



FTBx-8870 Report

FAIL

Report Header: EXFO Inc.
Report Title:
Report Date: 9/14/2021 12:19:27 PM
Type: RFC 2544

Job Information

Job ID: RTASK1859549
Circuit ID: Zayo: ETYX/294413/ZYO
Contractor Name:
Customer Name: highline-k12
Operator Name: kithc
Comment:

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SUMMARY

Results Summary

Test Status	
Throughput	Completed 00d:00:17:35
Back-to-Back	Completed 00d:00:23:04
Frame Loss	Completed 00d:00:07:47
Latency	Completed 00d:00:01:37
Pass/Fail Verdict	FAIL
Start Time	9/14/2021 11:27:19 AM
Test Recovery	0

RFC 2544

Pass/Fail Verdict	
Throughput	PASS
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	1000.00	7921.87	761.90	6035.71	547.61	4338.16
128	1000.00	8703.12	864.86	7527.02	743.24	6468.53
256	1000.00	9257.80	927.53	8586.95	862.31	7983.18
512	1000.00	9601.56	962.40	9240.60	928.57	8915.73
1024	1000.00	9789.05	980.84	9601.52	963.60	9432.75
1280	1000.00	9828.12	984.61	9676.91	970.76	9540.83
1518	1000.00	9851.56	986.99	9723.45	975.29	9608.15

Throughput (Frame/s)		
	L->R	R->L
64	1488095.2380	11788502.0856
128	844594.5945	7350609.2927
256	452898.5507	4192848.2167
512	234962.4060	2256006.0570
1024	119731.8007	1172061.5488
1280	96153.8461	945011.6448
1518	81274.3823	800679.5226

Back-to-Back (Mbit/s)						
Layer						
	All		Ethernet		IP	
	L->R	R->L	L->R	R->L	L->R	R->L
64	12.03	3.73	9.16	2.84	6.58	2.04
128	50.06	9.90	43.30	8.56	37.21	7.36
256	313.57	29.17	290.85	27.05	270.40	25.15
512	4061.59	52.13	3908.90	50.17	3771.47	48.40
1024	10000.00	98.09	9808.42	96.21	9636.01	94.52
1280	10000.00	121.31	9846.15	119.44	9707.69	117.76
1518	10000.00	142.35	9869.96	140.50	9752.92	138.83

Back-to-Back (f/burst)		
	L->R	R->L
64	17906	5562
128	42288	8364
256	142019	13212
512	954322	12249
1024	1197319	11745
1280	961539	11665
1518	812744	11570

	Frame Loss (%)		Round-Trip Latency (ms, Cut Through Mode)
	(10.0000 % Step)	(100.0000 % Step)	
	L->R	R->L	
64	0.000	20.754	0.42240
128	0.000	12.939	0.42770
256	0.000	7.379	0.42763
512	0.000	3.968	0.43828
1024	0.000	2.060	0.42840
1280	0.000	1.661	0.44013
1518	0.000	1.407	0.45559

RX Power Level		
	Min	Max
Power Range (dBm)	-19.0	-1.0
RX Power Level (dBm)	-2.2	-2.1

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	0.0	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:DD	10.112.0.1 / 255.255.255.0	49184
Destination	00:03:01:F8:29:85	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-860G84

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	
	1000.00	10000.00	10
	Threshold (Mbit/s)		
	L->R	R->L	
	1000.0	100.0	
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	
	1000.00	10000.00	5
	Threshold (%)		
	L->R	R->L	
	0.01	0.1	
Latency	L->R		R->L
	Max. Rate (Mbit/s)		Max. Rate (Mbit/s)
	1000.00		10000.00
	Threshold (ms)		
	28.00000		

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	108
Broadcast	0	0
Unicast	399984578	2441697440
Non-Unicast	0	108
Total	399984578	2441697548

