



Packet Blazer

Job Information

Job ID	1
Contractor	ALCOMA
Customer	
Report Date	2014-01-10 13:02:02
Operator Name	LANVI

File Name: D:\Test RFC2544 spoje MP400-250Eth-1024QAM-28MHz.pdf

Comment: Test RFC2544 spoje MP400-250Eth-1024QAM-28MHz

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	-8

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	2014-01-10 11:36:18	Test 1	Test Started			
2	2014-01-10 12:20:56	Test 1	Test Stopped			

1.2. Test

1.2.1. Test Status

Item	Value
Start Time:	2014-01-10 11:36:18
Port 1 Link	Up
Port 2 Link	Up
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)	0
Max. Positive Offset (ppm)	2

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	Up
Auto-Negotiation	Completed

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

2.6.2. 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

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)	-8
Max. Negative Offset (ppm)	-8
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: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	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. 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)	00:03
Accuracy (%)	0.1
Nb. of Acceptable Errors	0
Nb. of Trials to Average	1
Nb. of Validations	1
Maximum Rate P1-to-P2 (%)	50
Maximum Rate P2-to-P1 (%)	50
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	9080	9080
RX	9080	9080

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	288.659794	288.659794
128	269.581056	269.581056
256	259.398496	259.398496
512	253.937947	253.937947
1518	250	250
2048	249.216679	249.216679
10240	248.438181	248.438181

4.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	288.659794	288.659794
128	269.581056	269.581056
256	259.398496	259.398496
512	253.937947	253.937947
1518	250	250
2048	249.216679	249.216679
10240	248.438181	248.438181

4.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	288.659794	288.659794
128	269.581056	269.581056
256	259.398496	259.398496
512	253.937947	253.937947
1518	250	250
2048	249.216679	249.216679
10240	248.438181	248.438181

4.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	288.659794	288.659794
128	269.581056	269.581056
256	259.398496	259.398496
512	253.937947	253.937947
1518	250	250
2048	249.216679	249.216679
10240	248.438181	248.438181

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	0
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	7	7
RX	7	7

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	155	155
128	150	150
256	148	148
512	146	146
1518	49	49
2048	37	37
10240	7	7

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	155	155
128	150	150
256	148	148
512	146	146
1518	49	49
2048	37	37
10240	7	7

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	155	155
128	150	150
256	148	148
512	146	146
1518	49	49
2048	37	37
10240	7	7

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	155	155
128	150	150
256	148	148
512	146	146
1518	49	49
2048	37	37
10240	7	7

4.4. Frame Loss

4.4.1. Configuration

Item	Value
Test Time (MM:SS)	00:10
Test Granularity (%)	10
Nb. of Trials to Average	1
Maximum Rate P1-to-P2 (%)	24
Maximum Rate P2-to-P1 (%)	24
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	17056	17056
RX	17056	17056

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

Frame Size	P1-to-P2 - Step 24% (% Loss)	P2-to-P1 - Step 24% (% 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 24% (% Loss)	P2-to-P1 - Step 24% (% 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 24% (% Loss)	P2-to-P1 - Step 24% (% 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 24% (% Loss)	P2-to-P1 - Step 24% (% 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)	00:05	00:05
Nb. of Trials to Average	1	1
Maximum Rate - Frame Size 64	23	23
Maximum Rate - Frame Size 128	23	23
Maximum Rate - Frame Size 256	23	23
Maximum Rate - Frame Size 512	23	23
Maximum Rate - Frame Size 1518	23	23
Maximum Rate - Frame Size 2048	23	23
Maximum Rate - Frame Size 10240	23	23
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	14011	14011
RX	14011	14011

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	23.0	0.152315	23.0	0.15185099999999999
128	23.0	0.155298	23.0	0.155607
256	23.0	0.161574	23.0	0.161574
512	23.0	0.173405	23.0	0.17330199999999998
1518	23.0	0.22289	23.0	0.221862
2048	23.0	0.24722200000000003	23.0	0.246604
10240	23.0	0.641717	23.0	0.643158

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	23.0	0.152315	23.0	0.15185099999999999
128	23.0	0.155298	23.0	0.155607
256	23.0	0.161574	23.0	0.161574
512	23.0	0.173405	23.0	0.17330199999999998
1518	23.0	0.22289	23.0	0.221862
2048	23.0	0.24722200000000003	23.0	0.246604
10240	23.0	0.641717	23.0	0.643158

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	23.0	0.152315	23.0	0.15185099999999999
128	23.0	0.155298	23.0	0.155607
256	23.0	0.161574	23.0	0.161574
512	23.0	0.173405	23.0	0.17330199999999998
1518	23.0	0.22289	23.0	0.221862
2048	23.0	0.24722200000000003	23.0	0.246604
10240	23.0	0.641717	23.0	0.643158

