

FTBx-8870 Report

FAIL

Report Header: EXFO Inc.
Report Title:
Report Date: 9/2/2021 7:37:05 PM
Type: RFC 2544

Job Information

Job ID: RTASK1913163
Circuit ID: Zayo: ETYX/310133//ZYO
Contractor Name:
Customer Name: evergreen-van-k12
Operator Name: kithc
Comment:

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SUMMARY

Results Summary

Test Status	
Throughput	Completed 00d:00:09:09
Back-to-Back	Completed 00d:00:23:14
Frame Loss	Completed 00d:00:04:57
Latency	Completed 00d:00:01:37
Pass/Fail Verdict	FAIL
Start Time	9/2/2021 06:38:37 PM
Test Recovery	0

RFC 2544

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

Throughput (Mbit/s)						
	Layer					
	All		Ethernet		IP	
	L->R	R->L	L->R	R->L	L->R	R->L
64	8437.49	7124.99	6428.57	5428.57	4620.53	3901.78
128	9312.49	8687.49	8054.05	7513.51	6921.45	6456.92
256	9887.49	9249.99	9171.01	8579.70	8526.17	7976.44
512	9937.49	9562.49	9563.90	9203.00	9227.67	8879.46
1024	10000.00	9749.99	9808.42	9563.21	9636.01	9395.11
1280	10000.00	9812.49	9846.15	9661.53	9707.69	9525.67
1518	10000.00	9812.49	9869.96	9684.89	9752.92	9570.05

Throughput (Frame/s)		
	L->R	R->L
64	12555800.9665	10602675.8022
128	7865284.7347	7337415.2838
256	4478033.1581	4189310.3980
512	2334938.5068	2246827.1192
1024	1197318.0076	1167384.5853
1280	961538.4615	943509.6022
1518	812743.8231	797504.8653

Back-to-Back (Mbit/s)						
Layer						
	All		Ethernet		IP	
	L->R	R->L	L->R	R->L	L->R	R->L
64	3767.22	3.76	2870.26	2.86	2063.00	2.05
128	5908.16	9.91	5109.76	8.57	4391.20	7.36
256	8354.49	29.12	7749.09	27.01	7204.23	25.11
512	10000.00	52.13	9624.06	50.17	9285.71	48.40
1024	10000.00	98.10	9808.42	96.22	9636.01	94.53
1280	10000.00	121.21	9846.15	119.34	9707.69	117.66
1518	10000.00	142.60	9869.96	140.74	9752.92	139.07

Back-to-Back (f/burst)		
	L->R	R->L
64	5605988	5596
128	4990002	8370
256	3783737	13189
512	2349625	12249
1024	1197319	11746
1280	961539	11655
1518	812744	11590

	Frame Loss (%)		Round-Trip Latency (ms, Cut Through Mode)
	(100.0000 % Step)	(100.0000 % Step)	
	L->R	R->L	
64	15.159	29.987	213.67673
128	6.252	12.928	60.34739
256	0.000	7.362	51.27671
512	0.006	3.951	29.70574
1024	0.000	2.044	20.53256
1280	0.000	1.645	16.02800
1518	0.000	1.391	113.28857

RX Power Level		
	Min	Max
Power Range (dBm)	-15.0	0.5
RX Power Level (dBm)	-3.0	-3.0

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	-0.3	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:F8:29:96	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-860G96

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	
	10000.00	10000.00	100
	Threshold (Mbit/s)		
	L->R	R->L	
	10000.0	10000.0	
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	
	10000.00	10000.00	10
	Threshold (%)		
	L->R	R->L	
	0.1	0.1	
Latency	L->R		R->L
	Max. Rate (Mbit/s)		Max. Rate (Mbit/s)
	10000.00		10000.00
	Threshold (ms)		
	125.00000		

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	85
Broadcast	0	0
Unicast	910259564	426509523
Non-Unicast	0	85
Total	910259564	426509608