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	1149275753	47.0
65 - 127	65	0.0
128 - 255	602287028	24.6
256 - 511	321561495	13.1
512 - 1023	161296746	6.6
1024 - 1518	207276461	8.4
> 1518	0	0.0
Total	2441697548	

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	PASS
Back-to-Back	FAIL
Frame Loss	FAIL
Latency	PASS

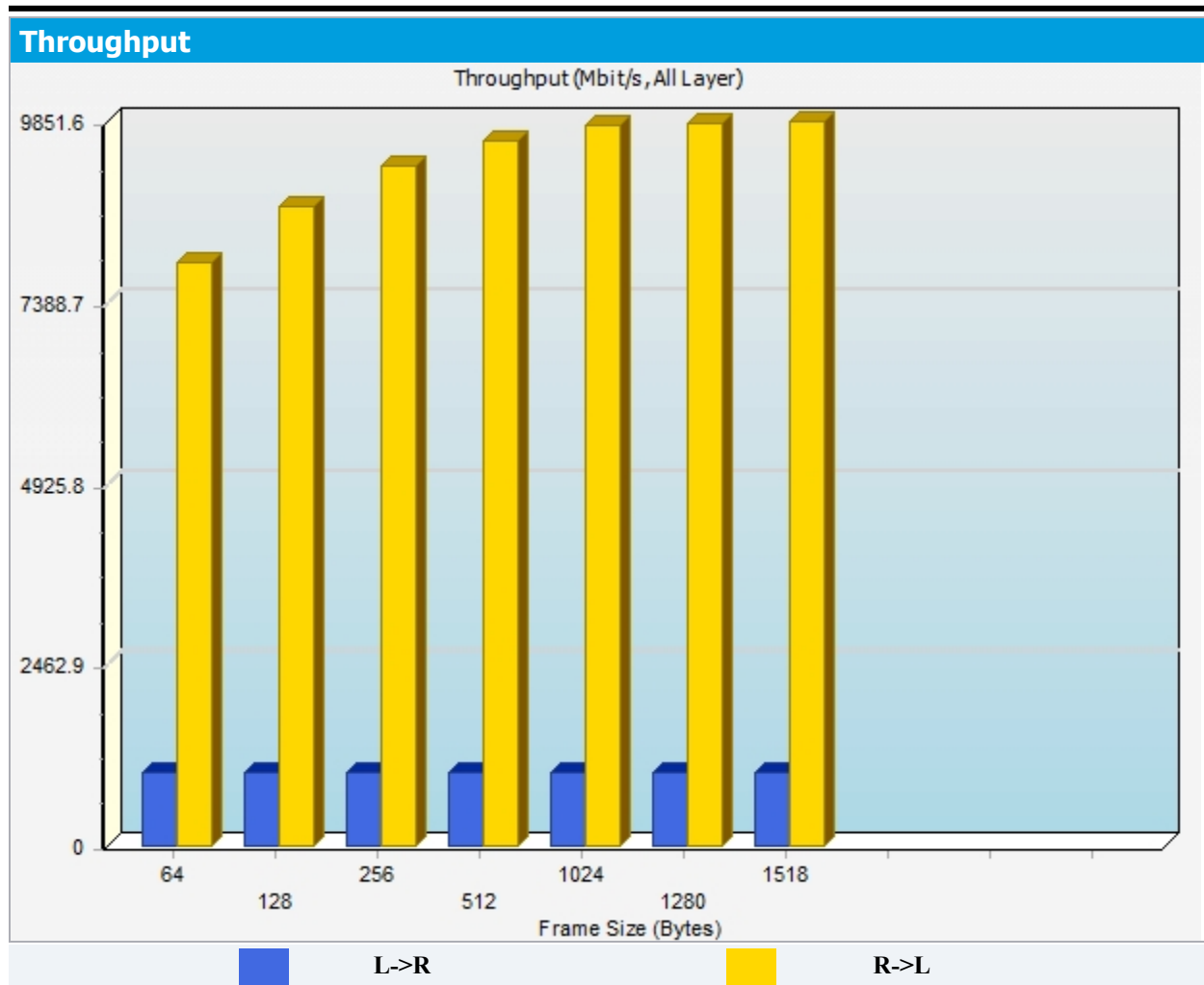
Throughput (Mbit/s)							
Layer							
		All		Ethernet		IP	
		L->R	R->L	L->R	R->L	L->R	R->L
64	Min.	1000.00	7921.87	761.90	6035.71	547.61	4338.16
	Max.	1000.00	7921.87	761.90	6035.71	547.61	4338.16
	Avg.	1000.00	7921.87	761.90	6035.71	547.61	4338.16
128	Min.	1000.00	8703.12	864.86	7527.02	743.24	6468.53
	Max.	1000.00	8703.12	864.86	7527.02	743.24	6468.53
	Avg.	1000.00	8703.12	864.86	7527.02	743.24	6468.53
256	Min.	1000.00	9257.80	927.53	8586.95	862.31	7983.18
	Max.	1000.00	9257.80	927.53	8586.95	862.31	7983.18
	Avg.	1000.00	9257.80	927.53	8586.95	862.31	7983.18
512	Min.	1000.00	9601.56	962.40	9240.60	928.57	8915.73
	Max.	1000.00	9601.56	962.40	9240.60	928.57	8915.73
	Avg.	1000.00	9601.56	962.40	9240.60	928.57	8915.73
1024	Min.	1000.00	9789.05	980.84	9601.52	963.60	9432.75
	Max.	1000.00	9789.05	980.84	9601.52	963.60	9432.75
	Avg.	1000.00	9789.05	980.84	9601.52	963.60	9432.75
1280	Min.	1000.00	9828.12	984.61	9676.91	970.76	9540.83
	Max.	1000.00	9828.12	984.61	9676.91	970.76	9540.83
	Avg.	1000.00	9828.12	984.61	9676.91	970.76	9540.83
1518	Min.	1000.00	9851.56	986.99	9723.45	975.29	9608.15
	Max.	1000.00	9851.56	986.99	9723.45	975.29	9608.15
	Avg.	1000.00	9851.56	986.99	9723.45	975.29	9608.15

