

# RFC 2544

## 1.Results

### - STATUS

| Status            | Value        |
|-------------------|--------------|
| Loop Up           | Test Disable |
| Throughput Test   | Done         |
| Latency Test      | Done         |
| Frame Loss Test   | Done         |
| Back-to-Back Test | Test Disable |
| Loop Down         | Test Disable |

### - EVENTS

| Time              | Events       | Test       |
|-------------------|--------------|------------|
| 4/8/2011 09:35:17 | Test Started | RFC2544    |
| 4/8/2011 09:35:17 | Test Started | Throughput |
| 4/8/2011 09:48:37 | Test Stopped | Throughput |
| 4/8/2011 09:48:37 | Test Started | Latency    |
| 4/8/2011 09:51:28 | Test Stopped | Latency    |
| 4/8/2011 09:51:28 | Test Started | Frame Loss |
| 4/8/2011 09:59:58 | Test Stopped | Frame Loss |
| 4/8/2011 09:59:58 | Test Stopped | RFC2544    |

### - THROUGHPUT TEST SUMMARY

| Frames     | Throughput (Mbps) | TX (%) | RX (%) | Status |
|------------|-------------------|--------|--------|--------|
| 64 bytes   | 754.29            | 99.000 | 98.958 | N/A    |
| 128 bytes  | 856.22            | 99.000 | 98.997 | N/A    |
| 256 bytes  | 918.26            | 99.000 | 98.986 | N/A    |
| 512 bytes  | 952.78            | 99.000 | 98.998 | N/A    |
| 1024 bytes | 971.03            | 99.000 | 98.997 | N/A    |
| 1280 bytes | 974.77            | 99.000 | 98.998 | N/A    |
| 1518 bytes | 977.13            | 99.000 | 98.997 | N/A    |

### - LATENCY TEST SUMMARY

| Frames     | Latency (us) | Rate (%) | Status |
|------------|--------------|----------|--------|
| 64 bytes   | 8.580        | 99.000   | N/A    |
| 128 bytes  | 10.580       | 99.000   | N/A    |
| 256 bytes  | 14.620       | 99.000   | N/A    |
| 512 bytes  | 22.720       | 99.000   | N/A    |
| 1024 bytes | 39.040       | 99.000   | N/A    |
| 1280 bytes | 47.220       | 99.000   | N/A    |
| 1518 bytes | 54.820       | 99.000   | N/A    |

### - JITTER TEST SUMMARY

| Frames     | Jitter (us) | Rate (%) | Status |
|------------|-------------|----------|--------|
| 64 bytes   | 0.006       | 99.000   | N/A    |
| 128 bytes  | 0.018       | 99.000   | N/A    |
| 256 bytes  | 0.028       | 99.000   | N/A    |
| 512 bytes  | 0.033       | 99.000   | N/A    |
| 1024 bytes | 0.010       | 99.000   | N/A    |
| 1280 bytes | 0.058       | 99.000   | N/A    |
| 1518 bytes | 0.015       | 99.000   | N/A    |

**- FRAME LOSS TEST SUMMARY**

| Frames     | Frame Loss (%) | Rate (%) |
|------------|----------------|----------|
| 64 bytes   | 0.000          | 90.000   |
| 64 bytes   | 0.125          | 100.000  |
| 128 bytes  | 0.000          | 90.000   |
| 128 bytes  | 0.125          | 100.000  |
| 256 bytes  | 0.000          | 90.000   |
| 256 bytes  | 0.126          | 100.000  |
| 512 bytes  | 0.000          | 90.000   |
| 512 bytes  | 0.126          | 100.000  |
| 1024 bytes | 0.000          | 90.000   |
| 1024 bytes | 0.126          | 100.000  |
| 1280 bytes | 0.000          | 90.000   |
| 1280 bytes | 0.126          | 100.000  |
| 1518 bytes | 0.000          | 90.000   |
| 1518 bytes | 0.126          | 100.000  |

