



FTBx-8870 Report

FAIL

Report Header: EXFO Inc.
Report Title:
Report Date: 9/17/2020 9:55:23 AM
Type: RFC 2544

Job Information

Job ID:
Circuit ID: WA39F10CH20
Contractor Name:
Customer Name: nachesvalley-k12
Operator Name: daniel dh
Comment:

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SUMMARY

Results Summary

Test Status	
Throughput	Completed 00d:00:03:05
Back-to-Back	Completed 00d:00:15:51
Frame Loss	Completed 00d:00:01:18
Latency	Completed 00d:00:01:17
Pass/Fail Verdict	FAIL
Start Time	9/17/2020 09:31:59 AM
Test Recovery	0

RFC 2544

Pass/Fail Verdict	
Throughput	FAIL
Back-to-Back	FAIL
Frame Loss	FAIL
Latency	PASS

Throughput (Mbit/s)			
Layer			
	All	Ethernet	IP
64	189.99	144.76	104.04
128	425.00	367.56	315.87
256	854.99	793.04	737.28
512	949.99	914.28	882.14
1024	949.99	931.80	915.42
1280	949.99	935.38	922.23
1518	949.99	937.64	926.52

Back-to-Back (Mbit/s)			
Layer			
	All	Ethernet	IP
64	0.42	0.32	0.23
128	0.65	0.56	0.48
256	1.19	1.10	1.02
512	2.28	2.20	2.12
1024	2.91	2.85	2.80
1280	3.30	3.25	3.21
1518	3.64	3.59	3.55

	Frame Loss (% 9.5000% Step)	Latency (ms, Cut Through) Mode
64	65.525	10.12179
128	39.371	10.17943
256	0.015	10.24165
512	0.000	9.71832
1024	0.000	9.63980
1280	0.000	9.69472
1518	0.000	9.66187

RX Power Level		
	Min	Max
Power Range (dBm)	-15.0	0.5
RX Power Level (dBm)	-2.8	-2.7

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	-0.5	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
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Interface	Port 1
Interface/Rate	10GE LAN
Connector	SFP+

Flow Control	None
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Framing: MAC/IP/UDP

IP Version	IPv4
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	MAC	IP Address	UDP Port
Source	00:03:01:F8:22:D8	10.112.0.1 / 255.255.255.0	49184
Destination	00:03:01:10:2D:1C	10.112.0.16	7

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

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

Enabled Subtests			
Throughput	Max. Rate (Mbit/s)	Threshold (Mbit/s)	Accuracy (Mbit/s)
	950.00	950.0	100
Back-to-Back	Burst Time (MM:SS)	Threshold (%)	Accuracy (Frames)
	00:01	100.0	1
Frame Loss	Max. Rate (Mbit/s)	Threshold (%)	Granularity (%)
	950.00	0.1	10
Latency	Max. Rate (Mbit/s)		Threshold (ms)
	950.00		125.00000

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	736
Broadcast	201	22
Unicast	81451570	16350418
Non-Unicast	201	758
Total	81451771	16351176

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	4459171	27.2
65 - 127	0	0.0
128 - 255	5238419	32.0
256 - 511	3415693	20.8
512 - 1023	1429280	8.7
1024 - 1518	1808613	11.0
> 1518	0	0.0
Total	16351176	