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	182812846	42.8
65 - 127	121	0.0
128 - 255	107507382	25.2
256 - 511	65898304	15.4
512 - 1023	30685729	7.1
1024 - 1518	39605226	9.2
> 1518	0	0.0
Total	426509608	

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	FAIL

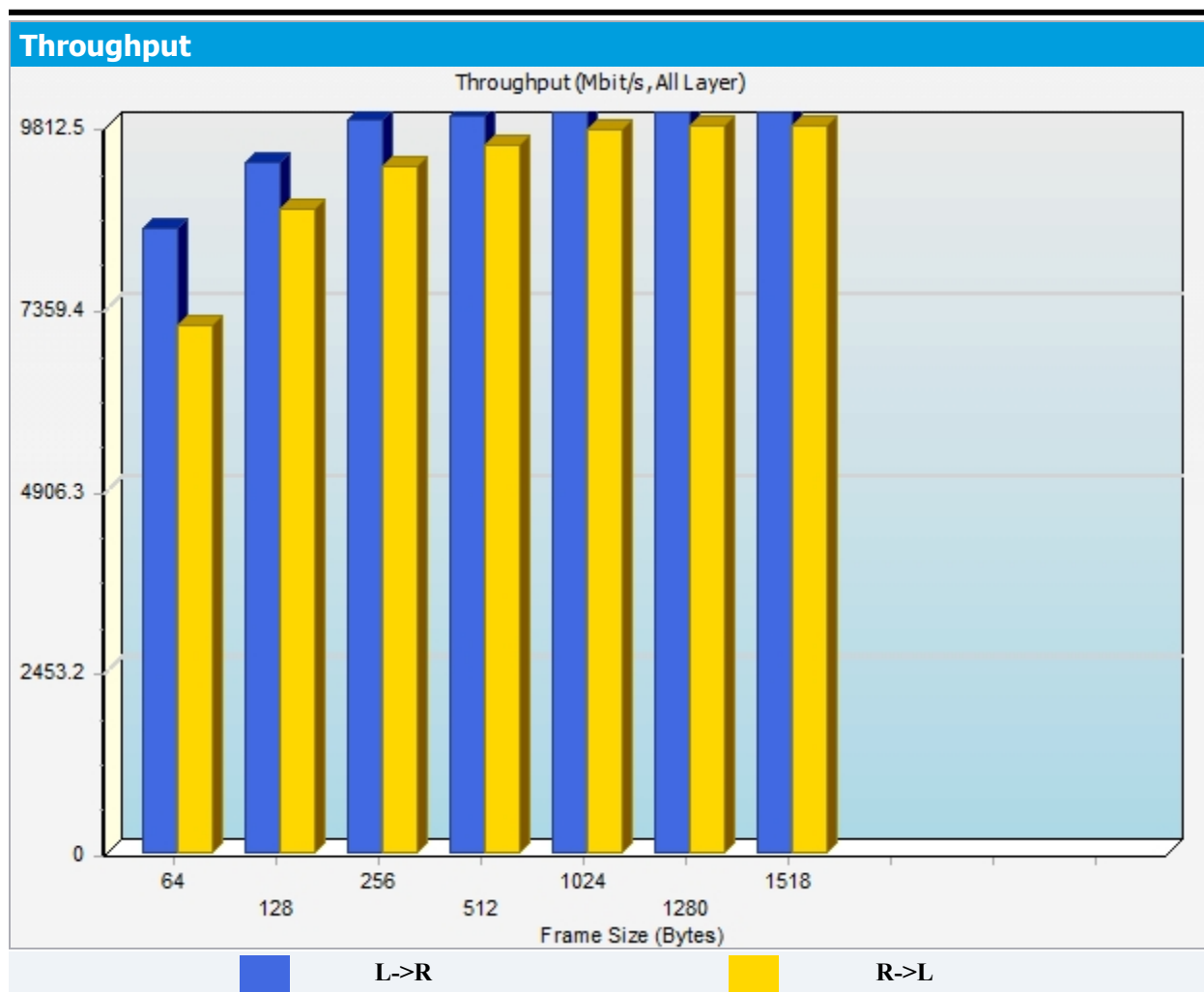
Throughput (Mbit/s)							
Layer							
		All		Ethernet		IP	
		L->R	R->L	L->R	R->L	L->R	R->L
64	Min.	8437.49	7124.99	6428.57	5428.57	4620.53	3901.78
	Max.	8437.49	7124.99	6428.57	5428.57	4620.53	3901.78
	Avg.	8437.49	7124.99	6428.57	5428.57	4620.53	3901.78
128	Min.	9312.49	8687.49	8054.05	7513.51	6921.45	6456.92
	Max.	9312.49	8687.49	8054.05	7513.51	6921.45	6456.92
	Avg.	9312.49	8687.49	8054.05	7513.51	6921.45	6456.92
256	Min.	9887.49	9249.99	9171.01	8579.70	8526.17	7976.44
	Max.	9887.49	9249.99	9171.01	8579.70	8526.17	7976.44
	Avg.	9887.49	9249.99	9171.01	8579.70	8526.17	7976.44
512	Min.	9937.49	9562.49	9563.90	9203.00	9227.67	8879.46
	Max.	9937.49	9562.49	9563.90	9203.00	9227.67	8879.46
	Avg.	9937.49	9562.49	9563.90	9203.00	9227.67	8879.46
1024	Min.	10000.00	9749.99	9808.42	9563.21	9636.01	9395.11
	Max.	10000.00	9749.99	9808.42	9563.21	9636.01	9395.11
	Avg.	10000.00	9749.99	9808.42	9563.21	9636.01	9395.11
1280	Min.	10000.00	9812.49	9846.15	9661.53	9707.69	9525.67
	Max.	10000.00	9812.49	9846.15	9661.53	9707.69	9525.67
	Avg.	10000.00	9812.49	9846.15	9661.53	9707.69	9525.67
1518	Min.	10000.00	9812.49	9869.96	9684.89	9752.92	9570.05
	Max.	10000.00	9812.49	9869.96	9684.89	9752.92	9570.05
	Avg.	10000.00	9812.49	9869.96	9684.89	9752.92	9570.05

