

Generated by JDSU 5800 MSAM



Enhanced RFC 2544 Test

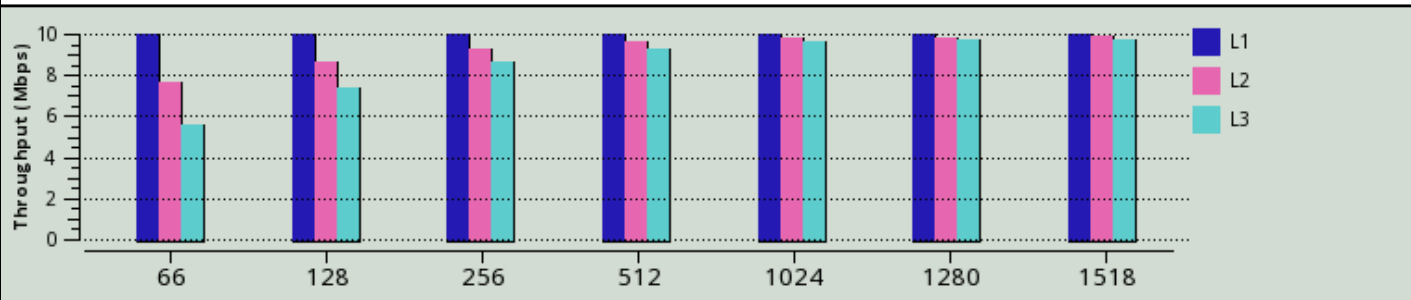
Overall Test Result: Pass

	<table style="width: 100%;"> <tr> <td style="padding: 5px;">Throughput</td> <td style="text-align: center; padding: 5px;">✓ </td> </tr> <tr> <td style="padding: 5px;">Latency</td> <td style="text-align: center; padding: 5px;">✓ </td> </tr> <tr> <td style="padding: 5px;">Packet Jitter</td> <td style="text-align: center; padding: 5px;">✓ </td> </tr> <tr> <td style="padding: 5px;">Frame Loss</td> <td style="text-align: center; padding: 5px;">✓ </td> </tr> <tr> <td style="padding: 5px;">Back to Back</td> <td style="text-align: center; padding: 5px;">✓ </td> </tr> </table>	Throughput	✓	Latency	✓	Packet Jitter	✓	Frame Loss	✓	Back to Back	✓	
Throughput	✓											
Latency	✓											
Packet Jitter	✓											
Frame Loss	✓											
Back to Back	✓											

Mode	Symmetric Loopback
Tests to Run	Throughput, Latency, Packet Jitter, Frame Loss, Back to Back
Customer Name	Times Microwave
Technician ID	GrayStone
Test Location	Dayton NV
Work Order	GI-001
Comments/Notes	LP-PAE
Instrument	T-BERD5800 BERT UME1
Serial Number	WMDB0084520017

SW Version	5.6
Start Date	3/16/2015
End Date	3/16/2015
Start Time	1:13:56 AM
End Time	4:44:53 AM

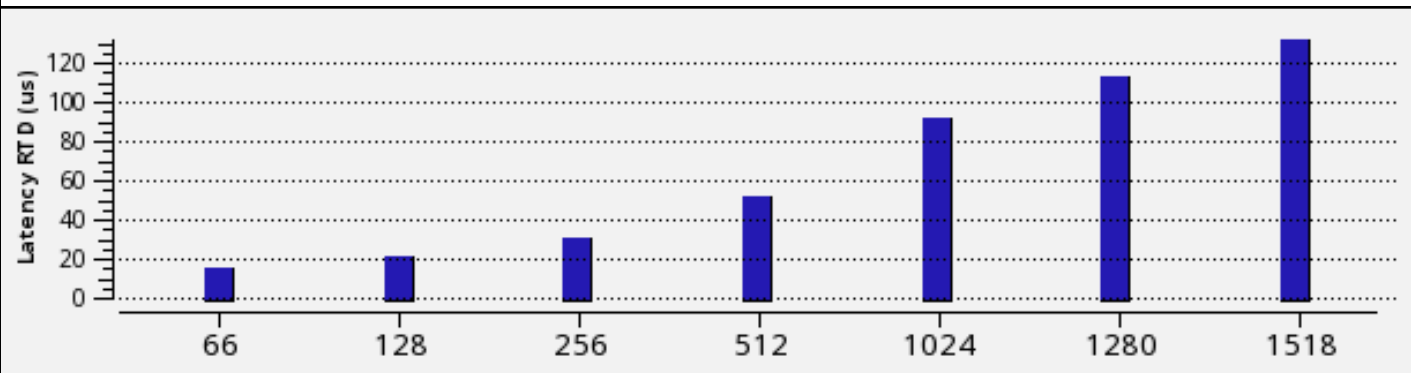
Enhanced RFC 2544: Throughput Test Graph