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	

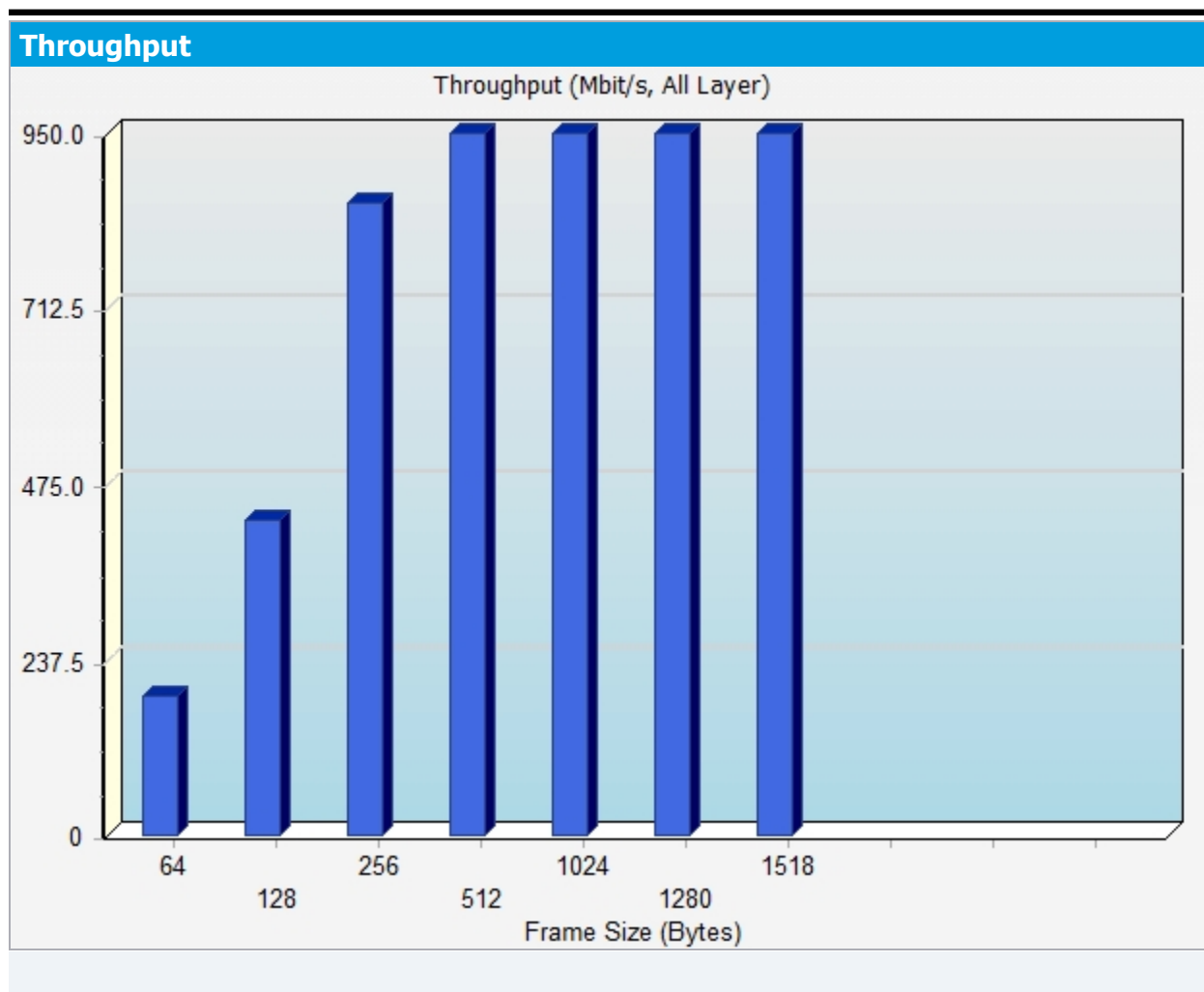
RFC 2544

