



Packet Blazer

Job Information

Job ID	1
Contractor	ALCOMA
Customer	
Report Date	2011-09-23 15:56:51
Operator Name	LANVI

File Name: D:\ALxxF-240Eth-256QAM.pdf

Comment: ALCOMA AL..F - Datarate=240Eth, M=256QAM, BW=40MHz

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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)	0	0

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	2011-09-23 14:29:21	Test 1	Test Started			
2	2011-09-23 15:21:00	Test 1	Test Stopped			

1.2. Test**1.2.1. Test Status**

Item	Value
Start Time:	2011-09-23 14:29:21
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)	0
Max. Negative Offset (ppm)	0
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	00:03:01:08:53:29

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	Local

2.6.2. Link Partner Capabilities

Item	Value
10Base-T, Half Duplex	False
10Base-T, Full Duplex	True
100Base-TX, Half Duplex	False
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	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)	0
Max. Negative Offset (ppm)	0
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	00:03:01:08:53:2A

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	Local

3.6.2. Link Partner Capabilities

Item	Value
10Base-T, Half Duplex	False
10Base-T, Full Duplex	True
100Base-TX, Half Duplex	False
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	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	4000
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	10
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	22497	22497
RX	22497	22497

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	314.606742	314.606742
128	277.153558	277.153558
256	258.669166	258.669166
512	248.947122	248.947122
1518	243.277444	243.277444
2048	241.871345	241.871345
4000	241.166237	241.166237

4.2.2.2. Minimum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	314.606742	314.606742
128	277.153558	277.153558
256	258.669166	258.669166
512	248.947122	248.947122
1518	243.277444	243.277444
2048	241.871345	241.871345
4000	241.166237	241.166237

4.2.2.3. Maximum

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	314.606742	314.606742
128	277.153558	277.153558
256	258.669166	258.669166
512	248.947122	248.947122
1518	243.277444	243.277444
2048	241.871345	241.871345
4000	241.166237	241.166237

4.2.2.4. Average

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	314.606742	314.606742
128	277.153558	277.153558
256	258.669166	258.669166
512	248.947122	248.947122
1518	243.277444	243.277444
2048	241.871345	241.871345
4000	241.166237	241.166237

4.3. Back-to-Back

4.3.1. Configuration

Item	Value
Max. Time Worth of Frames (MM:SS)	00:03
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	24	24
RX	24	24

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	459	459
128	393	393
256	364	364
512	181	181
1518	60	60
2048	45	45
4000	24	24

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	459	459
128	393	393
256	364	364
512	181	181
1518	60	60
2048	45	45
4000	24	24

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	459	459
128	393	393
256	364	364
512	181	181
1518	60	60
2048	45	45
4000	24	24

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	459	459
128	393	393
256	364	364
512	181	181
1518	60	60
2048	45	45
4000	24	24

4.4. Frame Loss

4.4.1. Configuration

Item	Value
Test Time (MM:SS)	01:00
Test Granularity (%)	10
Nb. of Trials to Average	1
Maximum Rate P1-to-P2 (%)	23
Maximum Rate P2-to-P1 (%)	23
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	242538	242538
RX	242538	242538

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

Frame Size	P1-to-P2 - Step 23% (% Loss)	P2-to-P1 - Step 23% (% 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
4000	0.0	0.0

4.4.2.2.2. Minimum

Frame Size	P1-to-P2 - Step 23% (% Loss)	P2-to-P1 - Step 23% (% 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
4000	0.0	0.0

4.4.2.2.3. Maximum

Frame Size	P1-to-P2 - Step 23% (% Loss)	P2-to-P1 - Step 23% (% 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
4000	0.0	0.0

4.4.2.2.4. Average

Frame Size	P1-to-P2 - Step 23% (% Loss)	P2-to-P1 - Step 23% (% 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
4000	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	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 4000	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	7152	7152
RX	7152	7152

4.5.2.2. Latency Results

4.5.2.2.1. Current

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (μ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (μ s)
64	23.0	176.852	23.0	176.852
128	23.0	180.452	23.0	180.401
256	23.0	187.654	23.0	187.602
512	23.0	201.954	23.0	201.954
1518	23.0	258.488	23.0	258.59
2048	23.0	288.16900000000004	23.0	288.323
4000	23.0	398.04499999999996	23.0	397.993

4.5.2.2.2. Minimum

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (μ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (μ s)
64	23.0	176.852	23.0	176.852
128	23.0	180.452	23.0	180.401
256	23.0	187.654	23.0	187.602
512	23.0	201.954	23.0	201.954
1518	23.0	258.488	23.0	258.59
2048	23.0	288.16900000000004	23.0	288.323
4000	23.0	398.04499999999996	23.0	397.993

4.5.2.2.3. Maximum

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (μ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (μ s)
64	23.0	176.852	23.0	176.852
128	23.0	180.452	23.0	180.401
256	23.0	187.654	23.0	187.602
512	23.0	201.954	23.0	201.954
1518	23.0	258.488	23.0	258.59
2048	23.0	288.16900000000004	23.0	288.323
4000	23.0	398.04499999999996	23.0	397.993