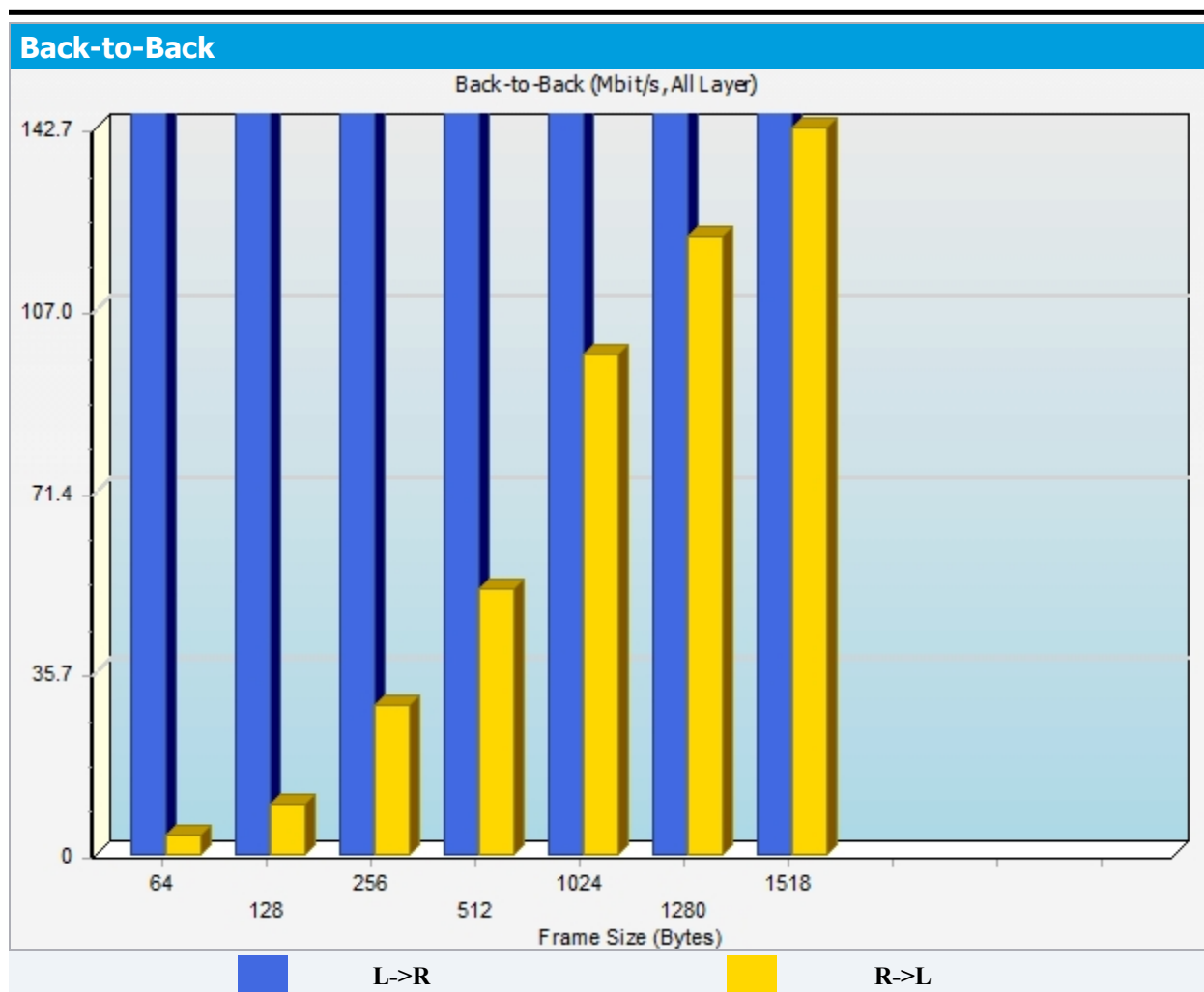
Throughput (Frame/s)			
		L->R	R->L
64	Min.	12555800.9665	10602675.8022
	Max.	12555800.9665	10602675.8022
	Avg.	12555800.9665	10602675.8022
128	Min.	7865284.7347	7337415.2838
	Max.	7865284.7347	7337415.2838
	Avg.	7865284.7347	7337415.2838
256	Min.	4478033.1581	4189310.3980
	Max.	4478033.1581	4189310.3980
	Avg.	4478033.1581	4189310.3980
512	Min.	2334938.5068	2246827.1192
	Max.	2334938.5068	2246827.1192
	Avg.	2334938.5068	2246827.1192
1024	Min.	1197318.0076	1167384.5853
	Max.	1197318.0076	1167384.5853
	Avg.	1197318.0076	1167384.5853
1280	Min.	961538.4615	943509.6022
	Max.	961538.4615	943509.6022
	Avg.	961538.4615	943509.6022
1518	Min.	812743.8231	797504.8653
	Max.	812743.8231	797504.8653
	Avg.	812743.8231	797504.8653

