



FTBx-8870 Report

FAIL

Report Header: EXFO Inc.
Report Title:
Report Date: 9/2/2021 4:08:27 PM
Type: RFC 2544

Job Information

Job ID: RTASK1922365
Circuit ID: Wave: 11/EEVC/041851/
Contractor Name:
Customer Name: olympia-k12
Operator Name: kithc
Comment:

Table of contents

SUMMARY	1
TEST RESULTS	7
TEST SETUP	16
FUNCTIONS	17
SYSTEM INFORMATION	17
LOGGER	20

SUMMARY

Results Summary

Test Status	
Throughput	Completed 00d:00:26:26
Back-to-Back	Completed 00d:00:26:36
Frame Loss	Completed 00d:00:25:38
Latency	Completed 00d:00:01:36
Pass/Fail Verdict	FAIL
Start Time	9/2/2021 02:28:32 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	7482.49	3969.37	5700.95	3024.28	4097.55	2173.70
128	8374.99	4757.81	7243.24	4114.86	6224.65	3536.21
256	8753.12	4664.68	8118.83	4326.66	7547.98	4022.44
512	9213.74	4989.99	8867.36	4802.40	8555.62	4633.57
1024	9398.43	5007.81	9218.38	4911.87	9056.34	4825.53
1280	9511.24	4914.68	9364.92	4839.07	9233.22	4771.02
1518	9489.99	4975.62	9366.59	4910.92	9255.52	4852.68

Throughput (Frame/s)		
	L->R	R->L
64	11134670.2323	5906807.4764
128	7073477.1596	4018421.9532
256	3964276.7468	2112630.1361
512	2164884.1522	1172462.2439
1024	1125291.6822	599594.3548
1280	914542.9935	472566.0605
1518	771293.7429	404390.7910

Back-to-Back (Mbit/s)						
Layer						
	All		Ethernet		IP	
	L->R	R->L	L->R	R->L	L->R	R->L
64	360.94	24.64	275.00	18.77	197.66	13.49
128	919.90	74.90	795.59	64.77	683.71	55.67
256	1375.35	128.72	1275.69	119.39	1185.99	111.00
512	2532.25	237.50	2437.06	228.57	2351.38	220.53
1024	3837.82	606.38	3764.30	594.76	3698.13	584.31
1280	4543.51	611.25	4473.61	601.85	4410.70	593.39
1518	4960.39	620.06	4895.88	612.00	4837.83	604.74

Back-to-Back (f/burst)		
	L->R	R->L
64	1074242	73343
128	1553894	126523
256	1245794	116600
512	1189972	111609
1024	919020	145207
1280	873753	117550
1518	806306	100791

	Frame Loss (%)		Round-Trip Latency (ms, Cut Through Mode)
	(100.0000 % Step)	(100.0000 % Step)	
	L->R	R->L	
64	20.464	34.446	19.47948
128	13.399	26.105	46.07573
256	7.421	23.885	16.34199
512	4.459	22.268	34.68575
1024	2.463	21.582	33.90063
1280	2.176	20.464	32.84539
1518	2.125	20.962	17.62367

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

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
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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:B2	10.112.0.100	7

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

RFC 2544

DTS Enabled	Enabled
Remote ID	MAX-860GB1

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	10
	Threshold (Mbit/s)		
	L->R	R->L	
	10000.0	10000.0	
Back-to-Back	Burst Time (MM:SS)		Accuracy (Frames)
	00:02		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	5
	Threshold (%)		
	L->R	R->L	
	0.01	0.1	
Latency	L->R		R->L
	Max. Rate (Mbit/s)		Max. Rate (Mbit/s)
	10000.00		10000.00
	Threshold (ms)		
	28.00000		

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	174
Broadcast	1	1
Unicast	4668377453	2882293306
Non-Unicast	1	175
Total	4668377454	2882293481