**- THROUGHPUT TEST LOG**

| Frames     | TX (%)  | RX (%) | Status |
|------------|---------|--------|--------|
| 64 bytes   | 100.000 | 99.872 | Fail   |
| 64 bytes   | 50.000  | 50.000 | Pass   |
| 64 bytes   | 75.000  | 75.000 | Pass   |
| 64 bytes   | 87.000  | 86.986 | Pass   |
| 64 bytes   | 93.000  | 92.976 | Pass   |
| 64 bytes   | 96.000  | 96.009 | Pass   |
| 64 bytes   | 98.000  | 98.002 | Pass   |
| 64 bytes   | 99.000  | 98.958 | Pass   |
| 128 bytes  | 100.000 | 99.871 | Fail   |
| 128 bytes  | 50.000  | 50.000 | Pass   |
| 128 bytes  | 75.000  | 74.996 | Pass   |
| 128 bytes  | 87.000  | 86.994 | Pass   |
| 128 bytes  | 93.000  | 92.993 | Pass   |
| 128 bytes  | 96.000  | 95.986 | Pass   |
| 128 bytes  | 98.000  | 97.997 | Pass   |
| 128 bytes  | 99.000  | 98.997 | Pass   |
| 256 bytes  | 100.000 | 99.872 | Fail   |
| 256 bytes  | 50.000  | 50.000 | Pass   |
| 256 bytes  | 75.000  | 75.000 | Pass   |
| 256 bytes  | 87.000  | 86.997 | Pass   |
| 256 bytes  | 93.000  | 92.993 | Pass   |
| 256 bytes  | 96.000  | 95.998 | Pass   |
| 256 bytes  | 98.000  | 97.989 | Pass   |
| 256 bytes  | 99.000  | 98.986 | Pass   |
| 512 bytes  | 100.000 | 99.872 | Fail   |
| 512 bytes  | 50.000  | 50.000 | Pass   |
| 512 bytes  | 75.000  | 74.998 | Pass   |
| 512 bytes  | 87.000  | 86.998 | Pass   |
| 512 bytes  | 93.000  | 93.002 | Pass   |
| 512 bytes  | 96.000  | 95.996 | Pass   |
| 512 bytes  | 98.000  | 97.994 | Pass   |
| 512 bytes  | 99.000  | 98.998 | Pass   |
| 1024 bytes | 100.000 | 99.872 | Fail   |
| 1024 bytes | 50.000  | 50.000 | Pass   |

| Frames     | TX (%)  | RX (%) | Status |
|------------|---------|--------|--------|
| 1024 bytes | 75.000  | 75.000 | Pass   |
| 1024 bytes | 87.000  | 86.999 | Pass   |
| 1024 bytes | 93.000  | 92.998 | Pass   |
| 1024 bytes | 96.000  | 95.999 | Pass   |
| 1024 bytes | 98.000  | 97.999 | Pass   |
| 1024 bytes | 99.000  | 98.997 | Pass   |
| 1280 bytes | 100.000 | 99.871 | Fail   |
| 1280 bytes | 50.000  | 49.999 | Pass   |
| 1280 bytes | 75.000  | 75.000 | Pass   |
| 1280 bytes | 87.000  | 86.998 | Pass   |
| 1280 bytes | 93.000  | 92.997 | Pass   |
| 1280 bytes | 96.000  | 95.998 | Pass   |
| 1280 bytes | 98.000  | 97.999 | Pass   |
| 1280 bytes | 99.000  | 98.998 | Pass   |
| 1518 bytes | 100.000 | 99.872 | Fail   |
| 1518 bytes | 50.000  | 50.000 | Pass   |
| 1518 bytes | 75.000  | 74.999 | Pass   |
| 1518 bytes | 87.000  | 86.998 | Pass   |
| 1518 bytes | 93.000  | 92.997 | Pass   |
| 1518 bytes | 96.000  | 95.998 | Pass   |
| 1518 bytes | 98.000  | 97.998 | Pass   |
| 1518 bytes | 99.000  | 98.997 | Pass   |

- LATENCY TEST LOG

| Frames     | Latency (us) | Rate (%) | Status |
|------------|--------------|----------|--------|
| 64 bytes   | 8.580        | 99.000   | Pass   |
| 128 bytes  | 10.580       | 99.000   | Pass   |
| 256 bytes  | 14.620       | 99.000   | Pass   |
| 512 bytes  | 22.720       | 99.000   | Pass   |
| 1024 bytes | 39.040       | 99.000   | Pass   |
| 1280 bytes | 47.220       | 99.000   | Pass   |
| 1518 bytes | 54.820       | 99.000   | Pass   |

- JITTER TEST LOG

| Frames     | Jitter (us) | Rate (%) | Status |
|------------|-------------|----------|--------|
| 64 bytes   | 0.006       | 99.000   | Pass   |
| 128 bytes  | 0.018       | 99.000   | Pass   |
| 256 bytes  | 0.028       | 99.000   | Pass   |
| 512 bytes  | 0.033       | 99.000   | Pass   |
| 1024 bytes | 0.010       | 99.000   | Pass   |
| 1280 bytes | 0.058       | 99.000   | Pass   |
| 1518 bytes | 0.015       | 99.000   | Pass   |

