Packet Blazer

Job Information

Job ID	1
Contractor	ALCOMA
Customer	
Report Date	2012-06-11 11:29:58
Operator Name	LANVI

File Name: D:\MP200-200Eth-256QAM-J.pdf

Comment: MP200-200Eth-256QAM, MII

Table of Contents

1. Setup

1.1. IPversion Status

Port	IP Version
Port1	IPv4
Port2	IPv4

2. Summary

2.1. Alarm

2.1.1. Alarms

2.1.1.1. Global

Alarm	H
Global	No Fault
Log Full	No Fault

2.1.1.2. Port

Alarm	H [1]	H [2]
LOS	N/A	N/A
Frequency	No Fault	No Fault

Frequency Analysis	Value [1]	Value [2]
Freq (bps)	--	--
Offset (ppm)	-15	-10

2.1.1.3.

Alarm	H [1]	H [2]
Error	No Fault	No Fault
Link	No Fault	No Fault

2.1.1.4. Higher Layer Protocol

Alarm	H [1]	H [2]
Error	No Fault	No Fault

2.1.1.5. Pattern

No information is available

2.1.1.6. Other

No information is available

2.1.2. Logger

2.1.2.1. Logger Events

ID	Date/Time	Data Path	Event	Duration	Count	Rate
1	2012-06-11 10:33:30	Test 1	Test Started			
2	2012-06-11 11:18:07	Test 1	Test Stopped			

2.2. Test

2.2.1. Test Status

Item	Value
Start Time:	2012-06-11 10:33:30
Port 1 Link	Up
Port 2 Link	Up
Expert Mode Verdict	--
RFC 2544	Completed

2.2.2. Test Configuration

Item	Value
Application Type	RFC 2544 - Dual Ports
Test Name	TEST
Test Description	

2.2.3. Test Preferences

Item	Value
Couple Start/Enable TX	Enabled

3. Electrical RJ-45 [P1]/Port

3.1. TX

3.1.1. Configuration

Item	Value
Ethernet port crossover	Disabled

3.1.2. Frequency

Item	Value
Frequency Offset (ppm)	0
On/Off	N/A
Actual Frequency (bps)	1000000000
Nominal Frequency (bps)	1000000000

3.2. RX

3.2.1. Alarm Analysis

Alarm	H	Seconds
Frequency	No Fault	0

3.2.2. Frequency Analysis

Item	Value
Frequency (bps)	--
Frequency Offset (ppm)	-15
Max. Negative Offset (ppm)	-15
Max. Positive Offset (ppm)	0

3.3. Interface

3.3.1. Configuration

Item	Value
Enable Auto-Negotiation	Enabled
Speed	1Gbps
Duplex	Full
Flow Control	None
Local Clock	N/A

3.3.2. Status

Item	Value
Link	Up
Auto-Negotiation	Completed

3.4. Network

3.4.1. MAC Configuration

Item	Value
MAC Address	00:03:01:08:53:29

3.4.1.1. VLAN

Item	Value
Enable VLAN	Disabled

3.4.2. IP Configuration

Item	Value
IP Address	10.10.83.41
Subnet Mask	255.255.0.0
Enable DHCP	Disabled
Enable Default Gateway	Disabled
Default Gateway	N/A

3.4.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A

3.5. Auto-Neg. TX

3.5.1. Configuration

Item	Value
Enable Advanced Auto-Neg. Mode	Disabled
Speed	N/A
Duplex	N/A
Flow Control	N/A

3.5.2. Auto-Neg. Fault register

No information is available

3.5.3. Local Capabilities

No information is available

3.6. Auto-Neg. RX

3.6.1. Configuration

Item	Value
Link	Up
Auto-Negotiation	Completed
Remote Fault	No Error
Speed	1Gbps
Duplex	Full
Flow Control	None
Local Clock	Remote

3.6.2. Link Partner Capabilities

Item	Value
10Base-T, Half Duplex	True
10Base-T, Full Duplex	True
100Base-TX, Half Duplex	True
100Base-TX, Full Duplex	True
1000Base-T, Half Duplex	False
1000Base-T, Full Duplex	True
1000Base-X, Half Duplex	N/A
1000Base-X, Full Duplex	N/A
Symmetric Pause	True
Asymmetric Pause	True

