOGGER

ID	Start Time	Event	Duration	Details
1	01/08 04:11:16 PM	Test Started		2021-01-08
2	01/08 04:25:20 PM	Test Stopped		 FAIL