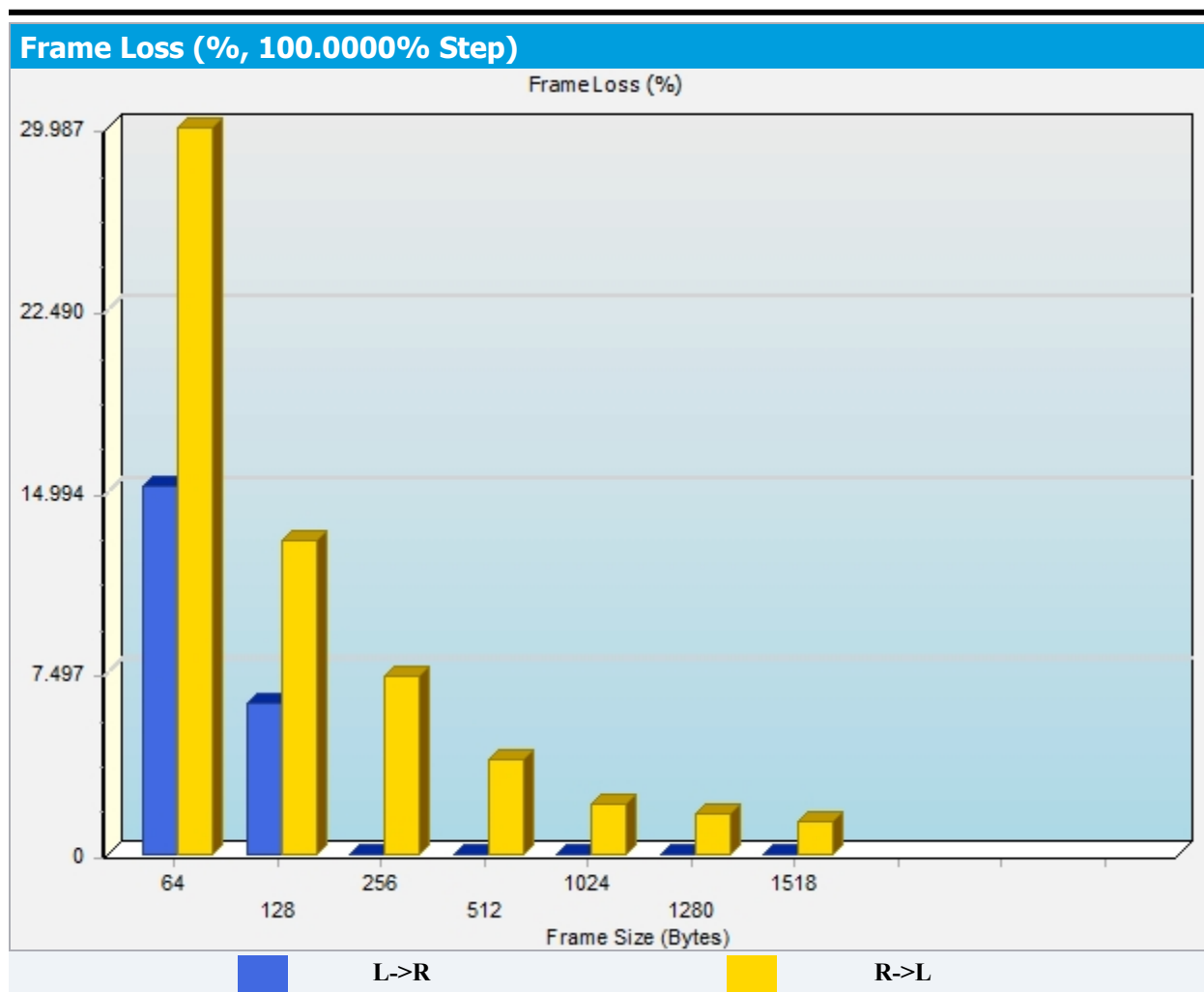
Back-to-Back (Mbit/s)							
Layer							
		All		Ethernet		IP	
		L->R	R->L	L->R	R->L	L->R	R->L
64	Min.	3767.22	3.76	2870.26	2.86	2063.00	2.05
	Max.	3767.22	3.76	2870.26	2.86	2063.00	2.05
	Avg.	3767.22	3.76	2870.26	2.86	2063.00	2.05
128	Min.	5908.16	9.91	5109.76	8.57	4391.20	7.36
	Max.	5908.16	9.91	5109.76	8.57	4391.20	7.36
	Avg.	5908.16	9.91	5109.76	8.57	4391.20	7.36
256	Min.	8354.49	29.12	7749.09	27.01	7204.23	25.11
	Max.	8354.49	29.12	7749.09	27.01	7204.23	25.11
	Avg.	8354.49	29.12	7749.09	27.01	7204.23	25.11
512	Min.	10000.00	52.13	9624.06	50.17	9285.71	48.40
	Max.	10000.00	52.13	9624.06	50.17	9285.71	48.40
	Avg.	10000.00	52.13	9624.06	50.17	9285.71	48.40
1024	Min.	10000.00	98.10	9808.42	96.22	9636.01	94.53
	Max.	10000.00	98.10	9808.42	96.22	9636.01	94.53
	Avg.	10000.00	98.10	9808.42	96.22	9636.01	94.53
1280	Min.	10000.00	121.21	9846.15	119.34	9707.69	117.66
	Max.	10000.00	121.21	9846.15	119.34	9707.69	117.66
	Avg.	10000.00	121.21	9846.15	119.34	9707.69	117.66
1518	Min.	10000.00	142.60	9869.96	140.74	9752.92	139.07
	Max.	10000.00	142.60	9869.96	140.74	9752.92	139.07
	Avg.	10000.00	142.60	9869.96	140.74	9752.92	139.07
	Min.	--	--	--	--	--	--
	Max.	--	--	--	--	--	--
	Avg.	--	--	--	--	--	--

