



FTBx-8870 Report

FAIL

Report Header: EXFO Inc.
Report Title:
Report Date: 9/17/2020 10:52:11 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:00:07:36
Back-to-Back	Completed 00d:00:22:42
Frame Loss	Completed 00d:00:05:56
Latency	Completed 00d:00:01:36
Pass/Fail Verdict	FAIL
Start Time	9/17/2020 10:13:55 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	
	L->R	R->L	L->R	R->L	L->R	R->L
64	0.01	272.49	0.00	207.61	0.00	149.22
128	474.99	689.99	410.81	596.75	353.04	512.83
256	664.99	1000.00	616.81	927.53	573.44	862.31
512	949.99	1000.00	914.28	962.40	882.14	928.57
1024	949.99	993.74	931.80	974.71	915.42	957.57
1280	949.99	1000.00	935.38	984.61	922.23	970.76
1518	949.99	1000.00	937.64	986.99	926.52	975.29

Back-to-Back (Mbit/s)						
Layer						
	All		Ethernet		IP	
	L->R	R->L	L->R	R->L	L->R	R->L
64	0.42	0.90	0.32	0.69	0.23	0.49
128	0.69	3.88	0.60	3.35	0.51	2.88
256	1.22	1000.00	1.13	927.53	1.05	862.31
512	2.32	1000.00	2.23	962.40	2.15	928.57
1024	2.87	1000.00	2.81	980.84	2.76	963.60
1280	3.28	1000.00	3.23	984.61	3.19	970.76
1518	3.61	1000.00	3.57	986.99	3.52	975.29

	Frame Loss (%)		Round-Trip Latency (ms, Cut Through Mode)
	(9.5000 % Step)	(100.0000 % Step)	
	L->R	R->L	
64	65.332	57.671	10.04615
128	39.612	25.903	10.64028
256	0.123	0.001	10.34962
512	0.000	0.000	9.85433
1024	0.000	0.000	9.64563
1280	0.349	0.000	9.63055
1518	0.318	0.000	9.66244

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:F8:29:A5	10.112.0.100	7

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

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DTS Enabled	Enabled
Remote ID	MAX-860GA5

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

Enabled Subtests			
Throughput	Max. Rate (Mbit/s)		Accuracy (Mbit/s)
	L->R	R->L	
	950.00	1000.00	100
	Threshold (Mbit/s)		
	L->R	R->L	
	950.0	1000.0	
Back-to-Back	Burst Time (MM:SS)		Accuracy (Frames)
	00:01		1
	Threshold (%)		
	L->R	R->L	
	100.0	100.0	
Frame Loss	Max. Rate (Mbit/s)		Granularity (%)
	L->R	R->L	
	950.00	1000.00	10
	Threshold (%)		
	L->R	R->L	
	0.1	0.1	
Latency	L->R		R->L
	Max. Rate (Mbit/s)		Max. Rate (Mbit/s)
	950.00		1000.00
	Threshold (ms)		
	125.00000		

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	1294
Broadcast	0	38
Unicast	104628212	58514786
Non-Unicast	0	1332
Total	104628212	58516118

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	15530345	26.5
65 - 127	124	0.0
128 - 255	12482905	21.3
256 - 511	15266618	26.0
512 - 1023	6572135	11.2
1024 - 1518	8663991	14.8
> 1518	0	0.0
Total	58516118	