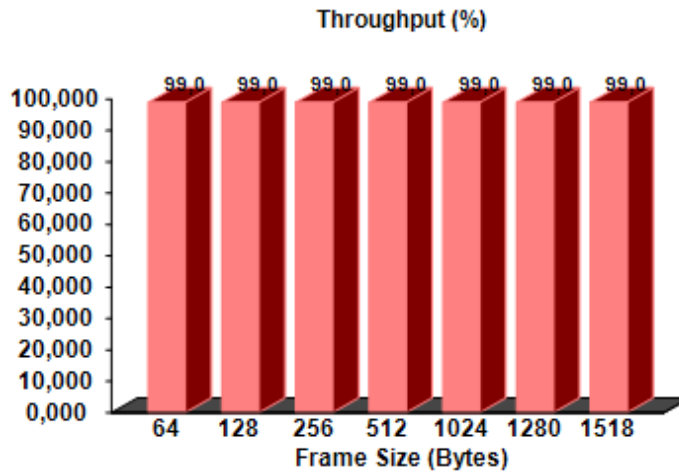
- FRAME LOSS TEST LOG

| Frames    | Frame Loss (%) | Rate (%) |
|-----------|----------------|----------|
| 64 bytes  | 0.125          | 100.000  |
| 64 bytes  | 0.000          | 90.000   |
| 64 bytes  | 0.000          | 80.000   |
| 128 bytes | 0.125          | 100.000  |
| 128 bytes | 0.000          | 90.000   |
| 128 bytes | 0.000          | 80.000   |
| 256 bytes | 0.126          | 100.000  |
| 256 bytes | 0.000          | 90.000   |

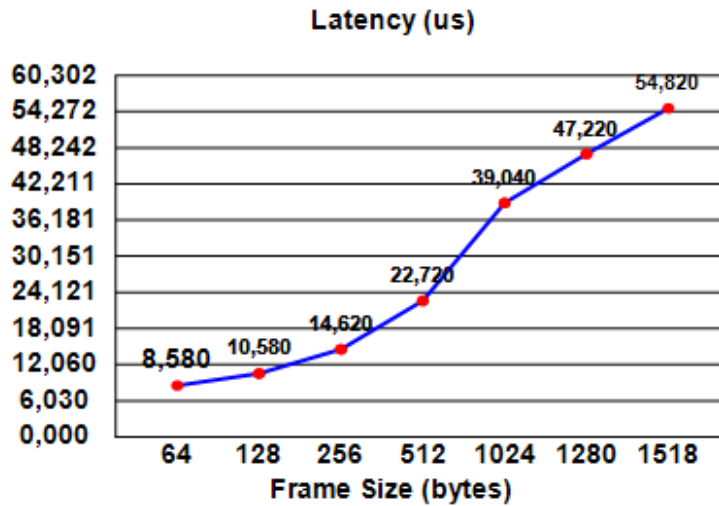
| <b>Frames</b> | <b>Frame Loss (%)</b> | <b>Rate (%)</b> |
|---------------|-----------------------|-----------------|
| 256 bytes     | 0.000                 | 80.000          |
| 512 bytes     | 0.126                 | 100.000         |
| 512 bytes     | 0.000                 | 90.000          |
| 512 bytes     | 0.000                 | 80.000          |
| 1024 bytes    | 0.126                 | 100.000         |
| 1024 bytes    | 0.000                 | 90.000          |
| 1024 bytes    | 0.000                 | 80.000          |
| 1280 bytes    | 0.126                 | 100.000         |
| 1280 bytes    | 0.000                 | 90.000          |
| 1280 bytes    | 0.000                 | 80.000          |
| 1518 bytes    | 0.126                 | 100.000         |
| 1518 bytes    | 0.000                 | 90.000          |
| 1518 bytes    | 0.000                 | 80.000          |

## 2.Graph

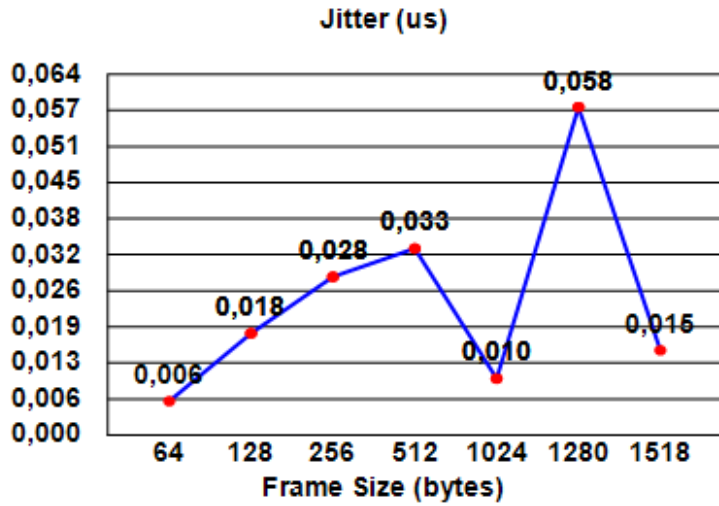
- THROUGHPUT (%)