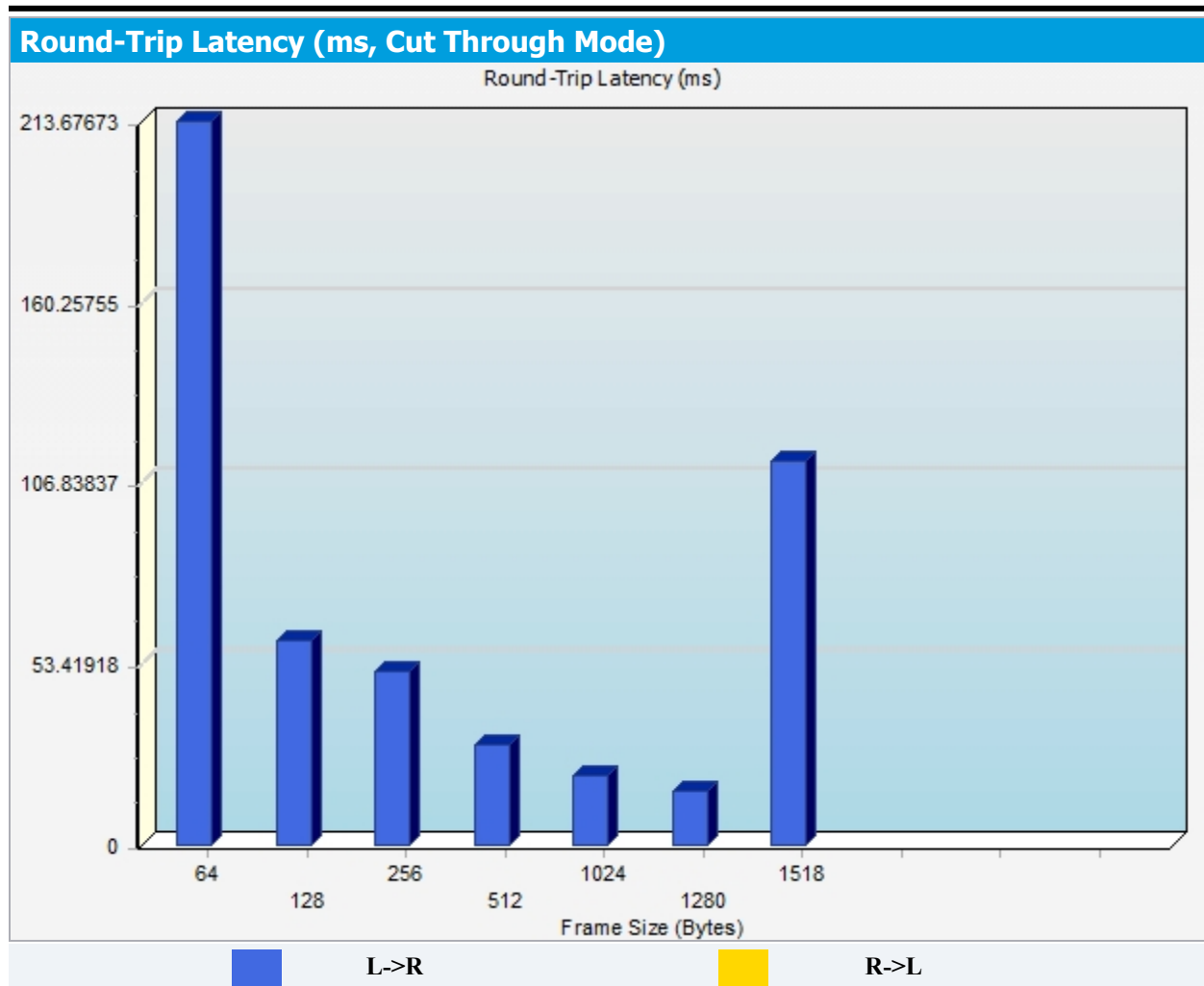
Back-to-Back (f/burst)			
		L->R	R->L
64	Min.	5605988	5596
	Max.	5605988	5596
	Avg.	5605988	5596
128	Min.	4990002	8370
	Max.	4990002	8370
	Avg.	4990002	8370
256	Min.	3783737	13189
	Max.	3783737	13189
	Avg.	3783737	13189
512	Min.	2349625	12249
	Max.	2349625	12249
	Avg.	2349625	12249
1024	Min.	1197319	11746
	Max.	1197319	11746
	Avg.	1197319	11746
1280	Min.	961539	11655
	Max.	961539	11655
	Avg.	961539	11655
1518	Min.	812744	11590
	Max.	812744	11590
	Avg.	812744	11590
	Min.	--	--
	Max.	--	--
	Avg.	--	--