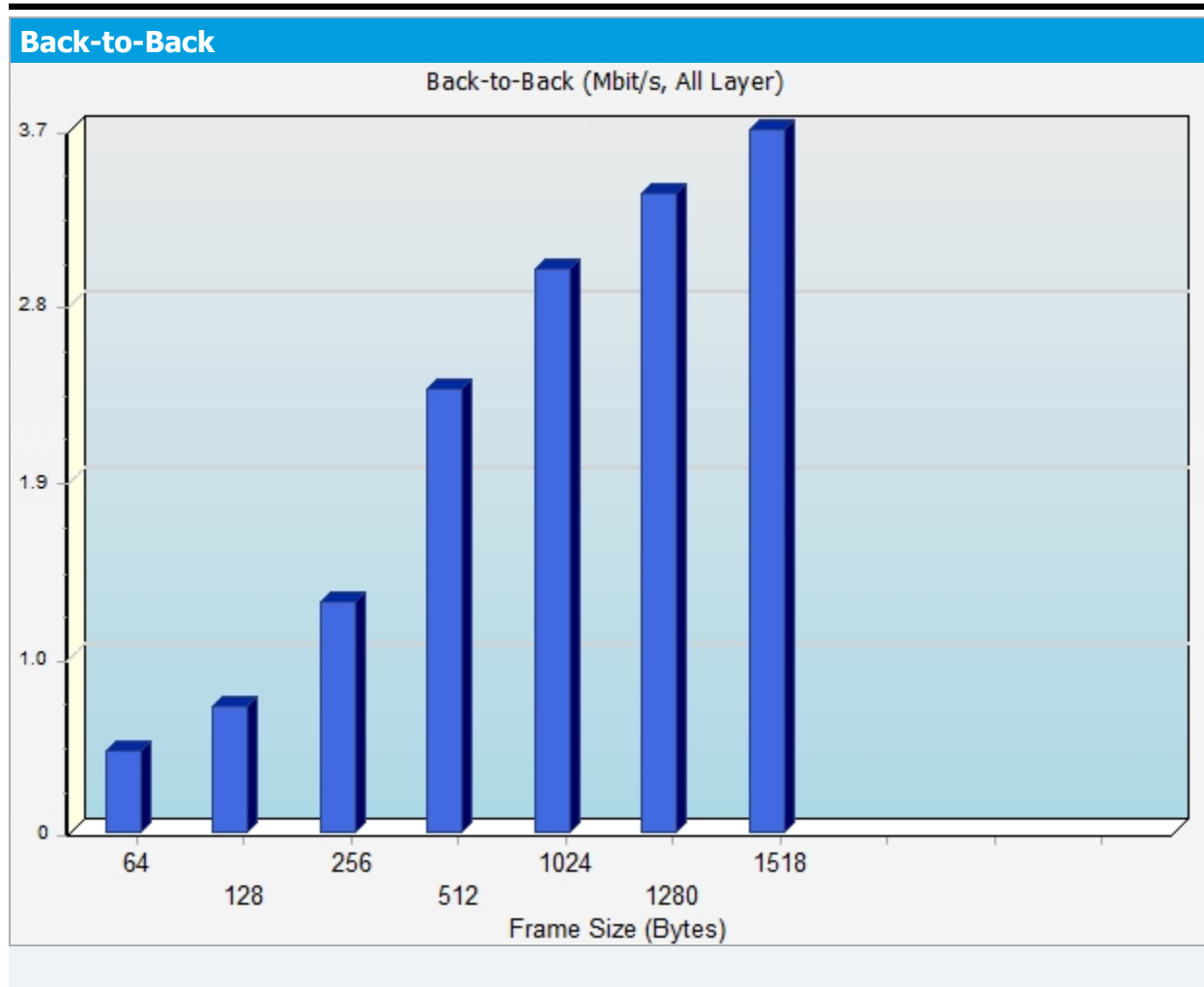
Pass/Fail Verdict	
Throughput	FAIL
Back-to-Back	FAIL
Frame Loss	FAIL
Latency	PASS

