



Packet Blazer

Job Information

Job ID	1
Contractor	ALCOMA
Customer	
Report Date	2014-03-05 11:56:02
Operator Name	LANVI

File Name: D:\New Folder\Test-RFC2544-spoje-MP400-900Eth-1024QAM-112MHz.pdf

Comment: Test RFC2544 spoje MP400-900Eth-1024QAM-112MHz

Table of Contents

1. Summary 3

2. Electrical RJ-45 [P1]/Port 5

3. Electrical RJ-45 [P2]/Port 9

4. RFC 2544 13

1. Summary

1.1. Alarm

1.1.1. Alarms

1.1.1.1. Global

Alarm	H
Global	No Fault
Log Full	No Fault

1.1.1.2. 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)	-2	-2

1.1.1.3.

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

1.1.1.4. Higher Layer Protocol

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

1.1.1.5. Pattern

No information is available

1.1.1.6. Other

No information is available

1.1.2. Logger

1.1.2.1. Logger Events

ID	Date/Time	Data Path	Event	Duration	Count	Rate
1	2014-03-05 10:38:00	Test 1	Test Started			
2	2014-03-05 11:14:45	Test 1	Test Stopped			

1.2. Test

1.2.1. Test Status

Item	Value
Start Time:	2014-03-05 10:38:00
Port 1 Link	Down
Port 2 Link	Down
Expert Mode Verdict	--
RFC 2544	Completed

1.2.2. Test Configuration

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

1.2.3. Test Preferences

Item	Value
Couple Start/Enable TX	Enabled

2. Electrical RJ-45 [P1]/Port

2.1. TX

2.1.1. Configuration

Item	Value
Ethernet port crossover	Disabled

2.1.2. Frequency

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

2.2. RX

2.2.1. Alarm Analysis

Alarm	H	Seconds
Frequency	No Fault	0

2.2.2. Frequency Analysis

Item	Value
Frequency (bps)	--
Frequency Offset (ppm)	-2
Max. Negative Offset (ppm)	-2
Max. Positive Offset (ppm)	0

2.3. Interface

2.3.1. Configuration

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

2.3.2. Status

Item	Value
Link	Down
Auto-Negotiation	Negotiating

2.4. Network**2.4.1. MAC Configuration**

Item	Value
MAC Address	00:03:01:FC:91:A5

2.4.1.1. VLAN

Item	Value
Enable VLAN	Disabled

2.4.2. 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

2.4.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A

2.5. Auto-Neg. TX**2.5.1. Configuration**

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

2.5.2. Auto-Neg. Fault register

No information is available

2.5.3. Local Capabilities

No information is available

2.6. Auto-Neg. RX**2.6.1. Configuration**

Item	Value
Link	Down
Auto-Negotiation	Negotiating
Remote Fault	--
Speed	--
Duplex	--
Flow Control	--
Local Clock	--

2.6.2. Link Partner Capabilities

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

3. Electrical RJ-45 [P2]/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)	-2
Max. Negative Offset (ppm)	-2
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	Down
Auto-Negotiation	Negotiating

3.4. Network**3.4.1. MAC Configuration**

Item	Value
MAC Address	00:03:01:FC:91:A6

3.4.1.1. VLAN

Item	Value
Enable VLAN	Disabled

3.4.2. 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

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	Down
Auto-Negotiation	Negotiating
Remote Fault	--
Speed	--
Duplex	--
Flow Control	--
Local Clock	--

3.6.2. Link Partner Capabilities

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

4. RFC 2544

4.1. Global

4.1.1. 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

4.1.2. Test Procedure

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

4.2. Throughput

4.2.1. Configuration

Item	Value
Test Time (MM:SS)	00:01
Accuracy (%)	1
Nb. of Acceptable Errors	10
Nb. of Trials to Average	1
Nb. of Validations	1
Maximum Rate P1-to-P2 (%)	100
Maximum Rate P2-to-P1 (%)	100
Minimum Test Time (Seconds)	--

4.2.2. Results

Item	Value
Test State	Completed
Status Message	None

4.2.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	10889	10889
RX	10889	10889

4.2.2.2. Throughput Results**4.2.2.2.1. Current**

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	965.517241	965.517241
128	967.320261	967.320261
256	932.432432	932.432432
512	912.521441	912.521441
1518	899.941486	899.941486
2048	893.690579	893.690579
10240	893.728223	893.728223

4.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	965.517241	965.517241
128	967.320261	967.320261
256	932.432432	932.432432
512	912.521441	912.521441
1518	899.941486	899.941486
2048	893.690579	893.690579
10240	893.728223	893.728223

4.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	965.517241	965.517241
128	967.320261	967.320261
256	932.432432	932.432432
512	912.521441	912.521441
1518	899.941486	899.941486
2048	893.690579	893.690579
10240	893.728223	893.728223

4.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	965.517241	965.517241
128	967.320261	967.320261
256	932.432432	932.432432
512	912.521441	912.521441
1518	899.941486	899.941486
2048	893.690579	893.690579
10240	893.728223	893.728223

