



Packet Blazer

Job Information

| | |
|---------------|---------------------|
| Job ID | 1 |
| Contractor | ALCOMA |
| Customer | |
| Report Date | 2011-09-26 17:56:42 |
| Operator Name | LANVI |

File Name: D:\ALxxF-736Eth-256QAM-56MHz.pdf

Comment: ALCOMA AL..F - Datarate=2x368Eth, M=256QAM, BW=56MHz (Free Bands)

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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 | 2011-09-26 16:51:02 | Test 1 | Test Started | | | |
| 2 | 2011-09-26 17:51:03 | Test 1 | Test Stopped | | | |

1.2. Test

1.2.1. Test Status

| Item | Value |
|---------------------|---------------------|
| Start Time: | 2011-09-26 16:51:02 |
| 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. RFC 2544

2.1. Global

2.1.1. 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 |

2.1.2. Test Procedure

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

2.2. Throughput

2.2.1. 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 (%) | 100 |
| Maximum Rate P2-to-P1 (%) | 100 |
| Minimum Test Time (Seconds) | -- |

2.2.2. Results

| Item | Value |
|----------------|-----------|
| Test State | Completed |
| Status Message | None |

2.2.2.1. Frame Count

| | P1-to-P2 | P2-to-P1 |
|----|----------|----------|
| TX | 68871 | 68871 |
| RX | 68871 | 68871 |

2.2.2.2. Throughput Results**2.2.2.2.1. 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 | 850.574713 | 850.574713 |
| 256 | 793.103448 | 793.103448 |
| 512 | 764.367816 | 764.367816 |
| 1518 | 745.155039 | 745.155039 |
| 2048 | 743.083004 | 743.083004 |
| 4000 | 738.292011 | 738.292011 |

2.2.2.2. 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 | 850.574713 | 850.574713 |
| 256 | 793.103448 | 793.103448 |
| 512 | 764.367816 | 764.367816 |
| 1518 | 745.155039 | 745.155039 |
| 2048 | 743.083004 | 743.083004 |
| 4000 | 738.292011 | 738.292011 |

2.2.2.3. 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 | 850.574713 | 850.574713 |
| 256 | 793.103448 | 793.103448 |
| 512 | 764.367816 | 764.367816 |
| 1518 | 745.155039 | 745.155039 |
| 2048 | 743.083004 | 743.083004 |
| 4000 | 738.292011 | 738.292011 |

2.2.2.4. 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 | 850.574713 | 850.574713 |
| 256 | 793.103448 | 793.103448 |
| 512 | 764.367816 | 764.367816 |
| 1518 | 745.155039 | 745.155039 |
| 2048 | 743.083004 | 743.083004 |
| 4000 | 738.292011 | 738.292011 |

2.3. Back-to-Back

2.3.1. 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) | -- |

2.3.2. Results

| Item | Value |
|----------------|-----------|
| Test State | Completed |
| Status Message | None |

2.3.2.1. Frame Count

| | P1-to-P2 | P2-to-P1 |
|----|----------|----------|
| TX | 63 | 63 |
| RX | 62 | 62 |

2.3.2.2. Back-to-Back Results**2.3.2.2.1. Current**

| Frame Size | P1-to-P2 - Layer 1-2-3 (Frames/Burst) | P2-to-P1 - Layer 1-2-3 (Frames/Burst) |
|------------|---------------------------------------|---------------------------------------|
| 64 | 9029 | 9029 |
| 128 | 1908 | 1908 |
| 256 | 1305 | 1305 |
| 512 | 566 | 566 |
| 1518 | 174 | 174 |
| 2048 | 126 | 126 |
| 4000 | 62 | 62 |

2.3.2.2.2. Minimum

| Frame Size | P1-to-P2 - Layer 1-2-3 (Frames/Burst) | P2-to-P1 - Layer 1-2-3 (Frames/Burst) |
|------------|---------------------------------------|---------------------------------------|
| 64 | 9029 | 9029 |
| 128 | 1908 | 1908 |
| 256 | 1305 | 1305 |
| 512 | 566 | 566 |
| 1518 | 174 | 174 |
| 2048 | 126 | 126 |
| 4000 | 62 | 62 |