4. Electrical RJ-45 [P2]/Port

4.1. TX

4.1.1. Configuration

Item	Value
Ethernet port crossover	Disabled

4.1.2. Frequency

Item	Value
Frequency Offset (ppm)	0
On/Off	N/A
Actual Frequency (bps)	1000000000
Nominal Frequency (bps)	1000000000

4.2. RX

4.2.1. Alarm Analysis

Alarm	H	Seconds
Frequency	No Fault	0

4.2.2. Frequency Analysis

Item	Value
Frequency (bps)	--
Frequency Offset (ppm)	-10
Max. Negative Offset (ppm)	-11
Max. Positive Offset (ppm)	0

4.3. Interface

4.3.1. Configuration

Item	Value
Enable Auto-Negotiation	Enabled
Speed	1Gbps
Duplex	Full
Flow Control	None
Local Clock	N/A

4.3.2. Status

Item	Value
Link	Up
Auto-Negotiation	Completed

4.4. Network

4.4.1. MAC Configuration

Item	Value
MAC Address	00:03:01:08:53:2A

4.4.1.1. VLAN

Item	Value
Enable VLAN	Disabled

4.4.2. IP Configuration

Item	Value
IP Address	10.10.83.42
Subnet Mask	255.255.0.0
Enable DHCP	Disabled
Enable Default Gateway	Disabled
Default Gateway	N/A

4.4.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A

4.5. Auto-Neg. TX

4.5.1. Configuration

Item	Value
Enable Advanced Auto-Neg. Mode	Disabled
Speed	N/A
Duplex	N/A
Flow Control	N/A

4.5.2. Auto-Neg. Fault register

No information is available

4.5.3. Local Capabilities

No information is available

4.6. Auto-Neg. RX

4.6.1. Configuration

Item	Value
Link	Up
Auto-Negotiation	Completed
Remote Fault	No Error
Speed	1Gbps
Duplex	Full
Flow Control	None
Local Clock	Remote

4.6.2. Link Partner Capabilities

Item	Value
10Base-T, Half Duplex	True
10Base-T, Full Duplex	True
100Base-TX, Half Duplex	True
100Base-TX, Full Duplex	True
1000Base-T, Half Duplex	False
1000Base-T, Full Duplex	True
1000Base-X, Half Duplex	N/A
1000Base-X, Full Duplex	N/A
Symmetric Pause	True
Asymmetric Pause	True

5. Electrical RJ-45 [P1]/Ethernet Framed Layer 2/Traffic Stream/Stream Generation

5.1. Overview

No.	Stream Name	Rate (%)	Enable
1	RFC 2544 Stream	19.500142544901642	Disabled

5.2. Stream Configuration

5.2.1. RFC 2544 Stream

5.2.1.1. Frame Configuration

5.2.1.1.1. Frame Configuration

Item	Value	Size
Data Link	Ethernet II	N/A
Network	IPv4	N/A
Transport	UDP	N/A

5.2.1.1.2. Traffic Shaping

Item	Value
Transmit Mode	N/A
Maximum Rate (%)	19.500142544901642
Frame Count	N/A

5.2.1.1.2.1. Burst

No information is available

5.2.1.1.2.2. Ramp

No information is available

5.2.1.2. MAC

5.2.1.2.1. Source

Item	Value
MAC Address	00:03:01:08:53:29

5.2.1.2.2. Destination

Item	Value
MAC Address	00:03:01:08:53:2A
Resolve MAC Address	Disabled
Status	--

5.2.1.2.2.1. VLAN

Item	Value
Enable VLAN	Disabled

5.2.1.2.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A
EtherType	0800

5.2.1.3. IP

5.2.1.3.1. Source

Item	Value
IP Address	10.10.83.41
Subnet Mask	255.255.0.0

5.2.1.3.1.1. IP Multiplicator

Item	Value
Enable	Disabled
Range	N/A

5.2.1.3.2. Destination

Item	Value
IP Address	10.10.83.42
TTL	128
IP TOS/DS	00

5.2.1.3.2.1. Advanced TOS/DS

Item	Value
Enable Differentiated Services	Disabled

5.2.1.3.2.1.1. DS

No information is available

5.2.1.3.2.1.2. TOS

Item	Value
Precedence	000 (Routine)
Delay	Normal
Throughput	Normal
Reliability	Normal
Monetary Cost	Normal
Reserved Bit	0