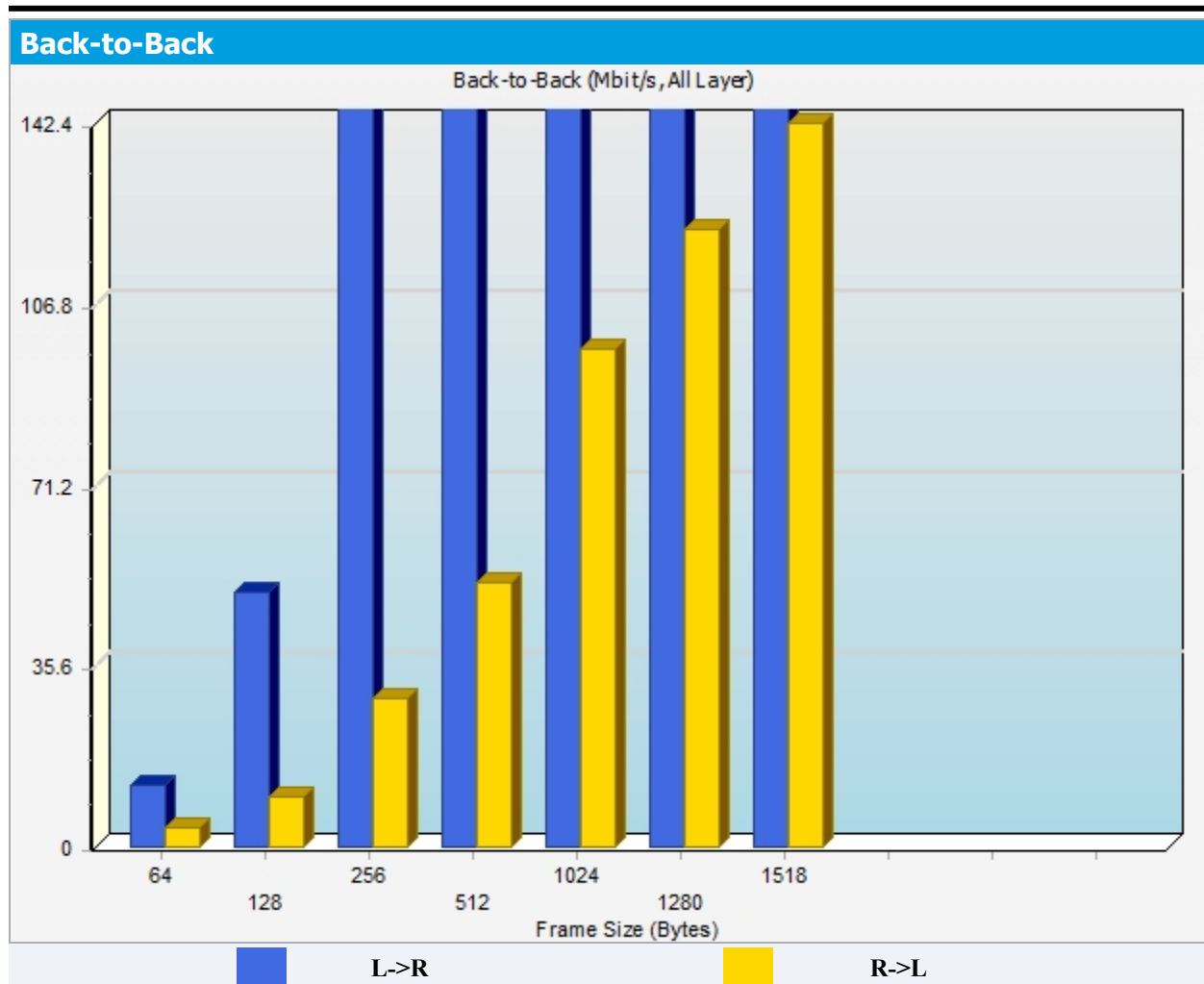
Throughput (Frame/s)			
		L->R	R->L
64	Min.	1488095.2380	11788502.0856
	Max.	1488095.2380	11788502.0856
	Avg.	1488095.2380	11788502.0856
128	Min.	844594.5945	7350609.2927
	Max.	844594.5945	7350609.2927
	Avg.	844594.5945	7350609.2927
256	Min.	452898.5507	4192848.2167
	Max.	452898.5507	4192848.2167
	Avg.	452898.5507	4192848.2167
512	Min.	234962.4060	2256006.0570
	Max.	234962.4060	2256006.0570
	Avg.	234962.4060	2256006.0570
1024	Min.	119731.8007	1172061.5488
	Max.	119731.8007	1172061.5488
	Avg.	119731.8007	1172061.5488
1280	Min.	96153.8461	945011.6448
	Max.	96153.8461	945011.6448
	Avg.	96153.8461	945011.6448
1518	Min.	81274.3823	800679.5226
	Max.	81274.3823	800679.5226
	Avg.	81274.3823	800679.5226