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

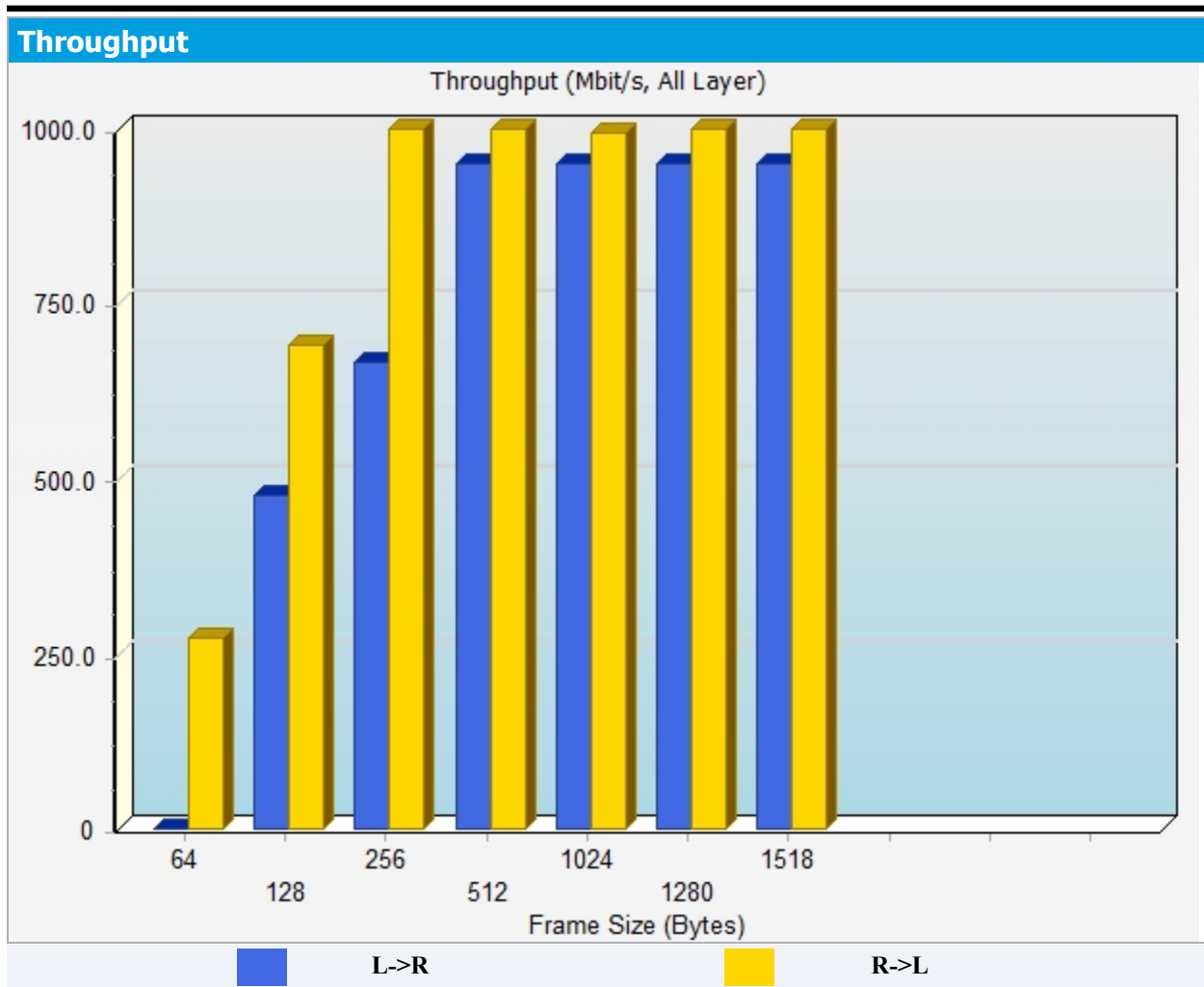
Pass/Fail Verdict	
Throughput	FAIL
Back-to-Back	FAIL
Frame Loss	FAIL
Latency	PASS