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	1287468837	44.6
65 - 127	107	0.0
128 - 255	668390380	23.1
256 - 511	447591049	15.5
512 - 1023	208595137	7.2
1024 - 1518	270247971	9.3
> 1518	0	0.0
Total	2882293481	

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.	7482.49	3969.37	5700.95	3024.28	4097.55	2173.70
	Max.	7482.49	3969.37	5700.95	3024.28	4097.55	2173.70
	Avg.	7482.49	3969.37	5700.95	3024.28	4097.55	2173.70
128	Min.	8374.99	4757.81	7243.24	4114.86	6224.65	3536.21
	Max.	8374.99	4757.81	7243.24	4114.86	6224.65	3536.21
	Avg.	8374.99	4757.81	7243.24	4114.86	6224.65	3536.21
256	Min.	8753.12	4664.68	8118.83	4326.66	7547.98	4022.44
	Max.	8753.12	4664.68	8118.83	4326.66	7547.98	4022.44
	Avg.	8753.12	4664.68	8118.83	4326.66	7547.98	4022.44
512	Min.	9213.74	4989.99	8867.36	4802.40	8555.62	4633.57
	Max.	9213.74	4989.99	8867.36	4802.40	8555.62	4633.57
	Avg.	9213.74	4989.99	8867.36	4802.40	8555.62	4633.57
1024	Min.	9398.43	5007.81	9218.38	4911.87	9056.34	4825.53
	Max.	9398.43	5007.81	9218.38	4911.87	9056.34	4825.53
	Avg.	9398.43	5007.81	9218.38	4911.87	9056.34	4825.53
1280	Min.	9511.24	4914.68	9364.92	4839.07	9233.22	4771.02
	Max.	9511.24	4914.68	9364.92	4839.07	9233.22	4771.02
	Avg.	9511.24	4914.68	9364.92	4839.07	9233.22	4771.02
1518	Min.	9489.99	4975.62	9366.59	4910.92	9255.52	4852.68
	Max.	9489.99	4975.62	9366.59	4910.92	9255.52	4852.68
	Avg.	9489.99	4975.62	9366.59	4910.92	9255.52	4852.68

Throughput (Frame/s)			
		L->R	R->L
64	Min.	11134670.2323	5906807.4764
	Max.	11134670.2323	5906807.4764
	Avg.	11134670.2323	5906807.4764
128	Min.	7073477.1596	4018421.9532
	Max.	7073477.1596	4018421.9532
	Avg.	7073477.1596	4018421.9532
256	Min.	3964276.7468	2112630.1361
	Max.	3964276.7468	2112630.1361
	Avg.	3964276.7468	2112630.1361
512	Min.	2164884.1522	1172462.2439
	Max.	2164884.1522	1172462.2439
	Avg.	2164884.1522	1172462.2439
1024	Min.	1125291.6822	599594.3548
	Max.	1125291.6822	599594.3548
	Avg.	1125291.6822	599594.3548
1280	Min.	914542.9935	472566.0605
	Max.	914542.9935	472566.0605
	Avg.	914542.9935	472566.0605
1518	Min.	771293.7429	404390.7910
	Max.	771293.7429	404390.7910
	Avg.	771293.7429	404390.7910

Back-to-Back (Mbit/s)							
Layer							
		All		Ethernet		IP	
		L->R	R->L	L->R	R->L	L->R	R->L
64	Min.	360.94	24.64	275.00	18.77	197.66	13.49
	Max.	360.94	24.64	275.00	18.77	197.66	13.49
	Avg.	360.94	24.64	275.00	18.77	197.66	13.49
128	Min.	919.90	74.90	795.59	64.77	683.71	55.67
	Max.	919.90	74.90	795.59	64.77	683.71	55.67