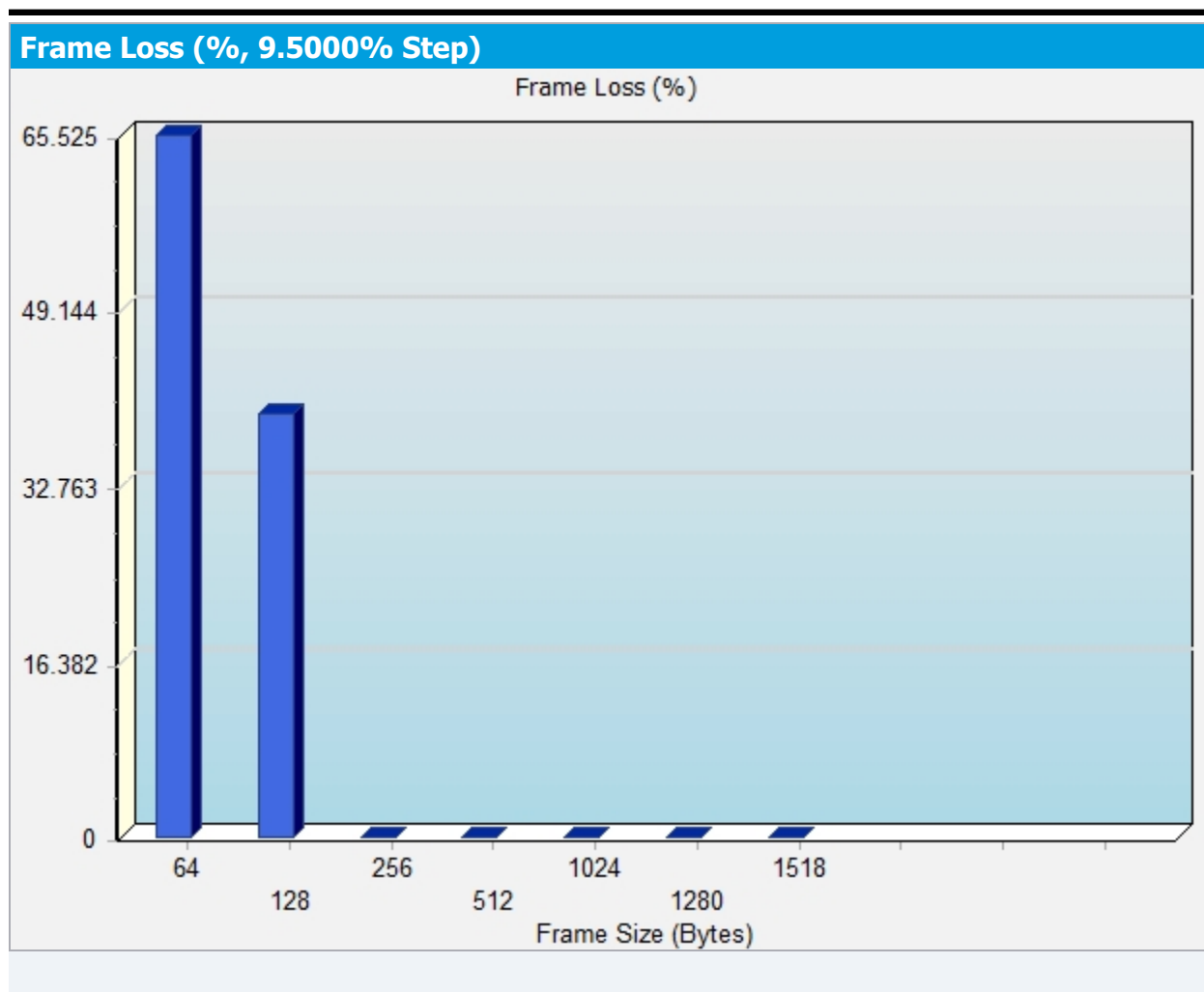
		Throughput			
		(Mbit/s)			(Frame/s)
		Layer			
		All	Ethernet	IP	
64	Min.	189.99	144.76	104.04	282738.0929
	Max.	189.99	144.76	104.04	282738.0929
	Avg.	189.99	144.76	104.04	282738.0929
128	Min.	425.00	367.56	315.87	358952.7025
	Max.	425.00	367.56	315.87	358952.7025
	Avg.	425.00	367.56	315.87	358952.7025
256	Min.	854.99	793.04	737.28	387228.2543
	Max.	854.99	793.04	737.28	387228.2543
	Avg.	854.99	793.04	737.28	387228.2543
512	Min.	949.99	914.28	882.14	223214.2778
	Max.	949.99	914.28	882.14	223214.2778
	Avg.	949.99	914.28	882.14	223214.2778
1024	Min.	949.99	931.80	915.42	113745.2067
	Max.	949.99	931.80	915.42	113745.2067
	Avg.	949.99	931.80	915.42	113745.2067
1280	Min.	949.99	935.38	922.23	91346.1506
	Max.	949.99	935.38	922.23	91346.1506
	Avg.	949.99	935.38	922.23	91346.1506
1518	Min.	949.99	937.64	926.52	77210.6605
	Max.	949.99	937.64	926.52	77210.6605
	Avg.	949.99	937.64	926.52	77210.6605