Enhanced RFC 2544: Throughput Test Results

<i>Pass/Fail</i>	<i>Frame Length (Bytes)</i>	<i>Measured L1 Rate (Mbps)</i>	<i>Measured L2 Rate (Mbps)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
Pass	66	10.000	7.674	14,535	No	10.000
Pass	128	10.000	8.649	8,446	No	10.000
Pass	256	10.000	9.275	4,529	No	10.000
Pass	512	10.002	9.626	2,350	No	10.000
Pass	1024	10.006	9.814	1,198	No	10.000
Pass	1280	10.005	9.851	962	No	10.000
Pass	1518	10.003	9.873	813	No	10.000

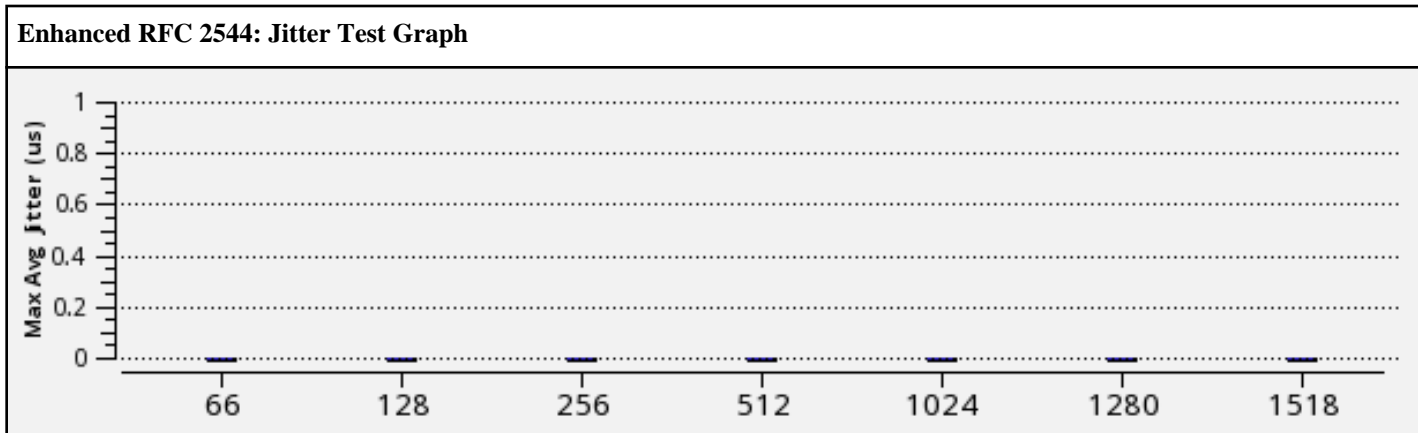
Enhanced RFC 2544: Latency Test Graph



Enhanced RFC 2544: Latency Test Results

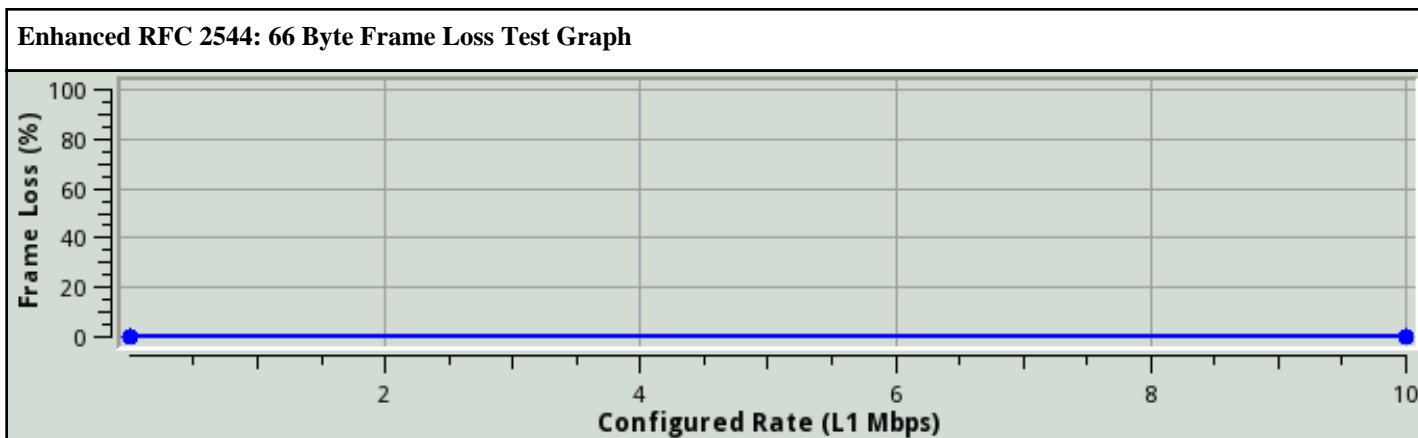
<i>Pass/Fail</i>	<i>Frame Length (Bytes)</i>	<i>Latency RTD (us)</i>	<i>Measured L1 Rate (Mbps)</i>	<i>Measured L1 (% Line Rate)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>
Pass	66	15.55	10.000	10.000	14,535	No
Pass	128	20.82	10.000	10.000	8,446	No
Pass	256	31.00	10.000	10.000	4,529	No

Pass	512	51.49	10.002	10.002	2,350	No
Pass	1024	92.48	10.006	10.006	1,198	No
Pass	1280	112.98	10.005	10.005	962	No
Pass	1518	131.97	10.003	10.003	813	No