2.3.2.2.3. Maximum

| Frame Size | P1-to-P2 - Layer 1-2-3 (Frames/Burst) | P2-to-P1 - Layer 1-2-3 (Frames/Burst) |
|------------|---------------------------------------|---------------------------------------|
| 64 | 9029 | 9029 |
| 128 | 1908 | 1908 |
| 256 | 1305 | 1305 |
| 512 | 566 | 566 |
| 1518 | 174 | 174 |
| 2048 | 126 | 126 |
| 4000 | 62 | 62 |

2.3.2.2.4. Average

| Frame Size | P1-to-P2 - Layer 1-2-3 (Frames/Burst) | P2-to-P1 - Layer 1-2-3 (Frames/Burst) |
|------------|---------------------------------------|---------------------------------------|
| 64 | 9029 | 9029 |
| 128 | 1908 | 1908 |
| 256 | 1305 | 1305 |
| 512 | 566 | 566 |
| 1518 | 174 | 174 |
| 2048 | 126 | 126 |
| 4000 | 62 | 62 |

2.4. Frame Loss

2.4.1. Configuration

| Item | Value |
|-----------------------------|-------|
| Test Time (MM:SS) | 01:00 |
| Test Granularity (%) | 10 |
| Nb. of Trials to Average | 1 |
| Maximum Rate P1-to-P2 (%) | 70 |
| Maximum Rate P2-to-P1 (%) | 70 |
| Minimum Test Time (Seconds) | -- |

2.4.2. Results

| Item | Value |
|----------------|-----------|
| Test State | Completed |
| Status Message | None |

2.4.2.1. Frame Count

| | P1-to-P2 | P2-to-P1 |
|----|----------|----------|
| TX | 1119403 | 1119403 |
| RX | 1119403 | 1119403 |

2.4.2.2. Frame Loss Results**2.4.2.2.1. Current**

| Frame Size | P1-to-P2 - Step 70% (% Loss) | P2-to-P1 - Step 70% (% 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 |

2.4.2.2.2. Minimum

| Frame Size | P1-to-P2 - Step 70% (% Loss) | P2-to-P1 - Step 70% (% 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 |

2.4.2.2.3. Maximum

| Frame Size | P1-to-P2 - Step 70% (% Loss) | P2-to-P1 - Step 70% (% 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 |

2.4.2.2.4. Average

| Frame Size | P1-to-P2 - Step 70% (% Loss) | P2-to-P1 - Step 70% (% 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 |

2.5. Latency

2.5.1. 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 | 70 | 70 |
| Maximum Rate - Frame Size 128 | 70 | 70 |
| Maximum Rate - Frame Size 256 | 70 | 70 |
| Maximum Rate - Frame Size 512 | 70 | 70 |
| Maximum Rate - Frame Size 1518 | 70.0045516613564 | 70 |
| Maximum Rate - Frame Size 2048 | 70.0067704807041 | 70 |
| Maximum Rate - Frame Size 4000 | 69.9982587497823 | 70 |
| Unit | % | % |
| Minimum Test Time (Seconds) | -- | -- |
| Copy From Throughput Test | Disabled | Disabled |
| Margin (%) | N/A | N/A |

2.5.2. Results

| Item | Value |
|----------------|-----------|
| Test State | Completed |
| Status Message | None |

2.5.2.1. Frame Count

| | P1-to-P2 | P2-to-P1 |
|----|----------|----------|
| TX | 21766 | 21766 |
| RX | 21766 | 21766 |