	Avg.	919.90	74.90	795.59	64.77	683.71	55.67
256	Min.	1375.35	128.72	1275.69	119.39	1185.99	111.00
	Max.	1375.35	128.72	1275.69	119.39	1185.99	111.00
	Avg.	1375.35	128.72	1275.69	119.39	1185.99	111.00
512	Min.	2532.25	237.50	2437.06	228.57	2351.38	220.53
	Max.	2532.25	237.50	2437.06	228.57	2351.38	220.53
	Avg.	2532.25	237.50	2437.06	228.57	2351.38	220.53
1024	Min.	3837.82	606.38	3764.30	594.76	3698.13	584.31
	Max.	3837.82	606.38	3764.30	594.76	3698.13	584.31
	Avg.	3837.82	606.38	3764.30	594.76	3698.13	584.31
1280	Min.	4543.51	611.25	4473.61	601.85	4410.70	593.39
	Max.	4543.51	611.25	4473.61	601.85	4410.70	593.39
	Avg.	4543.51	611.25	4473.61	601.85	4410.70	593.39
1518	Min.	4960.39	620.06	4895.88	612.00	4837.83	604.74
	Max.	4960.39	620.06	4895.88	612.00	4837.83	604.74
	Avg.	4960.39	620.06	4895.88	612.00	4837.83	604.74
	Min.	--	--	--	--	--	--
	Max.	--	--	--	--	--	--
	Avg.	--	--	--	--	--	--

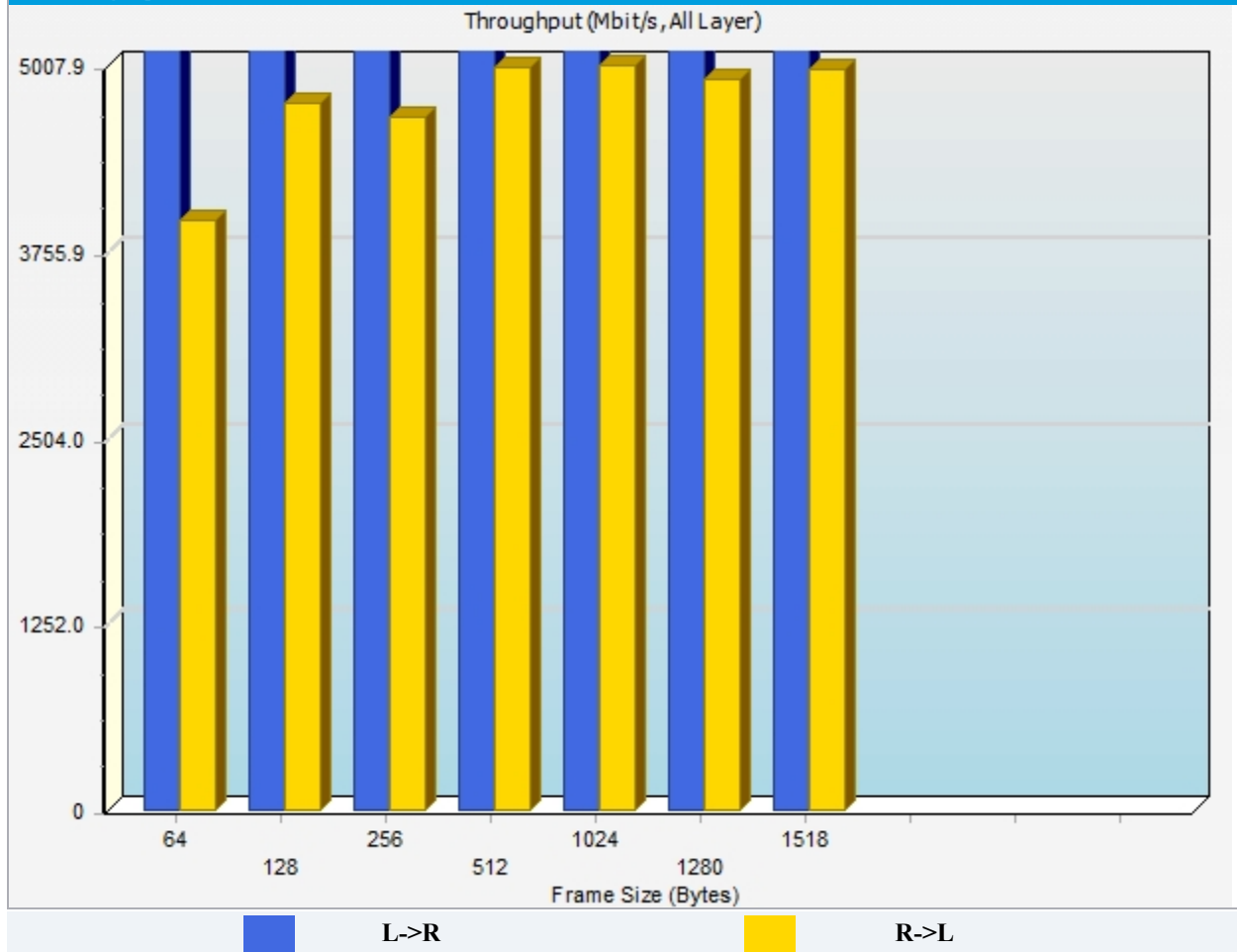
Back-to-Back (f/burst)			
		L->R	R->L
64	Min.	1074242	73343
	Max.	1074242	73343
	Avg.	1074242	73343
128	Min.	1553894	126523
	Max.	1553894	126523
	Avg.	1553894	126523
256	Min.	1245794	116600
	Max.	1245794	116600
	Avg.	1245794	116600
512	Min.	1189972	111609
	Max.	1189972	111609