5.2.1.3.2.2. Default Gateway

Item	Value
Enable	Disabled
Default Gateway	N/A

5.2.1.4. UDP

5.2.1.4.1. Source

Item	Value
Port	49184

5.2.1.4.2. Destination

Item	Value
Port	7

5.2.1.5. Payload

Item	Value
Pattern	CC

6. Electrical RJ-45 [P2]/Ethernet Framed Layer 2/Traffic Stream/Stream Generation

6.1. Overview

No.	Stream Name	Rate (%)	Enable
1	RFC 2544 Stream	19.500142544901642	Disabled

6.2. Stream Configuration

6.2.1. RFC 2544 Stream

6.2.1.1. Frame Configuration

6.2.1.1.1. Frame Configuration

Item	Value	Size
Data Link	Ethernet II	N/A
Network	IPv4	N/A
Transport	UDP	N/A

6.2.1.1.2. Traffic Shaping

Item	Value
Transmit Mode	N/A
Maximum Rate (%)	19.500142544901642
Frame Count	N/A

6.2.1.1.2.1. Burst

No information is available

6.2.1.1.2.2. Ramp

No information is available

6.2.1.2. MAC

6.2.1.2.1. Source

Item	Value
MAC Address	00:03:01:08:53:2A

6.2.1.2.2. Destination

Item	Value
MAC Address	00:03:01:08:53:29
Resolve MAC Address	Disabled
Status	--

6.2.1.2.2.1. VLAN

Item	Value
Enable VLAN	Disabled

6.2.1.2.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A
EtherType	0800

6.2.1.3. IP

6.2.1.3.1. Source

Item	Value
IP Address	10.10.83.42
Subnet Mask	255.255.0.0

6.2.1.3.1.1. IP Multiplicator

Item	Value
Enable	Disabled
Range	N/A

6.2.1.3.2. Destination

Item	Value
IP Address	10.10.83.41
TTL	128
IP TOS/DS	00

6.2.1.3.2.1. Advanced TOS/DS

Item	Value
Enable Differentiated Services	Disabled

6.2.1.3.2.1.1. DS

No information is available

6.2.1.3.2.1.2. TOS

Item	Value
Precedence	000 (Routine)
Delay	Normal
Throughput	Normal
Reliability	Normal
Monetary Cost	Normal
Reserved Bit	0

6.2.1.3.2.2. Default Gateway

Item	Value
Enable	Disabled
Default Gateway	N/A

6.2.1.4. UDP

6.2.1.4.1. Source

Item	Value
Port	49184

6.2.1.4.2. Destination

Item	Value
Port	7

6.2.1.5. Payload

Item	Value
Pattern	CC

7. RFC 2544

7.1. Global

7.1.1. Configuration

Item	Value
Frame Size Distribution	User Defined
Quantity	7
Frame Size 1	64
Frame Size 2	128
Frame Size 3	256
Frame Size 4	512
Frame Size 5	1518
Frame Size 6	2048
Frame Size 7	10240
Direction	Bidirectional
Coupled	Enabled

7.1.2. Test Procedure

Test	Status	State
Throughput	Enabled	Completed
Back-to-Back	Enabled	Completed
Frame Loss	Enabled	Completed
Latency	Enabled	Completed

7.2. Throughput

7.2.1. Configuration

Item	Value
Test Time (MM:SS)	00:03
Accuracy (%)	0.1
Nb. of Acceptable Errors	0
Nb. of Trials to Average	1
Nb. of Validations	1
Maximum Rate P1-to-P2 (%)	38
Maximum Rate P2-to-P1 (%)	38
Minimum Test Time (Seconds)	--