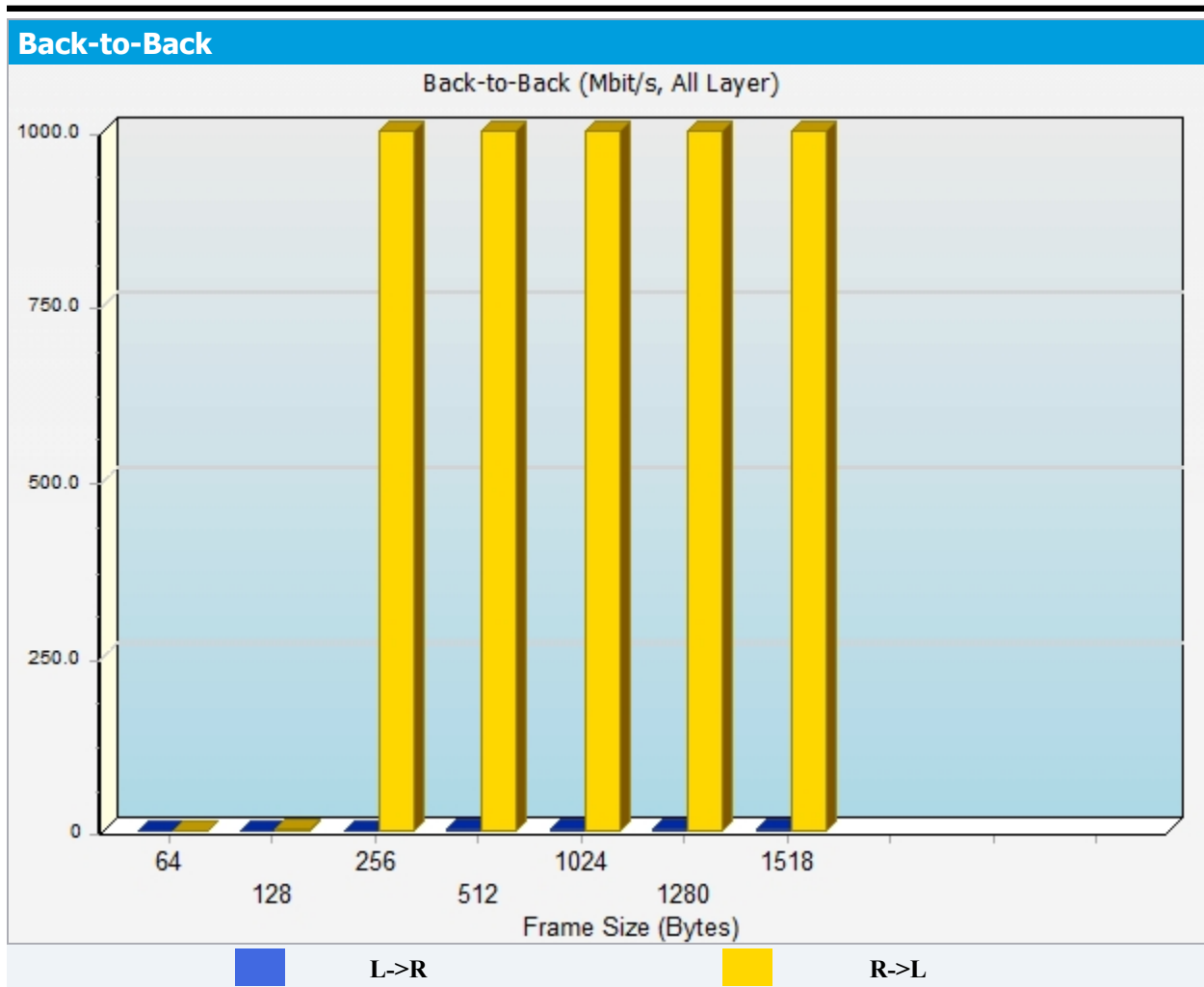
		Throughput							
		(Mbit/s)						(Frame/s)	
		Layer							
		All		Ethernet		IP			
		L->R	R->L	L->R	R->L	L->R	R->L	[L->R]	[R->L]
64	Min.	0.01	272.49	0.00	207.61	0.00	149.22	14.8809	405505.9351
	Max.	0.01	272.49	0.00	207.61	0.00	149.22	14.8809	405505.9351
	Avg.	0.01	272.49	0.00	207.61	0.00	149.22	14.8809	405505.9351
128	Min.	474.99	689.99	410.81	596.75	353.04	512.83	401182.4274	582770.2237
	Max.	474.99	689.99	410.81	596.75	353.04	512.83	401182.4274	582770.2237
	Avg.	474.99	689.99	410.81	596.75	353.04	512.83	401182.4274	582770.2237
256	Min.	664.99	1000.00	616.81	927.53	573.44	862.31	301177.5296	452898.5507
	Max.	664.99	1000.00	616.81	927.53	573.44	862.31	301177.5296	452898.5507
	Avg.	664.99	1000.00	616.81	927.53	573.44	862.31	301177.5296	452898.5507
512	Min.	949.99	1000.00	914.28	962.40	882.14	928.57	223214.2778	234962.4060
	Max.	949.99	1000.00	914.28	962.40	882.14	928.57	223214.2778	234962.4060
	Avg.	949.99	1000.00	914.28	962.40	882.14	928.57	223214.2778	234962.4060
1024	Min.	949.99	993.74	931.80	974.71	915.42	957.57	113745.2067	118983.4578
	Max.	949.99	993.74	931.80	974.71	915.42	957.57	113745.2067	118983.4578
	Avg.	949.99	993.74	931.80	974.71	915.42	957.57	113745.2067	118983.4578
1280	Min.	949.99	1000.00	935.38	984.61	922.23	970.76	91346.1506	96153.8461
	Max.	949.99	1000.00	935.38	984.61	922.23	970.76	91346.1506	96153.8461
	Avg.	949.99	1000.00	935.38	984.61	922.23	970.76	91346.1506	96153.8461
1518	Min.	949.99	1000.00	937.64	986.99	926.52	975.29	77210.6605	81274.3823