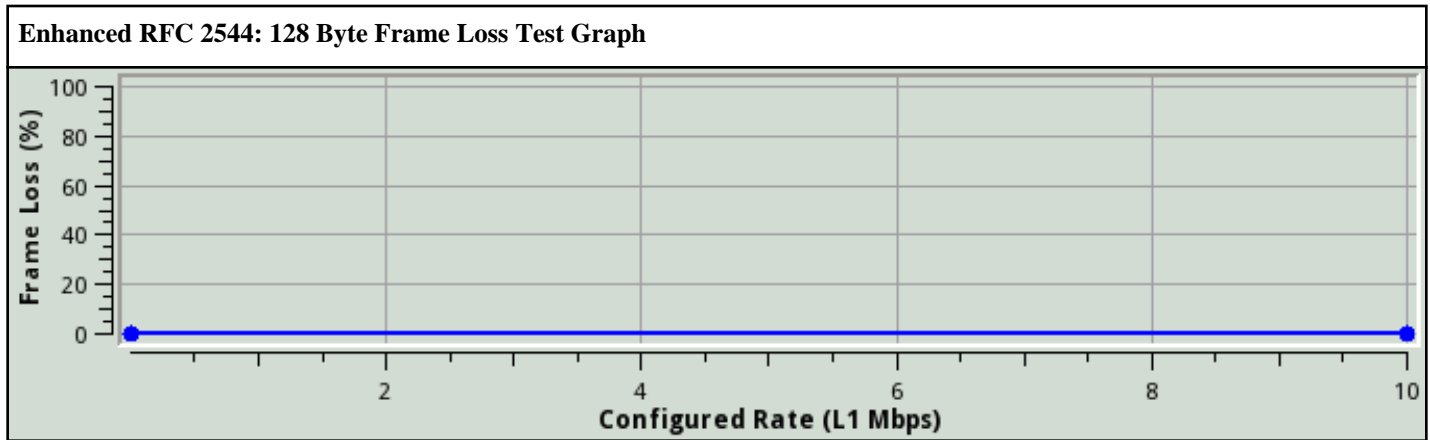


Enhanced RFC 2544: Jitter Test Results

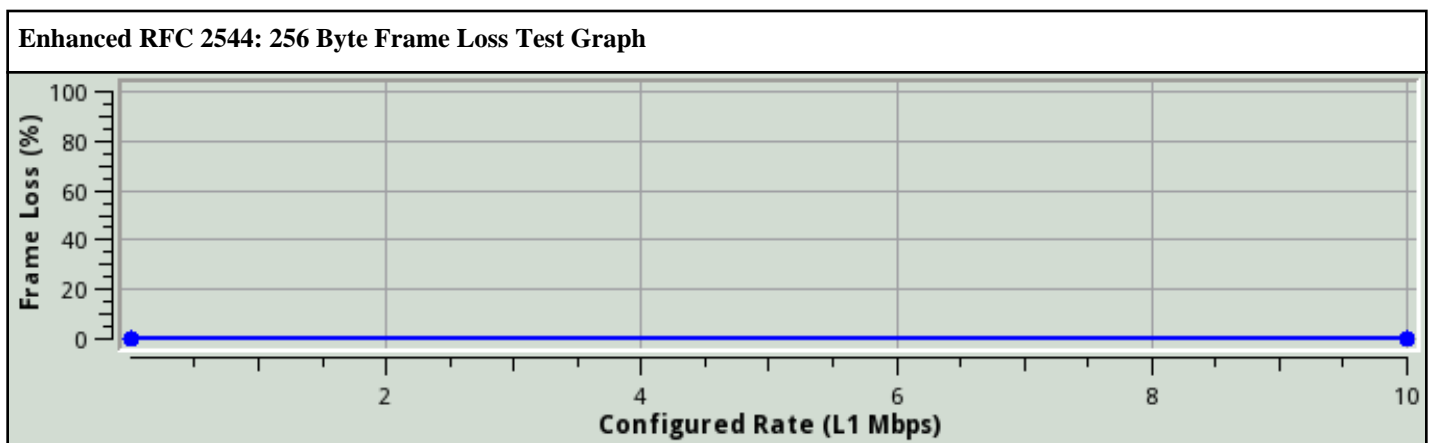
<i>Pass/Fail</i>	<i>Frame Length (Bytes)</i>	<i>Max Avg Jitter (us)</i>	<i>Measured L1 Rate (Mbps)</i>	<i>Measured L1 (% Line Rate)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>
Pass	66	0.00	10.000	10.000	14,535	No
Pass	128	0.00	10.000	10.000	8,446	No
Pass	256	0.00	10.000	10.000	4,529	No
Pass	512	0.00	10.002	10.002	2,350	No
Pass	1024	0.00	10.006	10.006	1,198	No
Pass	1280	0.00	10.005	10.005	962	No