7.2.2. Results

Item	Value
Test State	Completed
Status Message	None

7.2.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	7292	7292
RX	7292	7292

7.2.2.2. Throughput Results

7.2.2.2.1. Current

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	199.524941	199.524941
128	199.460916	199.460916
256	199.566161	199.566161
512	199.475066	199.475066
1518	199.50707	199.50707
2048	199.49836	199.49836
10240	199.498338	199.498338

7.2.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	199.524941	199.524941
128	199.460916	199.460916
256	199.566161	199.566161
512	199.475066	199.475066
1518	199.50707	199.50707
2048	199.49836	199.49836
10240	199.498338	199.498338

7.2.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	199.524941	199.524941
128	199.460916	199.460916
256	199.566161	199.566161
512	199.475066	199.475066
1518	199.50707	199.50707
2048	199.49836	199.49836
10240	199.498338	199.498338

7.2.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	199.524941	199.524941
128	199.460916	199.460916
256	199.566161	199.566161
512	199.475066	199.475066
1518	199.50707	199.50707
2048	199.49836	199.49836
10240	199.498338	199.498338

7.3. Back-to-Back

7.3.1. Configuration

Item	Value
Max. Time Worth of Frames (MM:SS)	00:05
Accuracy (Frames)	1
Nb. of Acceptable Errors	0
Nb. of Trials to Average	1
Nb. of Bursts	1
Minimum Test Time (Seconds)	--

7.3.2. Results

Item	Value
Test State	Completed
Status Message	None

7.3.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	7	7
RX	7	7

7.3.2.2. Back-to-Back Results

7.3.2.2.1. Current

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	135	135
128	135	135
256	135	135
512	134	134
1518	45	45
2048	33	33
10240	7	7

7.3.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	135	135
128	135	135
256	135	135
512	134	134
1518	45	45
2048	33	33
10240	7	7

7.3.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	135	135
128	135	135
256	135	135
512	134	134
1518	45	45
2048	33	33
10240	7	7

7.3.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	135	135
128	135	135
256	135	135
512	134	134
1518	45	45
2048	33	33
10240	7	7

7.4. Frame Loss

7.4.1. Configuration

Item	Value
Test Time (MM:SS)	00:10
Test Granularity (%)	10
Nb. of Trials to Average	1
Maximum Rate P1-to-P2 (%)	19.5
Maximum Rate P2-to-P1 (%)	19.5
Minimum Test Time (Seconds)	--

7.4.2. Results

Item	Value
Test State	Completed
Status Message	None

7.4.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	11574	11574
RX	11574	11574

7.4.2.2. Frame Loss Results

7.4.2.2.1. Current

Frame Size	P1-to-P2 - Step 19.5% (% Loss)	P2-to-P1 - Step 19.5% (% Loss)
64	0.0	0.0
128	0.0	0.0
256	0.0	0.0
512	0.0	0.0
1518	0.0	0.0
2048	0.0	0.0
10240	0.0	0.0

7.4.2.2.2. Minimum

Frame Size	P1-to-P2 - Step 19.5% (% Loss)	P2-to-P1 - Step 19.5% (% Loss)
64	0.0	0.0
128	0.0	0.0
256	0.0	0.0
512	0.0	0.0
1518	0.0	0.0
2048	0.0	0.0
10240	0.0	0.0

7.4.2.2.3. Maximum

Frame Size	P1-to-P2 - Step 19.5% (% Loss)	P2-to-P1 - Step 19.5% (% Loss)
64	0.0	0.0
128	0.0	0.0
256	0.0	0.0
512	0.0	0.0
1518	0.0	0.0
2048	0.0	0.0
10240	0.0	0.0

7.4.2.2.4. Average

Frame Size	P1-to-P2 - Step 19.5% (% Loss)	P2-to-P1 - Step 19.5% (% Loss)
64	0.0	0.0
128	0.0	0.0
256	0.0	0.0
512	0.0	0.0
1518	0.0	0.0
2048	0.0	0.0
10240	0.0	0.0