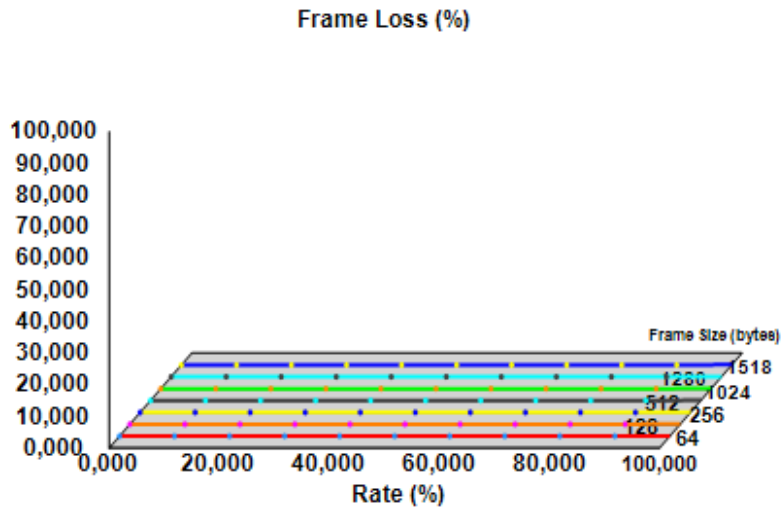
- LATENCY (us)



- JITTER (us)



- FRAME LOSS (%)



### 3.Setup

#### - GENERAL

| General    | Value             |
|------------|-------------------|
| Test       | Layer 2           |
| Frame Type | Ethernet II (DIX) |
| VLAN       | Off               |
| MPLS       | N/A               |

#### - HEADER

| Header          | Value             |
|-----------------|-------------------|
| MAC Source      | 00-18-63-00-33-22 |
| MAC Destination | 00-18-63-CC-BB-AA |
| Ethernet Type   | 0x0700            |

#### - FRAMES

| Frame Size | Value  |
|------------|--------|
| 64 bytes   | Enable |
| 128 bytes  | Enable |
| 256 bytes  | Enable |
| 512 bytes  | Enable |
| 1024 bytes | Enable |
| 1280 bytes | Enable |
| 1518 bytes | Enable |

#### - THRESHOLDS

| Frames     | Throughput % | Latency (ms) |
|------------|--------------|--------------|
| 64 bytes   | 70,000       | 1,000        |
| 128 bytes  | 75,000       | 2,000        |
| 256 bytes  | 80,000       | 3,000        |
| 512 bytes  | 85,000       | 4,000        |
| 1024 bytes | 90,000       | 5,000        |
| 1280 bytes | 95,000       | 6,000        |
| 1518 bytes | 100,000      | 7,000        |

#### - THROUGHPUT SETUP

| Throughput Setup | Value      |
|------------------|------------|
| Maximum Rate     | 100%       |
| Resolution       | 1%         |
| Duration         | 10 seconds |
| Enable Test      | Enable     |

#### - LATENCY SETUP

| Latency Setup | Value           |
|---------------|-----------------|
| Test          | Throughput Rate |
| Rate          | 100%            |
| Duration      | 20 seconds      |
| Repetitions   | 1               |
| Enable Test   | Enable          |

**- FRAME LOSS SETUP**

| <b>Frame Loss Setup</b> | <b>Value</b>      |
|-------------------------|-------------------|
| <b>Maximum Rate</b>     | <b>100%</b>       |
| <b>Step Size</b>        | <b>10%</b>        |
| <b>Duration</b>         | <b>20 seconds</b> |
| <b>Enable Test</b>      | <b>Enable</b>     |

**- BACK-TO-BACK SETUP**

| <b>Back-To-Back Setup</b> | <b>Value</b>      |
|---------------------------|-------------------|
| <b>Maximum Rate</b>       | <b>100%</b>       |
| <b>Minimum Duration</b>   | <b>2 seconds</b>  |
| <b>Maximum Duration</b>   | <b>20 seconds</b> |
| <b>Repetitions</b>        | <b>1</b>          |
| <b>Enable Test</b>        | <b>Disable</b>    |

**- PORT**

| <b>General</b>      | <b>Value</b>        |
|---------------------|---------------------|
| <b>Port</b>         | <b>10/100/1000T</b> |
| <b>Auto Neg</b>     | <b>On</b>           |
| <b>Speed</b>        | <b>1000</b>         |
| <b>Duplex</b>       | <b>Full</b>         |
| <b>Flow Control</b> | <b>Off</b>          |