4.3. Back-to-Back

4.3.1. Configuration

Item	Value
Max. Time Worth of Frames (MM:SS)	00:05
Accuracy (Frames)	1
Nb. of Acceptable Errors	10
Nb. of Trials to Average	1
Nb. of Bursts	1
Minimum Test Time (Seconds)	--

4.3.2. Results

Item	Value
Test State	Completed
Status Message	None

4.3.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	154	154
RX	144	144

4.3.2.2. Back-to-Back Results**4.3.2.2.1. Current**

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	5925	5925
128	5689	5689
256	2413	2413
512	1699	1699
1518	548	548
2048	432	432
10240	154	154

4.3.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	5925	5925
128	5689	5689
256	2413	2413
512	1699	1699
1518	548	548
2048	432	432
10240	154	154

4.3.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	5925	5925
128	5689	5689
256	2413	2413
512	1699	1699
1518	548	548
2048	432	432
10240	154	154

4.3.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Frames/Burst)	P2-to-P1 - Layer 1-2-3 (Frames/Burst)
64	5925	5925
128	5689	5689
256	2413	2413
512	1699	1699
1518	548	548
2048	432	432
10240	154	154

4.4. Frame Loss

4.4.1. Configuration

Item	Value
Test Time (MM:SS)	00:01
Test Granularity (%)	10
Nb. of Trials to Average	1
Maximum Rate P1-to-P2 (%)	85
Maximum Rate P2-to-P1 (%)	85
Minimum Test Time (Seconds)	--

4.4.2. Results

Item	Value
Test State	Completed
Status Message	None

4.4.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	9137	6701
RX	9137	6701

4.4.2.2. Frame Loss Results**4.4.2.2.1. Current**

Frame Size	P1-to-P2 - Step 85% (% Loss)	P2-to-P1 - Step 85% (% 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

4.4.2.2.2. Minimum

Frame Size	P1-to-P2 - Step 85% (% Loss)	P2-to-P1 - Step 85% (% 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

4.4.2.2.3. Maximum

Frame Size	P1-to-P2 - Step 85% (% Loss)	P2-to-P1 - Step 85% (% 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

4.4.2.2.4. Average

Frame Size	P1-to-P2 - Step 85% (% Loss)	P2-to-P1 - Step 85% (% 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

4.5. Latency

4.5.1. Configuration

Item	P1-to-P2	P2-to-P1
Test Time (MM:SS)	00:01	00:01
Nb. of Trials to Average	1	1
Maximum Rate - Frame Size 64	85	85
Maximum Rate - Frame Size 128	85	85
Maximum Rate - Frame Size 256	85	85
Maximum Rate - Frame Size 512	85	85
Maximum Rate - Frame Size 1518	85	85
Maximum Rate - Frame Size 2048	85	85
Maximum Rate - Frame Size 10240	85	85
Unit	%	%
Minimum Test Time (Seconds)	--	--
Copy From Throughput Test	Disabled	Disabled
Margin (%)	N/A	N/A

4.5.2. Results

Item	Value
Test State	Completed
Status Message	None

4.5.2.1. Frame Count

	P1-to-P2	P2-to-P1
TX	10356	10356
RX	10356	10356

4.5.2.2. Latency Results

4.5.2.2.1. Current

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	85.0	0.047737	85.0	0.04789099999999996
128	85.0	0.049537	85.0	0.04963899999999996
256	85.0	0.052675	85.0	0.052675
512	85.0	0.059104000000000004	85.0	0.059105
1518	85.0	0.084053	85.0	0.084053
2048	85.0	0.097376	85.0	0.097376
10240	85.0	0.3018	85.0	0.301851

4.5.2.2.2. Minimum

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	85.0	0.047737	85.0	0.04789099999999996
128	85.0	0.049537	85.0	0.04963899999999996
256	85.0	0.052675	85.0	0.052675
512	85.0	0.059104000000000004	85.0	0.059105
1518	85.0	0.084053	85.0	0.084053
2048	85.0	0.097376	85.0	0.097376
10240	85.0	0.3018	85.0	0.301851

4.5.2.2.3. Maximum

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	85.0	0.047737	85.0	0.04789099999999996
128	85.0	0.049537	85.0	0.04963899999999996
256	85.0	0.052675	85.0	0.052675
512	85.0	0.059104000000000004	85.0	0.059105
1518	85.0	0.084053	85.0	0.084053
2048	85.0	0.097376	85.0	0.097376
10240	85.0	0.3018	85.0	0.301851

