



## Packet Blazer

### Job Information

Job ID	1
Contractor	ALCOMA
Customer	
Report Date	2011-09-23 09:31:09
Operator Name	LANVI

File Name: D:\ALxxF-296Eth-128QAM.pdf

Comment: ALCOMA AL..F - Datarate=296Eth, M=128QAM, BW=56MHz

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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 08:35:50	Test 1	Test Started			
2	2011-09-23 09:26:37	Test 1	Test Stopped			

**1.2. Test****1.2.1. Test Status**

Item	Value
Start Time:	2011-09-23 08:35:50
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	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	27765	27765
RX	27765	27765

**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	387.096774	387.096774
128	341.801386	341.801386
256	318.706697	318.706697
512	306.982112	306.982112
1518	299.980495	299.980495
2048	298.455766	298.455766
4000	297.645491	297.645491

**4.2.2.2.2. Minimum**

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	387.096774	387.096774
128	341.801386	341.801386
256	318.706697	318.706697
512	306.982112	306.982112
1518	299.980495	299.980495
2048	298.455766	298.455766
4000	297.645491	297.645491

**4.2.2.2.3. Maximum**

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	387.096774	387.096774
128	341.801386	341.801386
256	318.706697	318.706697
512	306.982112	306.982112
1518	299.980495	299.980495
2048	298.455766	298.455766
4000	297.645491	297.645491

**4.2.2.2.4. Average**

Frame Size	P1-to-P2 - Layer 1-2-3 (Mbps)	P2-to-P1 - Layer 1-2-3 (Mbps)
64	387.096774	387.096774
128	341.801386	341.801386
256	318.706697	318.706697
512	306.982112	306.982112
1518	299.980495	299.980495
2048	298.455766	298.455766
4000	297.645491	297.645491

**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	27	27
RX	26	26

**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	514	514
128	433	433
256	394	394
512	197	197
1518	66	66
2048	49	49
4000	26	26

**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	514	514
128	433	433
256	394	394
512	197	197
1518	66	66
2048	49	49
4000	26	26



**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	514	514
128	433	433
256	394	394
512	197	197
1518	66	66
2048	49	49
4000	26	26

**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	514	514
128	433	433
256	394	394
512	197	197
1518	66	66
2048	49	49
4000	26	26

**4.4. Frame Loss****4.4.1. Configuration**

Item	Value
Test Time (MM:SS)	01:00
Test Granularity (%)	1
Nb. of Trials to Average	1
Maximum Rate P1-to-P2 (%)	29
Maximum Rate P2-to-P1 (%)	29
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	522393	522393
RX	522393	522393

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

Frame Size	P1-to-P2 - Step 29.000000000000004% (% Loss)	P2-to-P1 - Step 29.000000000000004% (% 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 29.000000000000004% (% Loss)	P2-to-P1 - Step 29.000000000000004% (% 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 29.000000000000004% (% Loss)	P2-to-P1 - Step 29.000000000000004% (% 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 29.000000000000004% (% Loss)	P2-to-P1 - Step 29.000000000000004% (% 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	29	29
Maximum Rate - Frame Size 128	29	29
Maximum Rate - Frame Size 256	29	29
Maximum Rate - Frame Size 512	29	29
Maximum Rate - Frame Size 1518	29	29
Maximum Rate - Frame Size 2048	29	29
Maximum Rate - Frame Size 4000	29	29
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	9017	9017
RX	9017	9017

**4.5.2.2. Latency Results**

**4.5.2.2.1. Current**

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through ( $\mu$ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through ( $\mu$ s)
64	29.0	140.741	29.0	140.586
128	29.0	143.673	29.0	143.724
256	29.0	150.20600000000002	29.0	150.20499999999998
512	29.0	163.169	29.0	163.014
1518	29.0	213.42600000000002	29.0	213.374
2048	29.0	240.072	29.0	239.866
4000	29.0	337.757	29.0	337.757

**4.5.2.2.2. Minimum**

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through ( $\mu$ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through ( $\mu$ s)
64	29.0	140.741	29.0	140.586
128	29.0	143.673	29.0	143.724
256	29.0	150.20600000000002	29.0	150.20499999999998
512	29.0	163.169	29.0	163.014
1518	29.0	213.42600000000002	29.0	213.374
2048	29.0	240.072	29.0	239.866
4000	29.0	337.757	29.0	337.757

**4.5.2.2.3. Maximum**

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through ( $\mu$ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through ( $\mu$ s)
64	29.0	140.741	29.0	140.586
128	29.0	143.673	29.0	143.724
256	29.0	150.20600000000002	29.0	150.20499999999998
512	29.0	163.169	29.0	163.014
1518	29.0	213.42600000000002	29.0	213.374
2048	29.0	240.072	29.0	239.866
4000	29.0	337.757	29.0	337.757