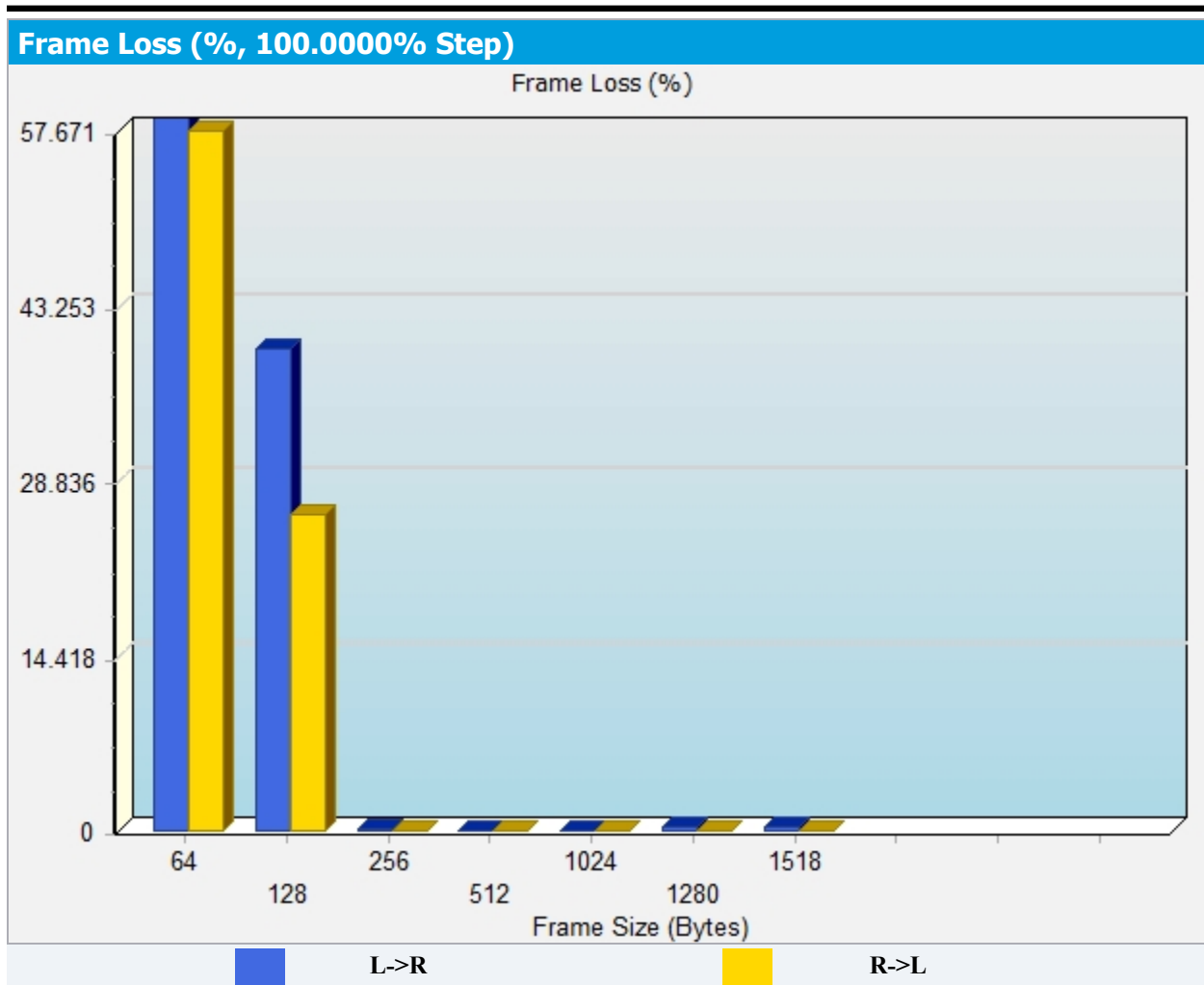
	Max.	949.99	1000.00	937.64	986.99	926.52	975.29	77210.660 5	81274.38 23
	Avg.	949.99	1000.00	937.64	986.99	926.52	975.29	77210.660 5	81274.38 23