2.5.2.2. Latency Results

2.5.2.2.1. 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 | 70.0 | 121.605 | 70.0 | 122.325 |
| 128 | 70.0 | 124.485 | 70.0 | 124.485 |
| 256 | 70.0 | 128.961 | 70.0 | 128.601 |
| 512 | 70.0 | 137.14000000000002 | 70.0 | 137.24200000000002 |
| 1518 | 70.0046 | 171.91299999999998 | 70.0 | 172.016 |
| 2048 | 70.0068 | 191.152 | 70.0 | 189.917 |
| 4000 | 69.9983 | 257.253 | 70.0 | 258.128 |

2.5.2.2.2. 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 | 70.0 | 121.605 | 70.0 | 122.325 |
| 128 | 70.0 | 124.485 | 70.0 | 124.485 |
| 256 | 70.0 | 128.961 | 70.0 | 128.601 |
| 512 | 70.0 | 137.14000000000002 | 70.0 | 137.24200000000002 |
| 1518 | 70.0046 | 171.91299999999998 | 70.0 | 172.016 |
| 2048 | 70.0068 | 191.152 | 70.0 | 189.917 |
| 4000 | 69.9983 | 257.253 | 70.0 | 258.128 |

2.5.2.2.3. 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 | 70.0 | 121.605 | 70.0 | 122.325 |
| 128 | 70.0 | 124.485 | 70.0 | 124.485 |
| 256 | 70.0 | 128.961 | 70.0 | 128.601 |
| 512 | 70.0 | 137.14000000000002 | 70.0 | 137.24200000000002 |
| 1518 | 70.0046 | 171.91299999999998 | 70.0 | 172.016 |
| 2048 | 70.0068 | 191.152 | 70.0 | 189.917 |
| 4000 | 69.9983 | 257.253 | 70.0 | 258.128 |

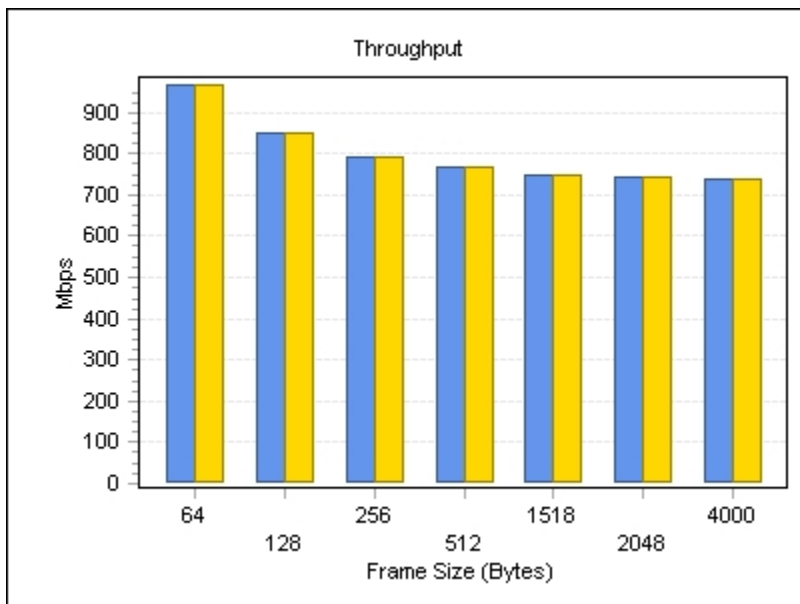
2.5.2.2.4. Average

| Frame Size | P1-to-P2 Rate (%) | P1-to-P2 - Cut Through (µs) | P2-to-P1 Rate (%) | P2-to-P1 - Cut Through (µs) |
|------------|-------------------|-----------------------------|-------------------|-----------------------------|
| 64 | 70.0 | 121.605 | 70.0 | 122.325 |
| 128 | 70.0 | 124.485 | 70.0 | 124.485 |
| 256 | 70.0 | 128.961 | 70.0 | 128.601 |
| 512 | 70.0 | 137.14000000000002 | 70.0 | 137.24200000000002 |
| 1518 | 70.0046 | 171.91299999999998 | 70.0 | 172.016 |
| 2048 | 70.0068 | 191.152 | 70.0 | 189.917 |
| 4000 | 69.9983 | 257.253 | 70.0 | 258.128 |

