



Packet Blazer

Job Information

Job ID	1
Contractor	ALCOMA
Customer	
Report Date	2014-04-28 14:03:54
Operator Name	LANVI

File Name: D:\New Folder\Test_RFC2544_spoje_MP400-500Eth-1024QAM-56MHz-ACAP.pdf

Comment: MP400-500Eth-1024QAM-56MHz-ACAP

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)	-9	-10

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	2014-04-28 12:52:07	Test 1	Test Started			
2	2014-04-28 13:34:32	Test 1	Test Stopped			

1.2. Test

1.2.1. Test Status

Item	Value
Start Time:	2014-04-28 12:52:07
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)	1000000008
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)	-9
Max. Negative Offset (ppm)	-9
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	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)	-10
Max. Negative Offset (ppm)	-10
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)	00:01
Accuracy (%)	0.1
Nb. of Acceptable Errors	0
Nb. of Trials to Average	1
Nb. of Validations	1
Maximum Rate P1-to-P2 (%)	90
Maximum Rate P2-to-P1 (%)	90
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	6056	6056
RX	6056	6056

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	575.342466	575.342466
128	538.181818	538.181818
256	518.796992	518.796992
512	507.633588	507.633588
1518	500	500
2048	499.275712	499.275712
10240	497.117108	497.117108

4.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	575.342466	575.342466
128	538.181818	538.181818
256	518.796992	518.796992
512	507.633588	507.633588
1518	500	500
2048	499.275712	499.275712
10240	497.117108	497.117108

4.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	575.342466	575.342466
128	538.181818	538.181818
256	518.796992	518.796992
512	507.633588	507.633588
1518	500	500
2048	499.275712	499.275712
10240	497.117108	497.117108

4.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	575.342466	575.342466
128	538.181818	538.181818
256	518.796992	518.796992
512	507.633588	507.633588
1518	500	500
2048	499.275712	499.275712
10240	497.117108	497.117108

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	11	11
RX	11	11

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	264	264
128	241	241
256	229	229
512	223	223
1518	73	73
2048	55	55
10240	11	11

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	264	264
128	241	241
256	229	229
512	223	223
1518	73	73
2048	55	55
10240	11	11

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	264	264
128	241	241
256	229	229
512	223	223
1518	73	73
2048	55	55
10240	11	11

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	264	264
128	241	241
256	229	229
512	223	223
1518	73	73
2048	55	55
10240	11	11

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 (%)	45
Maximum Rate P2-to-P1 (%)	45
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	42642	42642
RX	42642	42642

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

Frame Size	P1-to-P2 - Step 45% (% Loss)	P2-to-P1 - Step 45% (% 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 45% (% Loss)	P2-to-P1 - Step 45% (% 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 45% (% Loss)	P2-to-P1 - Step 45% (% 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 45% (% Loss)	P2-to-P1 - Step 45% (% 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	45	45
Maximum Rate - Frame Size 128	45	45
Maximum Rate - Frame Size 256	45	45
Maximum Rate - Frame Size 512	45	45
Maximum Rate - Frame Size 1518	45	45
Maximum Rate - Frame Size 2048	45	45
Maximum Rate - Frame Size 10240	45	45
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	27412	27412
RX	27412	27412

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	45.0	0.081893	45.0	0.08143
128	45.0	0.083951	45.0	0.08328200000000009
256	45.0	0.087396	45.0	0.087089
512	45.0	0.09537000000000001	45.0	0.095421999999999993
1518	45.0	0.12793200000000002	45.0	0.128497
2048	45.0	0.145113	45.0	0.145319
10240	45.0	0.408333	45.0	0.409001

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	45.0	0.081893	45.0	0.08143
128	45.0	0.083951	45.0	0.08328200000000009
256	45.0	0.087396	45.0	0.087089
512	45.0	0.09537000000000001	45.0	0.095421999999999993
1518	45.0	0.12793200000000002	45.0	0.128497
2048	45.0	0.145113	45.0	0.145319
10240	45.0	0.408333	45.0	0.409001

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	45.0	0.081893	45.0	0.08143
128	45.0	0.083951	45.0	0.08328200000000009
256	45.0	0.087396	45.0	0.087089
512	45.0	0.09537000000000001	45.0	0.095421999999999993
1518	45.0	0.12793200000000002	45.0	0.128497
2048	45.0	0.145113	45.0	0.145319
10240	45.0	0.408333	45.0	0.409001