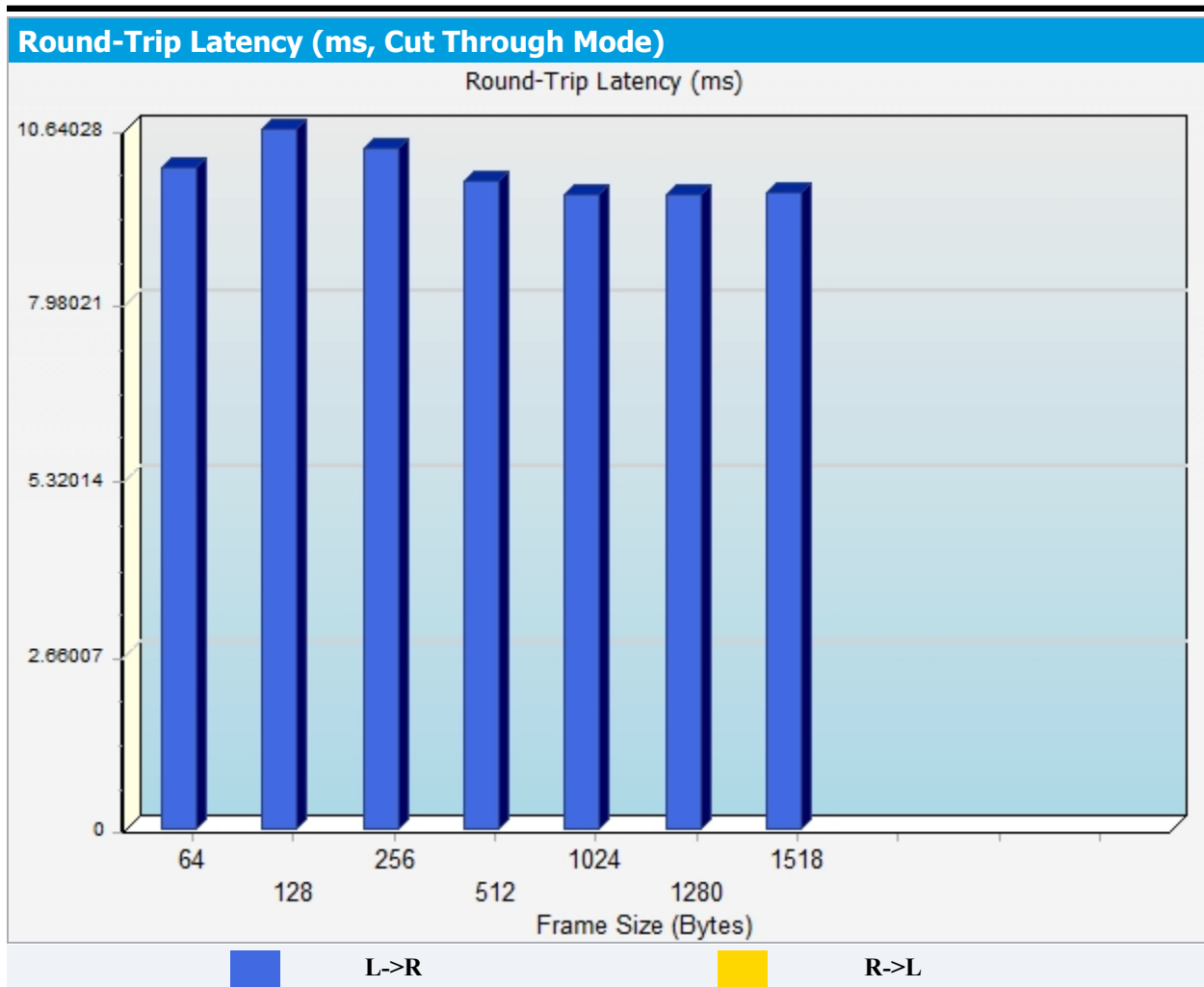
		Back-to-Back							
		(Mbit/s)						(f/burst)	
		Layer							
		All		Ethernet		IP			
		L->R	R->L	L->R	R->L	L->R	R->L	[L->R]	[R->L]
64	Min.	0.42	0.90	0.32	0.69	0.23	0.49	633	1349
	Max.	0.42	0.90	0.32	0.69	0.23	0.49	633	1349
	Avg.	0.42	0.90	0.32	0.69	0.23	0.49	633	1349
128	Min.	0.69	3.88	0.60	3.35	0.51	2.88	588	3279
	Max.	0.69	3.88	0.60	3.35	0.51	2.88	588	3279
	Avg.	0.69	3.88	0.60	3.35	0.51	2.88	588	3279
256	Min.	1.22	1000.00	1.13	927.53	1.05	862.31	553	452899
	Max.	1.22	1000.00	1.13	927.53	1.05	862.31	553	452899
	Avg.	1.22	1000.00	1.13	927.53	1.05	862.31	553	452899
512	Min.	2.32	1000.00	2.23	962.40	2.15	928.57	546	234963
	Max.	2.32	1000.00	2.23	962.40	2.15	928.57	546	234963
	Avg.	2.32	1000.00	2.23	962.40	2.15	928.57	546	234963
1024	Min.	2.87	1000.00	2.81	980.84	2.76	963.60	344	119732
	Max.	2.87	1000.00	2.81	980.84	2.76	963.60	344	119732
	Avg.	2.87	1000.00	2.81	980.84	2.76	963.60	344	119732
1280	Min.	3.28	1000.00	3.23	984.61	3.19	970.76	316	96154
	Max.	3.28	1000.00	3.23	984.61	3.19	970.76	316	96154
	Avg.	3.28	1000.00	3.23	984.61	3.19	970.76	316	96154
1518	Min.	3.61	1000.00	3.57	986.99	3.52	975.29	294	81275
	Max.	3.61	1000.00	3.57	986.99	3.52	975.29	294	81275
	Avg.	3.61	1000.00	3.57	986.99	3.52	975.29	294	81275
	Min.	--	--	--	--	--	--	--	--
	Max.	--	--	--	--	--	--	--	--
	Avg.	--	--	--	--	--	--	--	--