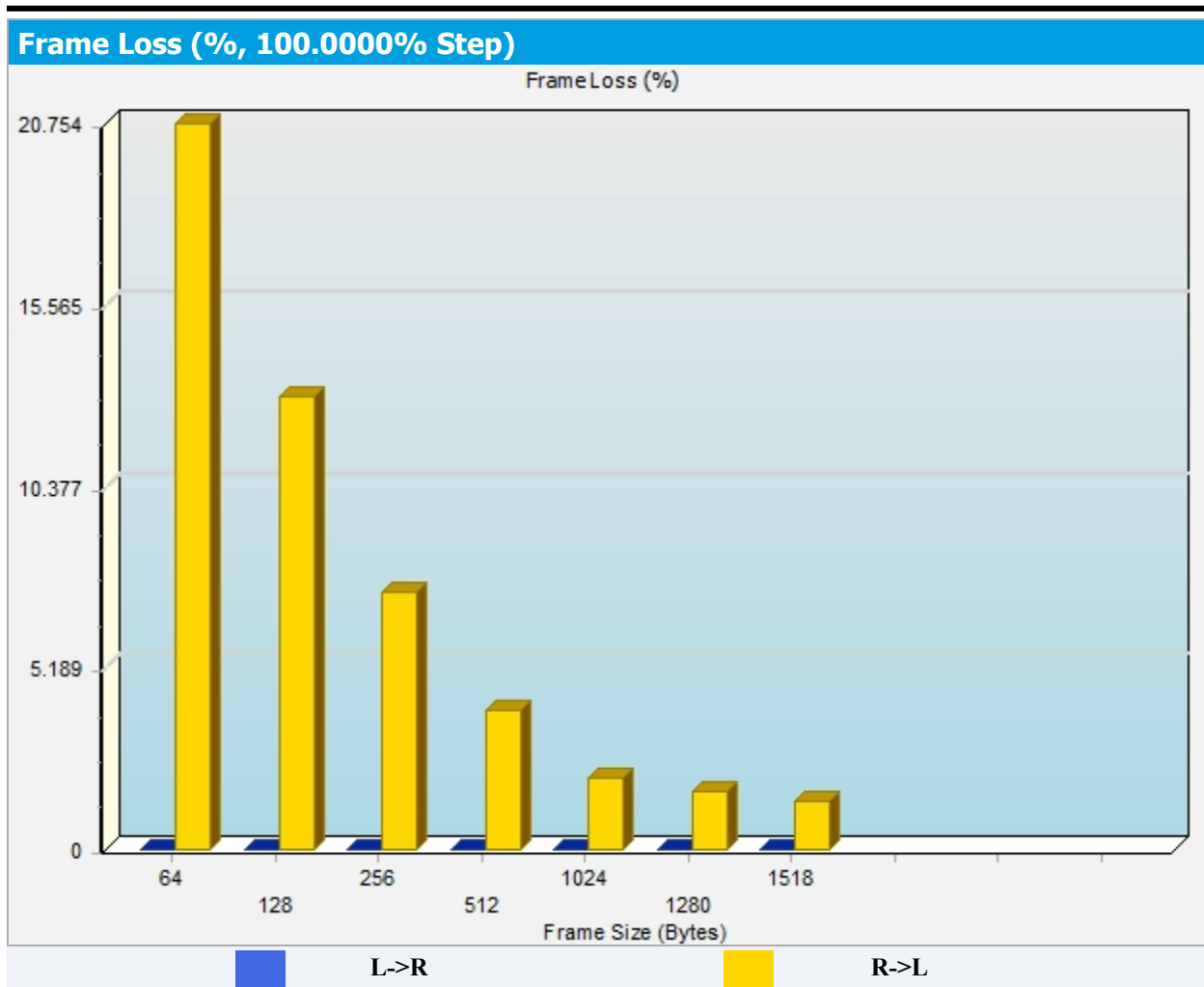
Back-to-Back (Mbit/s)							
Layer							
		All		Ethernet		IP	
		L->R	R->L	L->R	R->L	L->R	R->L
64	Min.	12.03	3.73	9.16	2.84	6.58	2.04
	Max.	12.03	3.73	9.16	2.84	6.58	2.04
	Avg.	12.03	3.73	9.16	2.84	6.58	2.04
128	Min.	50.06	9.90	43.30	8.56	37.21	7.36
	Max.	50.06	9.90	43.30	8.56	37.21	7.36
	Avg.	50.06	9.90	43.30	8.56	37.21	7.36
256	Min.	313.57	29.17	290.85	27.05	270.40	25.15
	Max.	313.57	29.17	290.85	27.05	270.40	25.15
	Avg.	313.57	29.17	290.85	27.05	270.40	25.15
512	Min.	4061.59	52.13	3908.90	50.17	3771.47	48.40
	Max.	4061.59	52.13	3908.90	50.17	3771.47	48.40
	Avg.	4061.59	52.13	3908.90	50.17	3771.47	48.40
1024	Min.	10000.00	98.09	9808.42	96.21	9636.01	94.52
	Max.	10000.00	98.09	9808.42	96.21	9636.01	94.52
	Avg.	10000.00	98.09	9808.42	96.21	9636.01	94.52
1280	Min.	10000.00	121.31	9846.15	119.44	9707.69	117.76
	Max.	10000.00	121.31	9846.15	119.44	9707.69	117.76
	Avg.	10000.00	121.31	9846.15	119.44	9707.69	117.76
1518	Min.	10000.00	142.35	9869.96	140.50	9752.92	138.83
	Max.	10000.00	142.35	9869.96	140.50	9752.92	138.83
	Avg.	10000.00	142.35	9869.96	140.50	9752.92	138.83
	Min.	--	--	--	--	--	--
	Max.	--	--	--	--	--	--
	Avg.	--	--	--	--	--	--