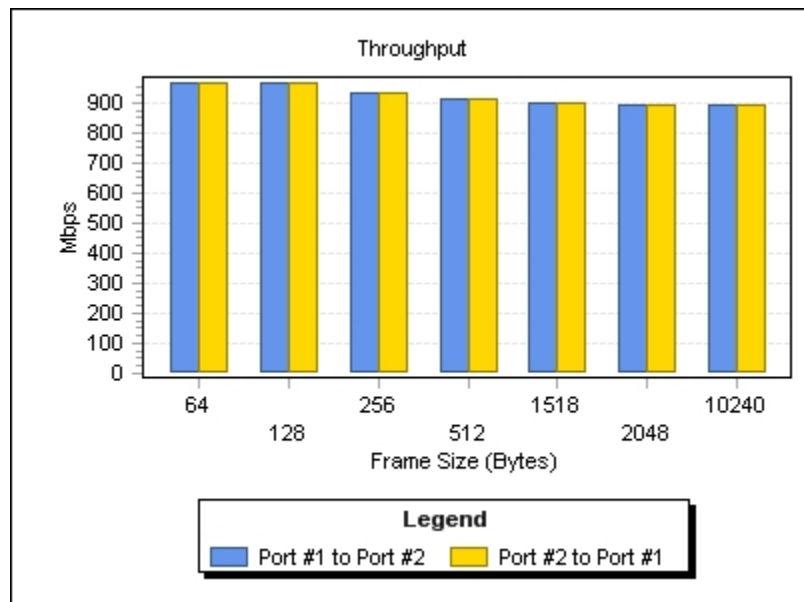
4.5.2.2.4. Average

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	85.0	0.047737	85.0	0.047890999999999996
128	85.0	0.049537	85.0	0.049638999999999996
256	85.0	0.052675	85.0	0.052675
512	85.0	0.059104000000000004	85.0	0.059105
1518	85.0	0.084053	85.0	0.084053
2048	85.0	0.097376	85.0	0.097376
10240	85.0	0.3018	85.0	0.301851

4.6. Graph

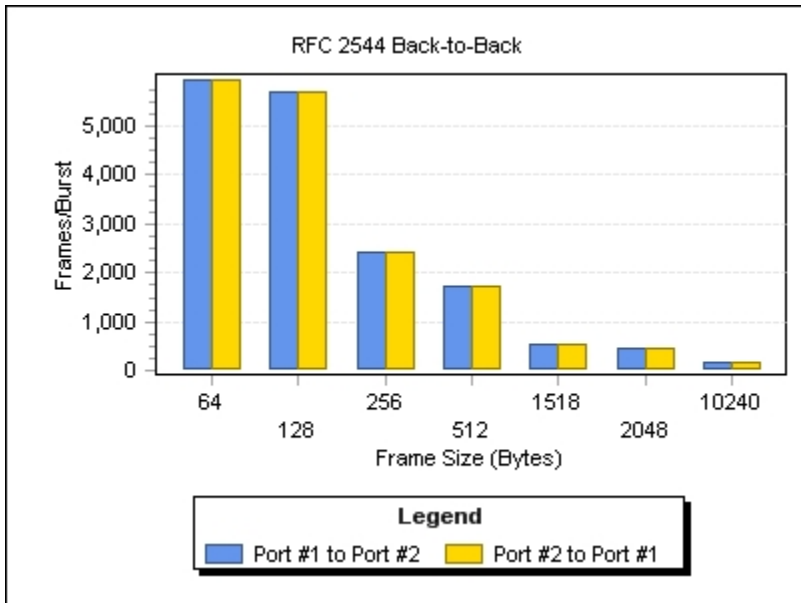
4.6.1. Throughput

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



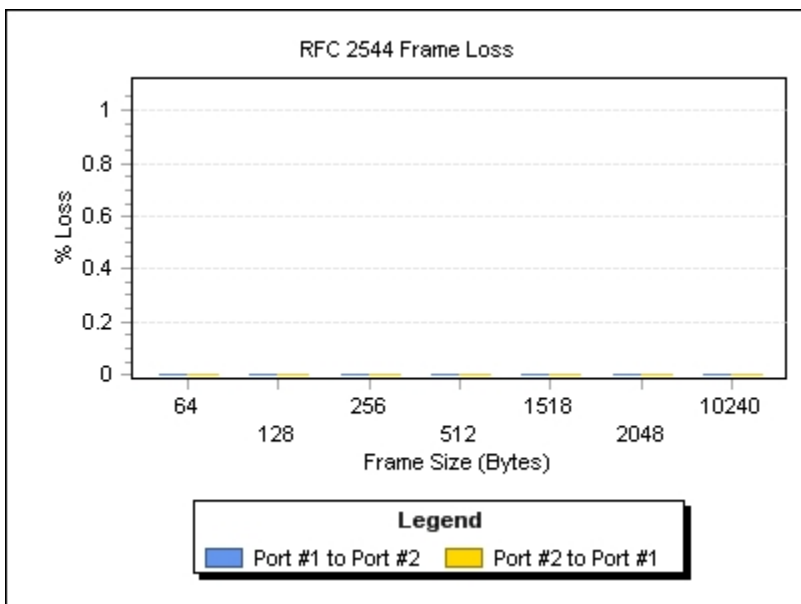
4.6.2. RFC 2544 Back-to-Back

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



4.6.3. RFC 2544 Frame Loss

Displayed Results	Current
Direction	Bidirectional
Unit	% Loss
Displayed Step	85%



4.6.4. RFC 2544 Latency

Displayed Results	Current
Direction	Bidirectional
Unit	μ s
Mode	Cut Through