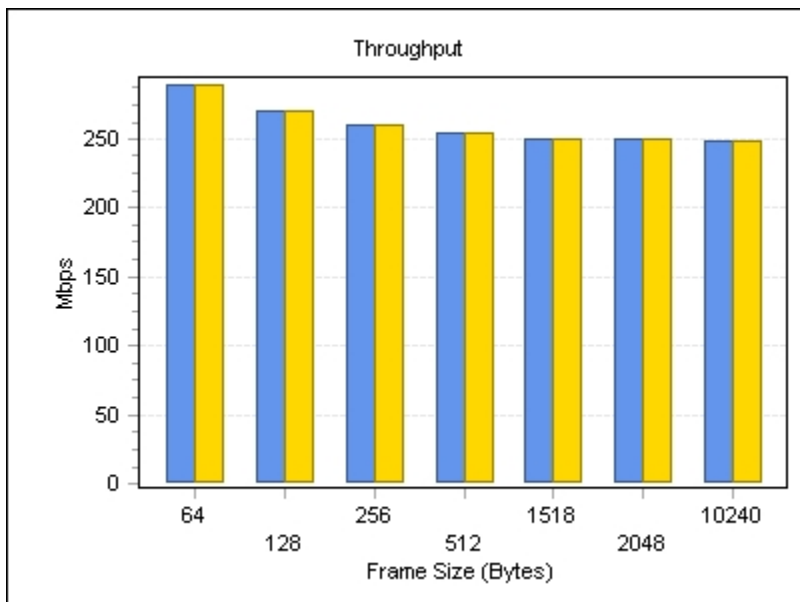
4.5.2.2.4. Average

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	23.0	0.152315	23.0	0.15185099999999999
128	23.0	0.155298	23.0	0.155607
256	23.0	0.161574	23.0	0.161574
512	23.0	0.173405	23.0	0.17330199999999998
1518	23.0	0.22289	23.0	0.221862
2048	23.0	0.24722200000000003	23.0	0.246604
10240	23.0	0.641717	23.0	0.643158

4.6. Graph

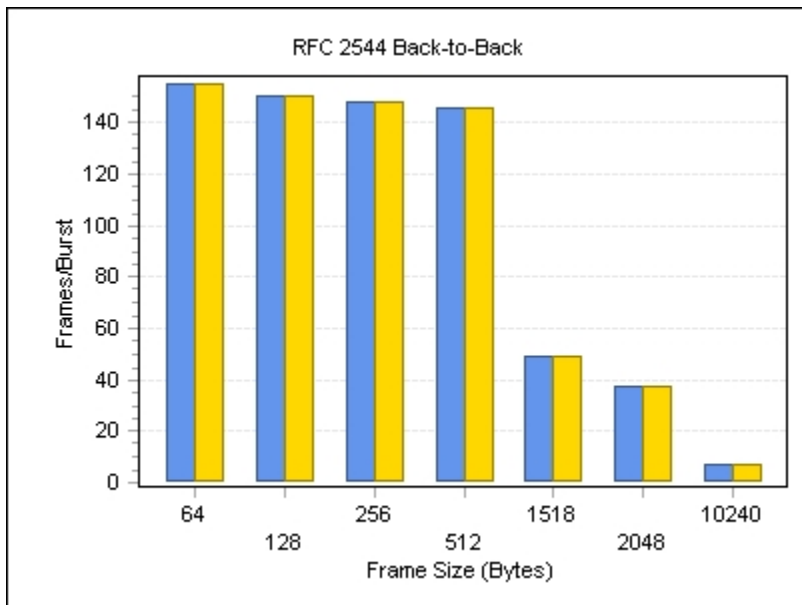
4.6.1. Throughput

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



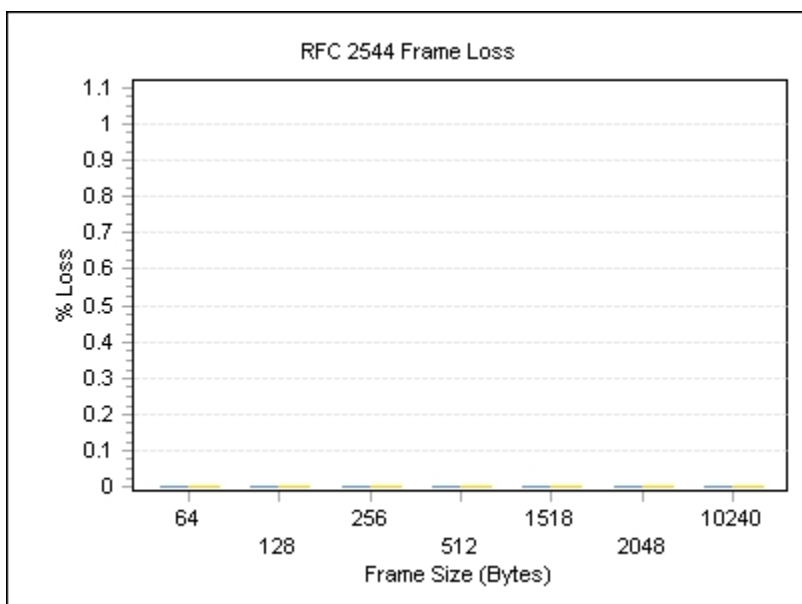
4.6.2. RFC 2544 Back-to-Back

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	24%



4.6.4. RFC 2544 Latency

Displayed Results	Current
Direction	Bidirectional
Unit	μs
Mode	Cut Through