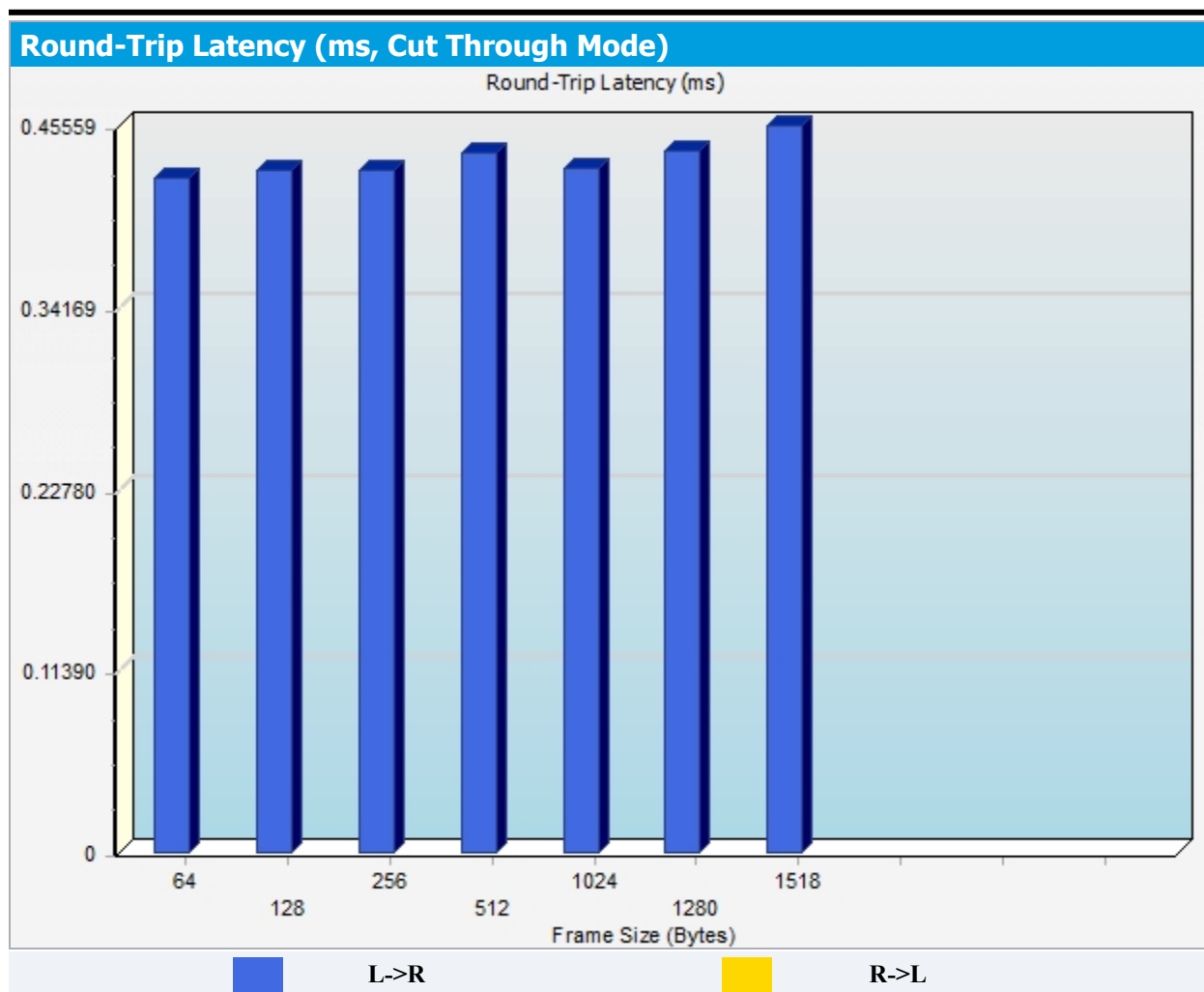
Back-to-Back (f/burst)			
		L->R	R->L
64	Min.	17906	5562
	Max.	17906	5562
	Avg.	17906	5562
128	Min.	42288	8364
	Max.	42288	8364
	Avg.	42288	8364
256	Min.	142019	13212
	Max.	142019	13212
	Avg.	142019	13212
512	Min.	954322	12249
	Max.	954322	12249
	Avg.	954322	12249
1024	Min.	1197319	11745
	Max.	1197319	11745
	Avg.	1197319	11745
1280	Min.	961539	11665
	Max.	961539	11665
	Avg.	961539	11665
1518	Min.	812744	11570
	Max.	812744	11570
	Avg.	812744	11570
	Min.	--	--
	Max.	--	--
	Avg.	--	--