7.5. Latency

7.5.1. Configuration

Item	P1-to-P2	P2-to-P1
Test Time (MM:SS)	00:05	00:05
Nb. of Trials to Average	1	1
Maximum Rate - Frame Size 64	19.5	19.5
Maximum Rate - Frame Size 128	19.5	19.5
Maximum Rate - Frame Size 256	19.5	19.5
Maximum Rate - Frame Size 512	19.5	19.5
Maximum Rate - Frame Size 1518	19.5	19.5
Maximum Rate - Frame Size 2048	19.5	19.5
Maximum Rate - Frame Size 10240	19.5	19.5
Unit	%	%
Minimum Test Time (Seconds)	--	--
Copy From Throughput Test	Disabled	Disabled
Margin (%)	N/A	N/A

7.5.2. Results

Item	Value
Test State	Completed
Status Message	None

7.5.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	11879	11879
RX	11879	11879

7.5.2.2. Latency Results

7.5.2.2.1. Current

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	19.5	0.221245	19.5	0.22134800000000002
128	19.5	0.224383	19.5	0.224331
256	19.5	0.230503	19.5	0.230503
512	19.5	0.24279799999999999	19.5	0.242747
1518	19.5	0.290998	19.5	0.29120300000000005
2048	19.5	0.31656300000000004	19.5	0.31656300000000004
10240	19.5	0.710031	19.5	0.709979

7.5.2.2.2. Minimum

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	19.5	0.221245	19.5	0.22134800000000002
128	19.5	0.224383	19.5	0.224331
256	19.5	0.230503	19.5	0.230503
512	19.5	0.24279799999999999	19.5	0.242747
1518	19.5	0.290998	19.5	0.29120300000000005
2048	19.5	0.31656300000000004	19.5	0.31656300000000004
10240	19.5	0.710031	19.5	0.709979

7.5.2.2.3. Maximum

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	19.5	0.221245	19.5	0.22134800000000002
128	19.5	0.224383	19.5	0.224331
256	19.5	0.230503	19.5	0.230503
512	19.5	0.24279799999999999	19.5	0.242747
1518	19.5	0.290998	19.5	0.29120300000000005
2048	19.5	0.31656300000000004	19.5	0.31656300000000004
10240	19.5	0.710031	19.5	0.709979

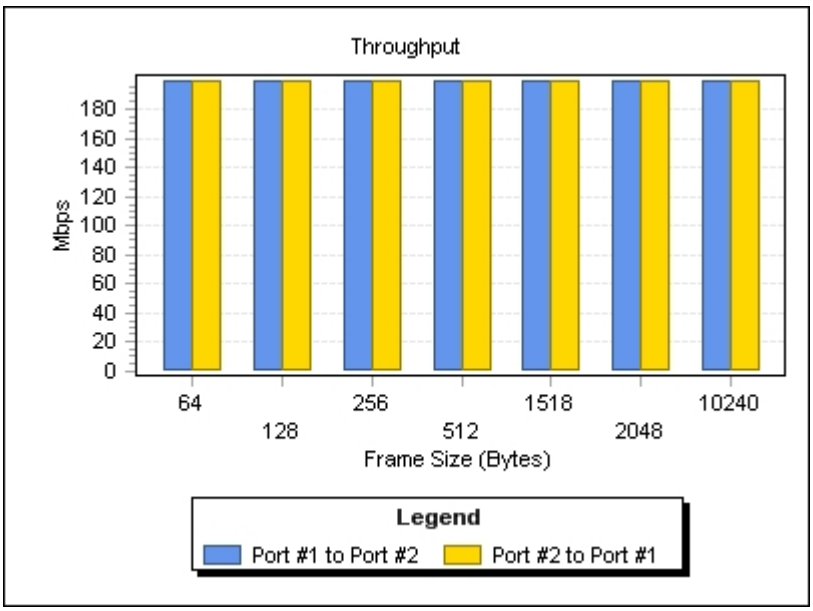
7.5.2.2.4. Average

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	19.5	0.221245	19.5	0.22134800000000002
128	19.5	0.224383	19.5	0.224331
256	19.5	0.230503	19.5	0.230503
512	19.5	0.24279799999999999	19.5	0.242747
1518	19.5	0.290998	19.5	0.29120300000000005
2048	19.5	0.31656300000000004	19.5	0.31656300000000004
10240	19.5	0.710031	19.5	0.709979