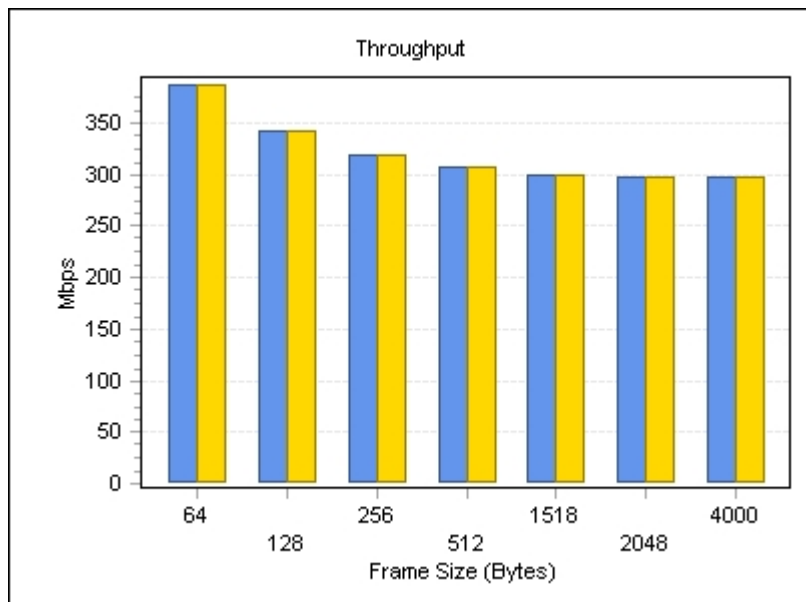
**4.5.2.2.4. Average**

Frame Size	P1-to-P2 Rate (%)	P1-to-P2 - Cut Through ( $\mu$ s)	P2-to-P1 Rate (%)	P2-to-P1 - Cut Through ( $\mu$ s)
64	29.0	140.741	29.0	140.586
128	29.0	143.673	29.0	143.724
256	29.0	150.20600000000002	29.0	150.20499999999998
512	29.0	163.169	29.0	163.014
1518	29.0	213.42600000000002	29.0	213.374
2048	29.0	240.072	29.0	239.866
4000	29.0	337.757	29.0	337.757

**4.6. Graph**

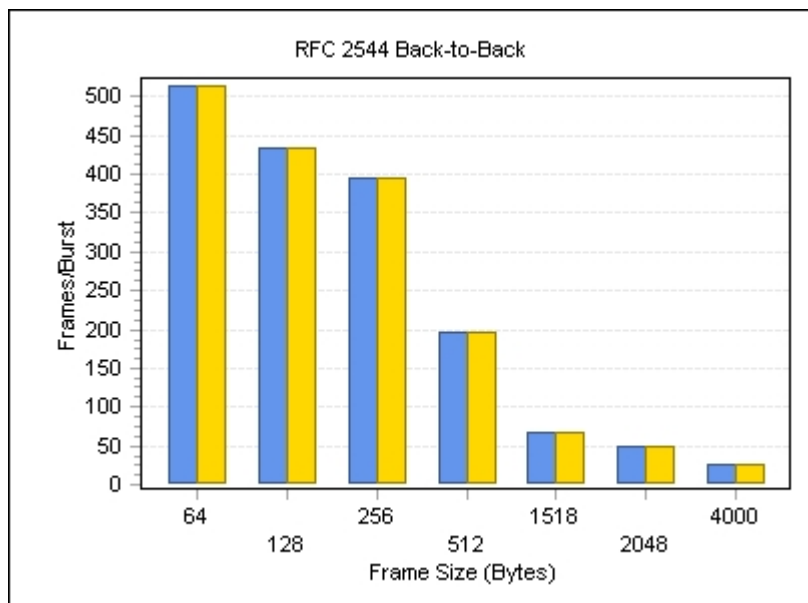
**4.6.1. Throughput**

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



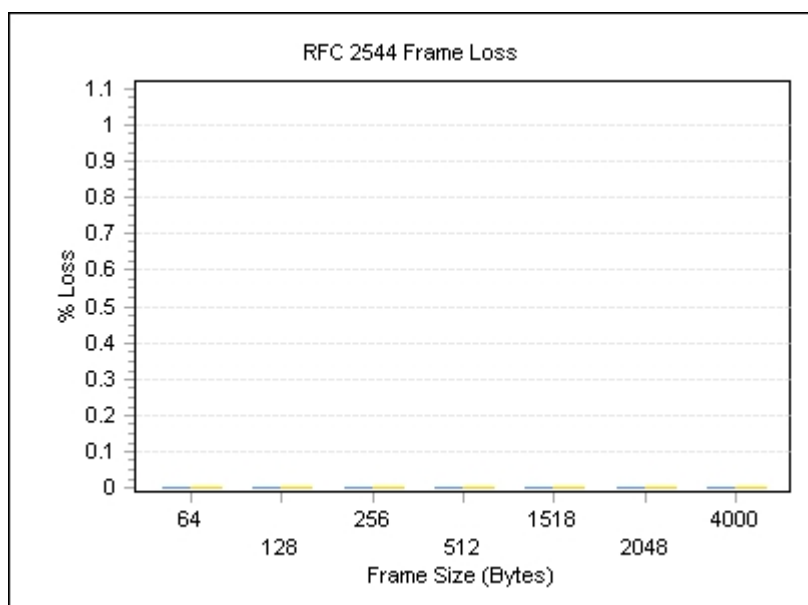
**4.6.2. RFC 2544 Back-to-Back**

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	29.000000000000004%



#### 4.6.4. RFC 2544 Latency

Displayed Results	Current
Direction	Bidirectional
Unit	$\mu$ s
Mode	Cut Through