		Frame Loss (%, 9.5000% Step)		Round-Trip Latency (ms, Cut Through Mode)
		L->R	R->L	
64	Min.	65.332	57.671	10.04615
	Max.	65.332	57.671	10.04615
	Avg.	65.332	57.671	10.04615
128	Min.	39.612	25.903	10.64028
	Max.	39.612	25.903	10.64028
	Avg.	39.612	25.903	10.64028
256	Min.	0.123	0.001	10.34962
	Max.	0.123	0.001	10.34962
	Avg.	0.123	0.001	10.34962
512	Min.	0.000	0.000	9.85433
	Max.	0.000	0.000	9.85433
	Avg.	0.000	0.000	9.85433
1024	Min.	0.000	0.000	9.64563
	Max.	0.000	0.000	9.64563
	Avg.	0.000	0.000	9.64563
1280	Min.	0.349	0.000	9.63055
	Max.	0.349	0.000	9.63055
	Avg.	0.349	0.000	9.63055
1518	Min.	0.318	0.000	9.66244
	Max.	0.318	0.000	9.66244
	Avg.	0.318	0.000	9.66244
	Max.	--	--	--









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
	L->R 950.00	R->L 1000.00	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 (%)		
	L->R 950.00	R->L 1000.00	00:01	1	10		
Latency	Max. Rate (Mbit/s)		Trial Duration (MM:SS)	Trials	Latency Measurement Mode		
	L->R 0.50 - 949.99 (Frame Size Dependent)		00:01	1	Round-Trip		

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	10.112.0.100

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

Ping Results		
No.	Status	Reply Details
1	Timeout	
2	Timeout	
3	User aborted	

Ping Statistics	
Packets Transmitted	3
Packets Received	0
Percentage Lost (%)	100.0
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)	31.9 °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 10:13:55 AM	Test Started		2020-09-17
2	09/17 10:51:49 AM	Test Stopped		 FAIL