7.6. Graph

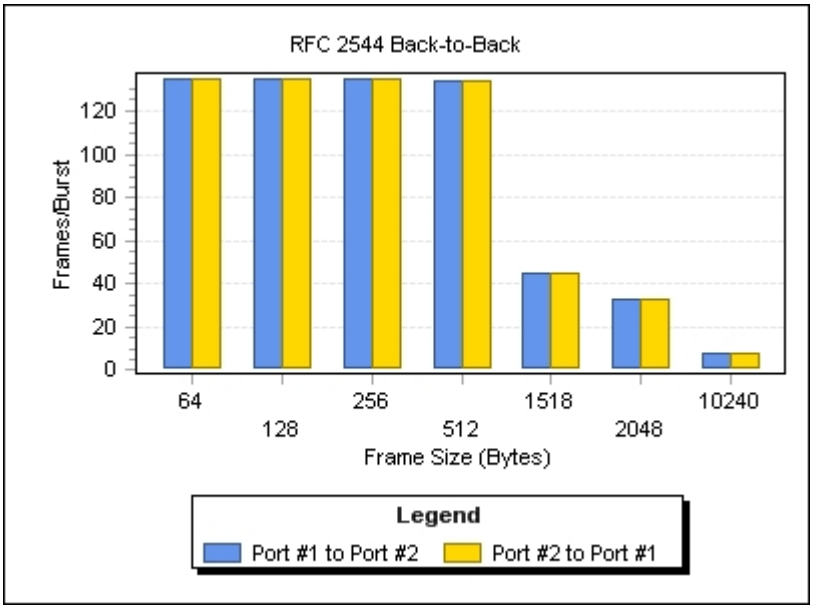
7.6.1. Throughput

Displayed Results	Current
Direction	Bidirectional
Unit	Mbps
Layer	Layer 1-2-3



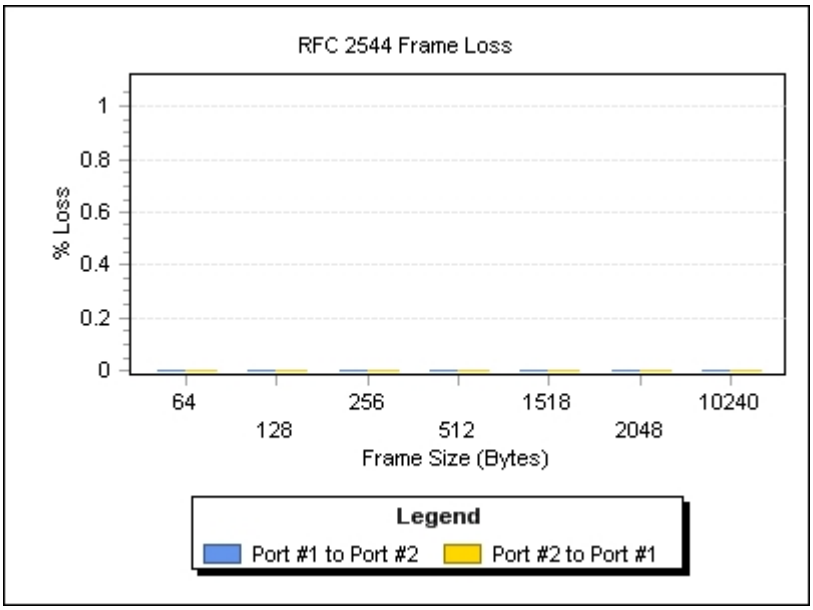
7.6.2. RFC 2544 Back-to-Back

Displayed Results	Current
Direction	Bidirectional
Unit	Frames/Burst
Layer	Layer 1-2-3



7.6.3. RFC 2544 Frame Loss

Displayed Results	Current
Direction	Bidirectional
Unit	% Loss
Displayed Step	19.5%



7.6.4. RFC 2544 Latency

Displayed Results	Current
Direction	Bidirectional
Unit	ms
Mode	Cut Through