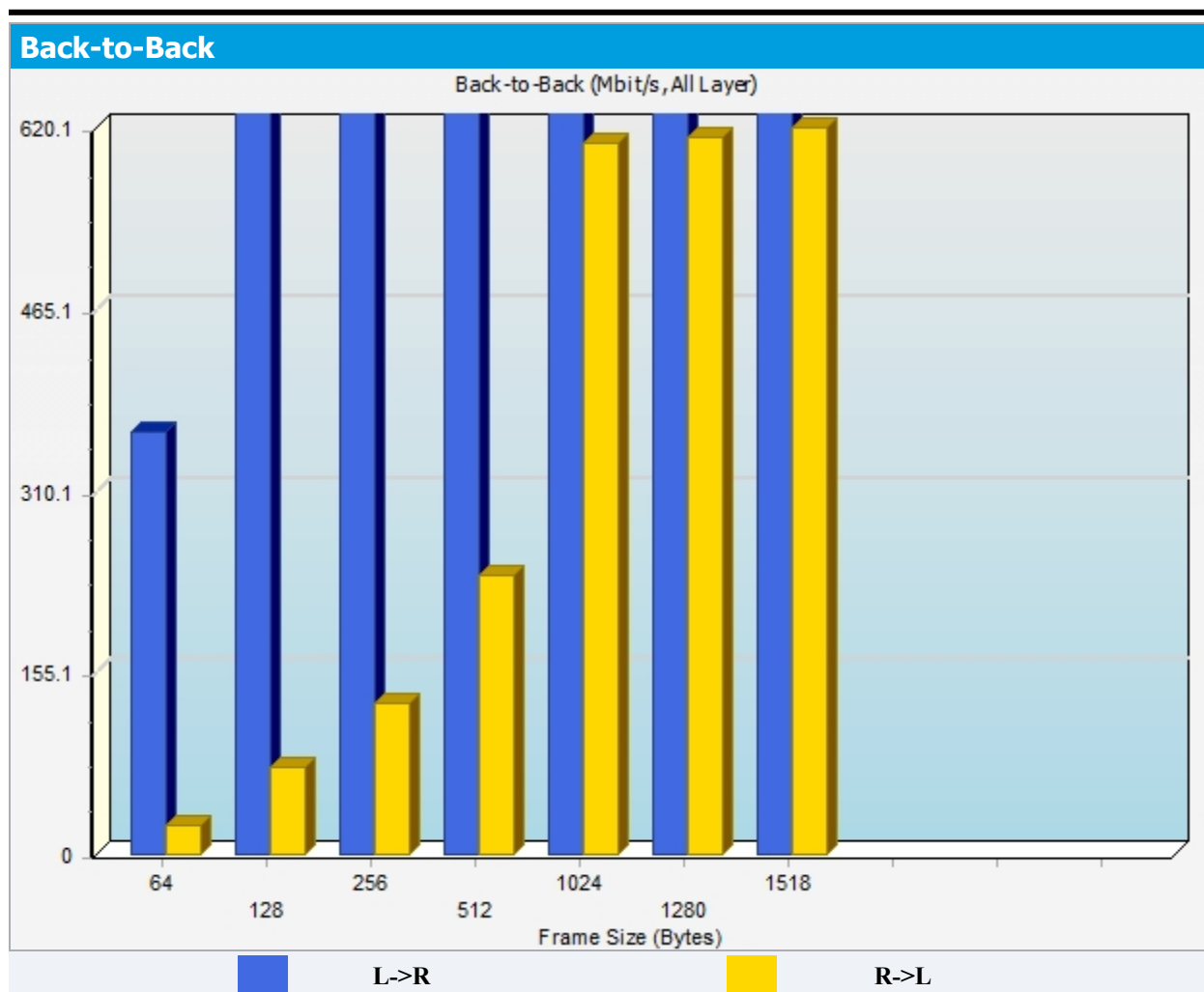
	Avg.	1189972	111609
1024	Min.	919020	145207
	Max.	919020	145207
	Avg.	919020	145207
1280	Min.	873753	117550
	Max.	873753	117550
	Avg.	873753	117550
1518	Min.	806306	100791
	Max.	806306	100791
	Avg.	806306	100791
	Min.	--	--
	Max.	--	--
	Avg.	--	--