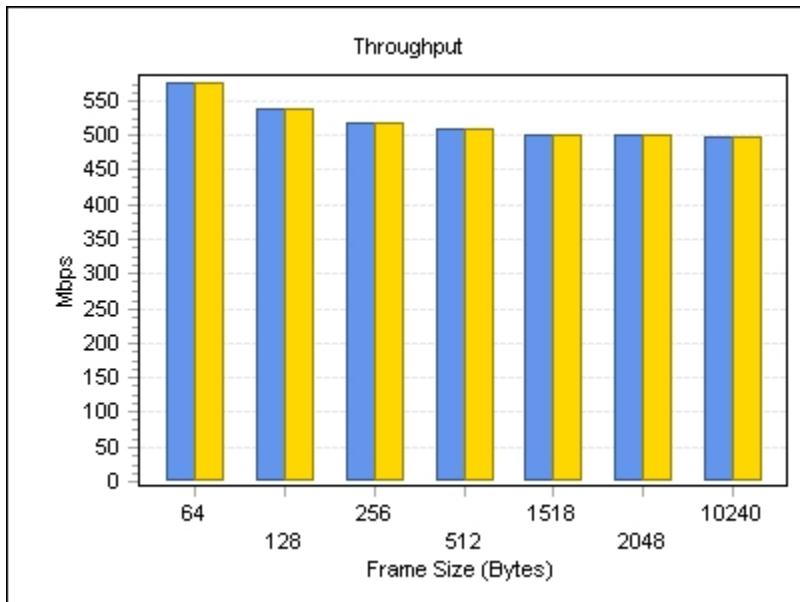
4.5.2.2.4. Average

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (ms)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (ms)
64	45.0	0.081893	45.0	0.08143
128	45.0	0.083951	45.0	0.083282000000000009
256	45.0	0.087396	45.0	0.087089
512	45.0	0.095370000000000001	45.0	0.095421999999999993
1518	45.0	0.127932000000000002	45.0	0.128497
2048	45.0	0.145113	45.0	0.145319
10240	45.0	0.408333	45.0	0.409001

4.6. Graph

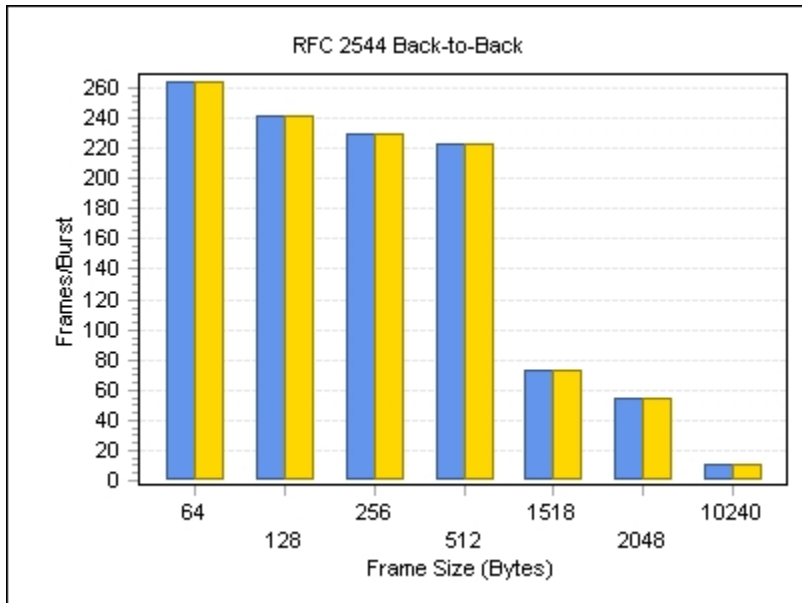
4.6.1. Throughput

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



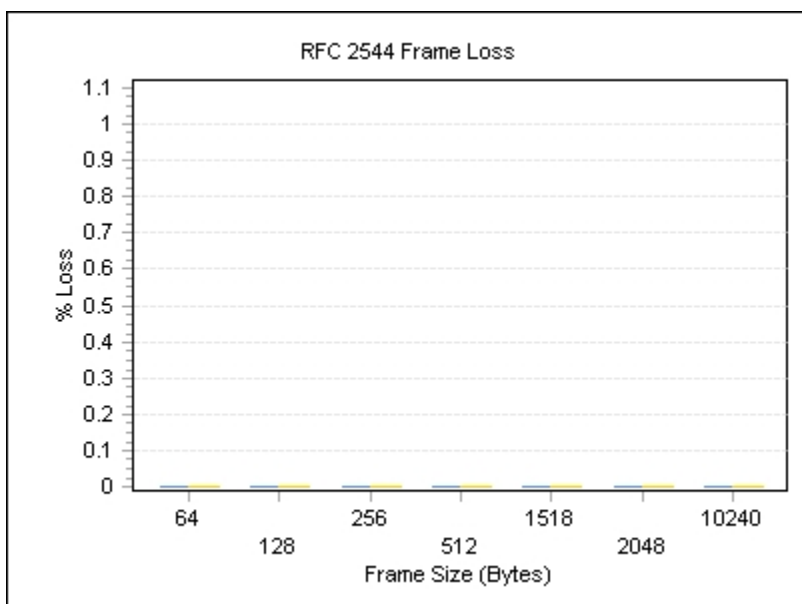
4.6.2. RFC 2544 Back-to-Back

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	45%



4.6.4. RFC 2544 Latency

Displayed Results	Current
Direction	Bidirectional
Unit	μ s
Mode	Cut Through