		Frame Loss (% , 10.0000% Step)		Round-Trip Latency (ms, Cut Through Mode)
		L->R	R->L	
64	Min.	0.000	20.754	0.42240
	Max.	0.000	20.754	0.42240
	Avg.	0.000	20.754	0.42240
128	Min.	0.000	12.939	0.42770
	Max.	0.000	12.939	0.42770
	Avg.	0.000	12.939	0.42770
256	Min.	0.000	7.379	0.42763
	Max.	0.000	7.379	0.42763
	Avg.	0.000	7.379	0.42763
512	Min.	0.000	3.968	0.43828
	Max.	0.000	3.968	0.43828
	Avg.	0.000	3.968	0.43828
1024	Min.	0.000	2.060	0.42840
	Max.	0.000	2.060	0.42840
	Avg.	0.000	2.060	0.42840
1280	Min.	0.000	1.661	0.44013
	Max.	0.000	1.661	0.44013
	Avg.	0.000	1.661	0.44013
1518	Min.	0.000	1.407	0.45559
	Max.	0.000	1.407	0.45559
	Avg.	0.000	1.407	0.45559
	Max.	--	--	--









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
	L->R 1000.00	R->L 10000.00	00:05	1	10	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 1000.00	R->L 10000.00	00:05	1	5		
Latency	Max. Rate (Mbit/s)		Trial Duration (MM:SS)	Trials	Latency Measurement Mode		
	L->R 1000.00		00:01	1	Round-Trip		

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	0.0.0.0

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	Successful	IP=10.112.0.100, Bytes=32, Time=0 ms, TTL=127

Ping Statistics	
Packets Transmitted	1
Packets Received	1
Percentage Lost (%)	0.0
Minimum Round Trip Time (ms)	0
Maximum Round Trip Time (ms)	0
Average Round Trip Time (ms)	0

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)	26.5 °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	09/14 11:27:19 AM	Test Started		2021-09-14
2	09/14 12:17:23 PM	Test Stopped		 FAIL