		Frame Loss (% , 100.0000% Step)		Round-Trip Latency (ms, Cut Through Mode)
		L->R	R->L	
64	Min.	20.464	34.446	19.47948
	Max.	20.464	34.446	19.47948
	Avg.	20.464	34.446	19.47948
128	Min.	13.399	26.105	46.07573
	Max.	13.399	26.105	46.07573
	Avg.	13.399	26.105	46.07573
256	Min.	7.421	23.885	16.34199
	Max.	7.421	23.885	16.34199
	Avg.	7.421	23.885	16.34199
512	Min.	4.459	22.268	34.68575
	Max.	4.459	22.268	34.68575
	Avg.	4.459	22.268	34.68575
1024	Min.	2.463	21.582	33.90063
	Max.	2.463	21.582	33.90063
	Avg.	2.463	21.582	33.90063
1280	Min.	2.176	20.464	32.84539
	Max.	2.176	20.464	32.84539

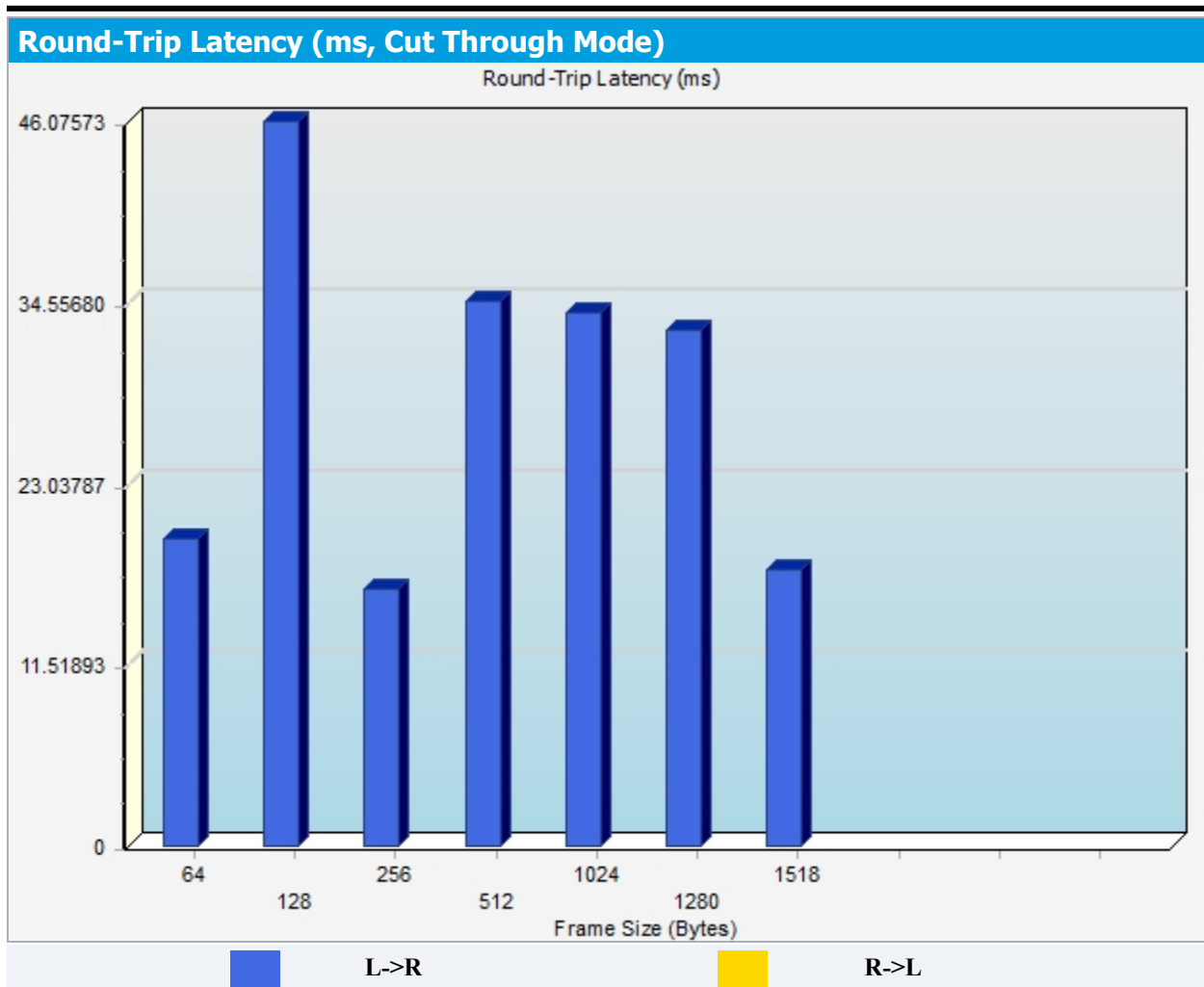
	Avg.	2.176	20.464	32.84539
1518	Min.	2.125	20.962	17.62367
	Max.	2.125	20.962	17.62367
	Avg.	2.125	20.962	17.62367
	Max.	--	--	--

Throughput









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	00:05	1	10	0	1
Back-to-Back			Burst Time (MM:SS)	Trials	Accuracy (Frames)	Acceptable Errors	Bursts
			00:02	1	1	0	1
Frame Loss	Max. Rate (Mbit/s)		Trial Duration (MM:SS)	Trials	Granularity (%)		
	L->R 10000.00	R->L 10000.00	00:05	1	5		
Latency	Max. Rate (Mbit/s)		Trial Duration (MM:SS)	Trials	Latency Measurement Mode		
	L->R 7482.49 - 9511.24 (Frame Size Dependent)		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 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)	27.9 °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 02:28:32 PM	Test Started		2021-09-02
2	09/02 03:48:50 PM	Test Stopped		 FAIL