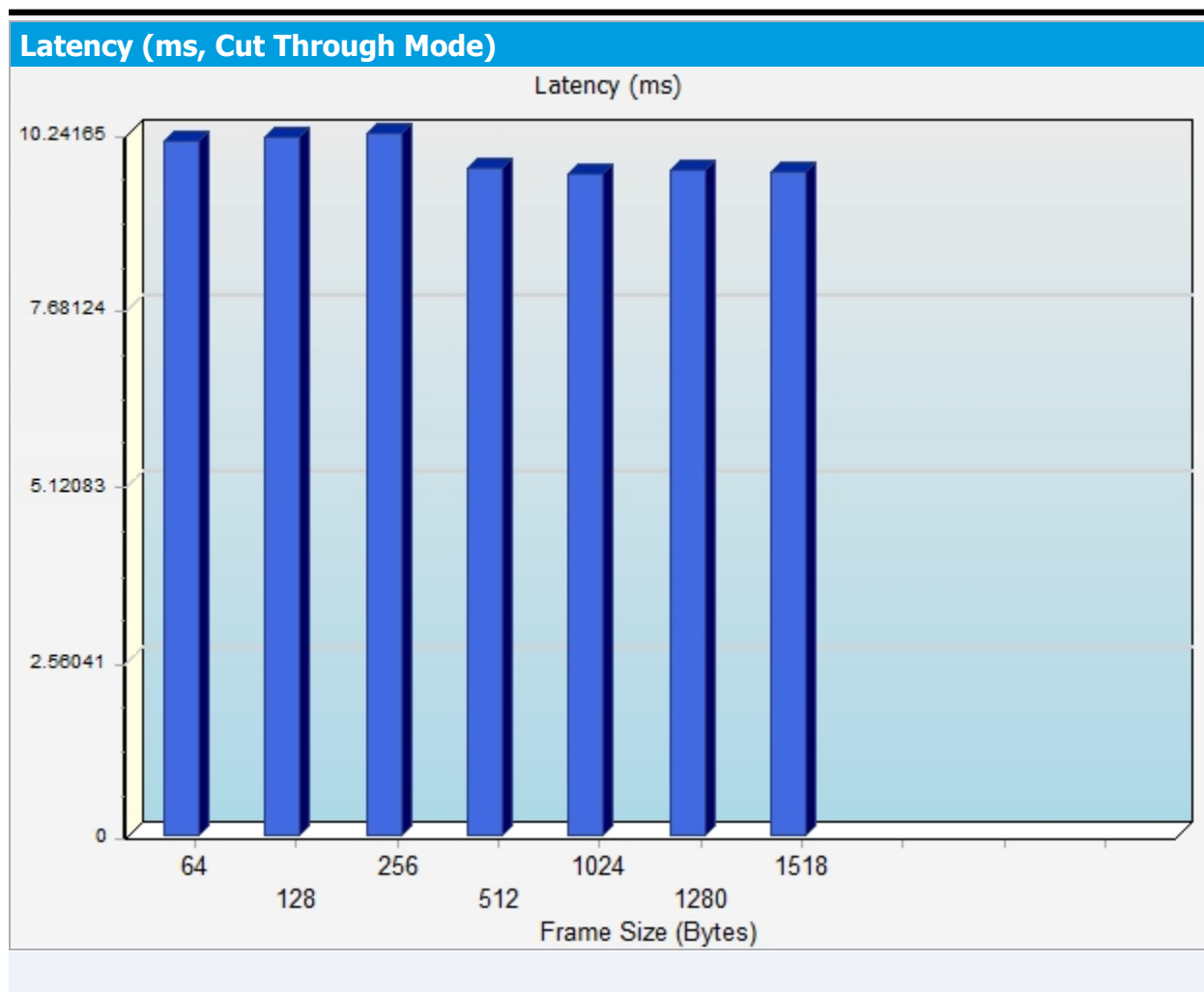
		Back-to-Back			
		(Mbit/s) Layer			(f/burst)
		All	Ethernet	IP	
64	Min.	0.42	0.32	0.23	632
	Max.	0.42	0.32	0.23	632
	Avg.	0.42	0.32	0.23	632
128	Min.	0.65	0.56	0.48	555
	Max.	0.65	0.56	0.48	555
	Avg.	0.65	0.56	0.48	555
256	Min.	1.19	1.10	1.02	540
	Max.	1.19	1.10	1.02	540
	Avg.	1.19	1.10	1.02	540
512	Min.	2.28	2.20	2.12	538
	Max.	2.28	2.20	2.12	538
	Avg.	2.28	2.20	2.12	538
1024	Min.	2.91	2.85	2.80	349
	Max.	2.91	2.85	2.80	349
	Avg.	2.91	2.85	2.80	349
1280	Min.	3.30	3.25	3.21	318
	Max.	3.30	3.25	3.21	318
	Avg.	3.30	3.25	3.21	318
1518	Min.	3.64	3.59	3.55	296
	Max.	3.64	3.59	3.55	296
	Avg.	3.64	3.59	3.55	296