		Frame Loss (%, 100.0000% Step)		Round-Trip Latency (ms, Cut Through Mode)
		L->R	R->L	
64	Min.	15.159	29.987	213.67673
	Max.	15.159	29.987	213.67673
	Avg.	15.159	29.987	213.67673
128	Min.	6.252	12.928	60.34739
	Max.	6.252	12.928	60.34739
	Avg.	6.252	12.928	60.34739
256	Min.	0.000	7.362	51.27671
	Max.	0.000	7.362	51.27671
	Avg.	0.000	7.362	51.27671
512	Min.	0.006	3.951	29.70574
	Max.	0.006	3.951	29.70574
	Avg.	0.006	3.951	29.70574
1024	Min.	0.000	2.044	20.53256
	Max.	0.000	2.044	20.53256
	Avg.	0.000	2.044	20.53256
1280	Min.	0.000	1.645	16.02800
	Max.	0.000	1.645	16.02800
	Avg.	0.000	1.645	16.02800
1518	Min.	0.000	1.391	113.28857
	Max.	0.000	1.391	113.28857
	Avg.	0.000	1.391	113.28857
	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 10000.00	R->L 10000.00	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 10000.00	R->L 10000.00	00:01	1	10		
Latency	Max. Rate (Mbit/s)		Trial Duration (MM:SS)	Trials	Latency Measurement Mode		
	L->R 8437.49 - 10000.00 (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	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 1.75
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	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)	32.9 °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
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	09/02 06:38:37 PM	Test Started		2021-09-02
2	09/02 07:17:35 PM	Test Stopped		 FAIL