2.6. Graph

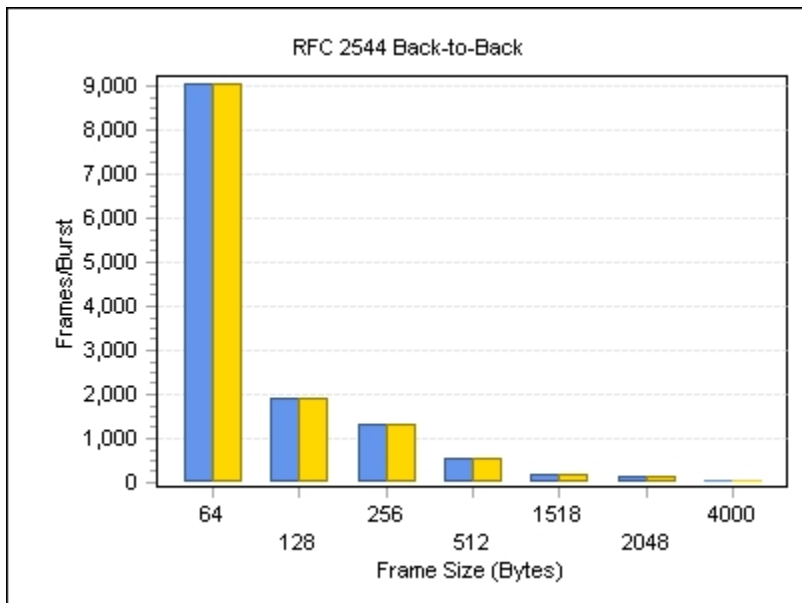
2.6.1. Throughput

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



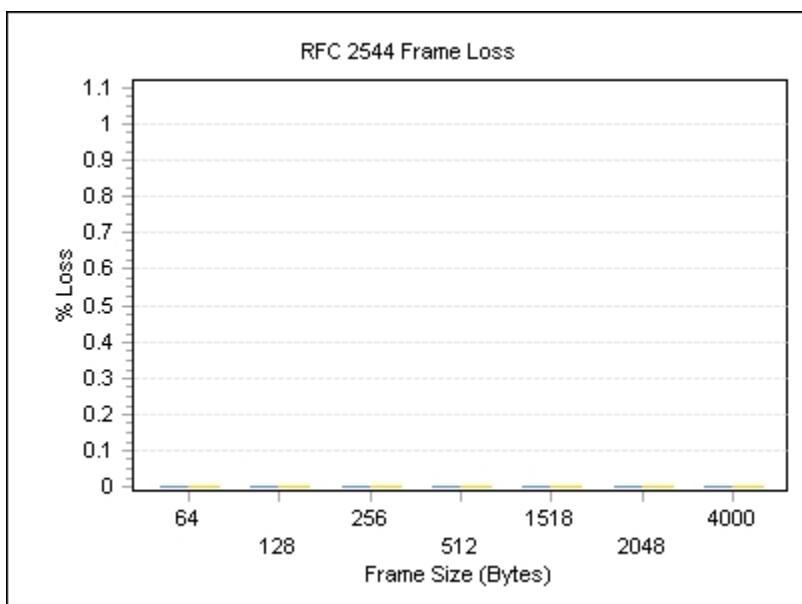
2.6.2. RFC 2544 Back-to-Back

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



2.6.3. RFC 2544 Frame Loss

| | |
|-------------------|---------------|
| Displayed Results | Current |
| Direction | Bidirectional |
| Unit | % Loss |
| Displayed Step | 70% |



2.6.4. RFC 2544 Latency

| | |
|-------------------|---------------|
| Displayed Results | Current |
| Direction | Bidirectional |
| Unit | μs |
| Mode | Cut Through |