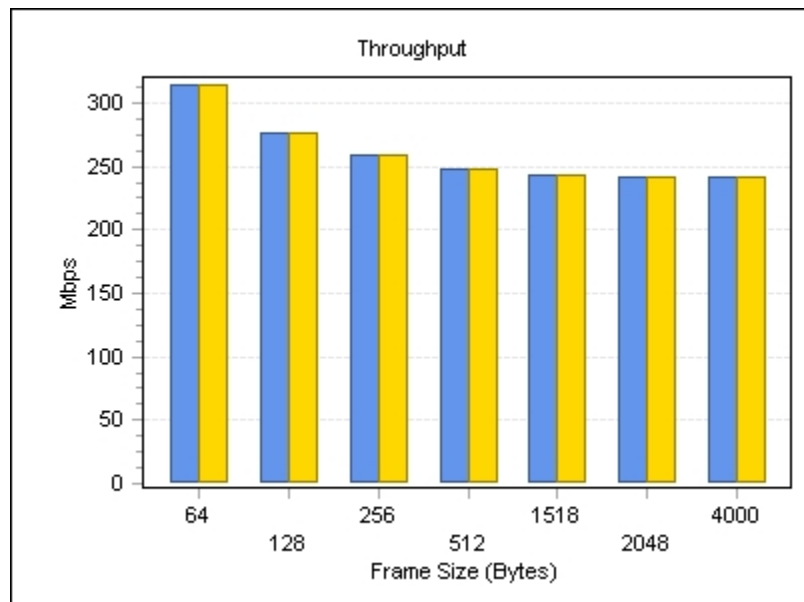
4.5.2.2.4. Average

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through (μ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through (μ s)
64	23.0	176.852	23.0	176.852
128	23.0	180.452	23.0	180.401
256	23.0	187.654	23.0	187.602
512	23.0	201.954	23.0	201.954
1518	23.0	258.488	23.0	258.59
2048	23.0	288.16900000000004	23.0	288.323
4000	23.0	398.04499999999996	23.0	397.993

4.6. Graph

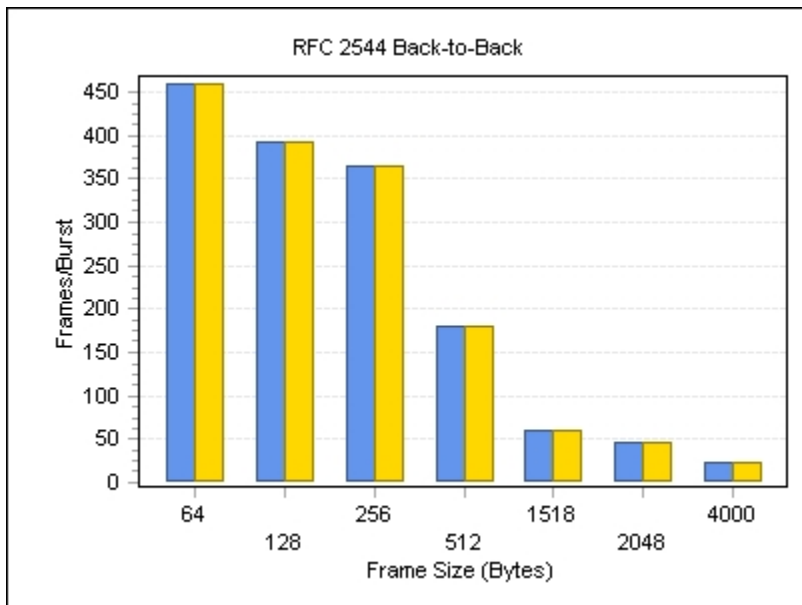
4.6.1. Throughput

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



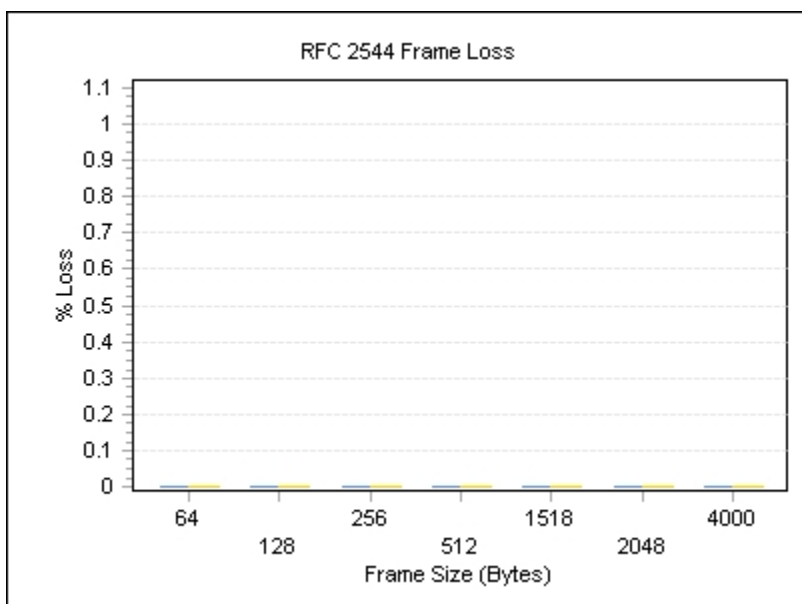
4.6.2. RFC 2544 Back-to-Back

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



4.6.3. RFC 2544 Frame Loss

Displayed Results	Average
Direction	Bidirectional
Unit	% Loss
Displayed Step	23%



4.6.4. RFC 2544 Latency

Displayed Results	Current
Direction	Bidirectional
Unit	μ s
Mode	Cut Through