		Frame Loss (%, 9.5000% Step)	Latency (ms, Cut Through) Mode
64	Min.	65.525	10.12179
	Max.	65.525	10.12179
	Avg.	65.525	10.12179
128	Min.	39.371	10.17943
	Max.	39.371	10.17943
	Avg.	39.371	10.17943
256	Min.	0.015	10.24165
	Max.	0.015	10.24165
	Avg.	0.015	10.24165
512	Min.	0.000	9.71832
	Max.	0.000	9.71832
	Avg.	0.000	9.71832
1024	Min.	0.000	9.63980
	Max.	0.000	9.63980
	Avg.	0.000	9.63980
1280	Min.	0.000	9.69472
	Max.	0.000	9.69472
	Avg.	0.000	9.69472
1518	Min.	0.000	9.66187
	Max.	0.000	9.66187
	Avg.	0.000	9.66187









TEST SETUP

Clock Synchronization

Clock Mode	Internal
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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
	950.00	00:01	1	100	0	1
Back-to-Back		Burst Time (MM:SS)	Trials	Accuracy (Frames)	Acceptable Errors	Bursts
		00:01	1	1	0	1
Frame Loss	Max. Rate (Mbit/s)	Trial Duration (MM:SS)	Trials	Granularity (%)		
	950.00	00:01	1	10		
Latency	Max. Rate (Mbit/s)	Trial Duration (MM:SS)	Trials			
	189.99 - 949.99 (Frame Size Dependent)	00:01	1			

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:F8:22:D8
Source IP Address	10.112.0.1 (Stream 1)
Destination IP Address	0.0.0.0

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 1.60 SP1
Module ID	FTBx-8870
Slot ID	1
Software Product Version	1.60.1.101
	Power Blazer Series 1.60 SP1
Assembly Hardware Revision	B
Serial Number	1343184
Calibration Date	4/20/2020 8:28:00 PM

Pluggable Module

Module ID	SFP+
Vendor Name	WFS
Part Number	WFSP-1396-10-J
Serial Number	3172922861
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)	31.8 °C

Software Options

DS1-FDL	DS1/1.5M Facility Data Link	Disabled
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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
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	09/17 09:31:59 AM	Test Started		2020-09-17
2	09/17 09:53:32 AM	Test Stopped		 FAIL