Pass	1518	0.00	10.003	10.003	813	No



Enhanced RFC 2544: 66 Byte Frame Loss Test Results				
<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.000	0.00	0	No	10.000
0.001	0.00	0	No	0.001

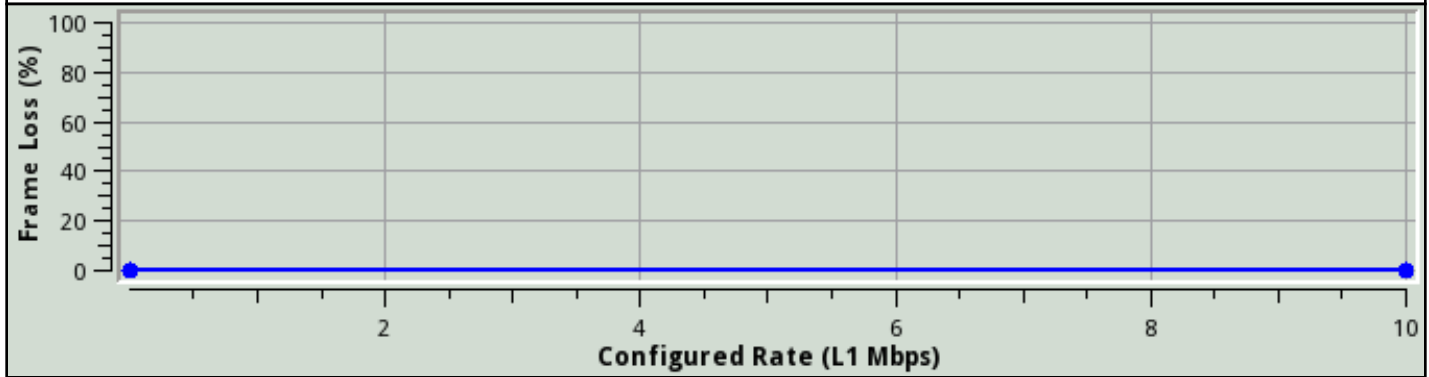


Enhanced RFC 2544: 128 Byte Frame Loss Test Results				
<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.000	0.00	0	No	10.000
0.001	0.00	0	No	0.001



Enhanced RFC 2544: 256 Byte Frame Loss Test Results				
<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.000	0.00	0	No	10.000
0.002	0.00	0	No	0.001

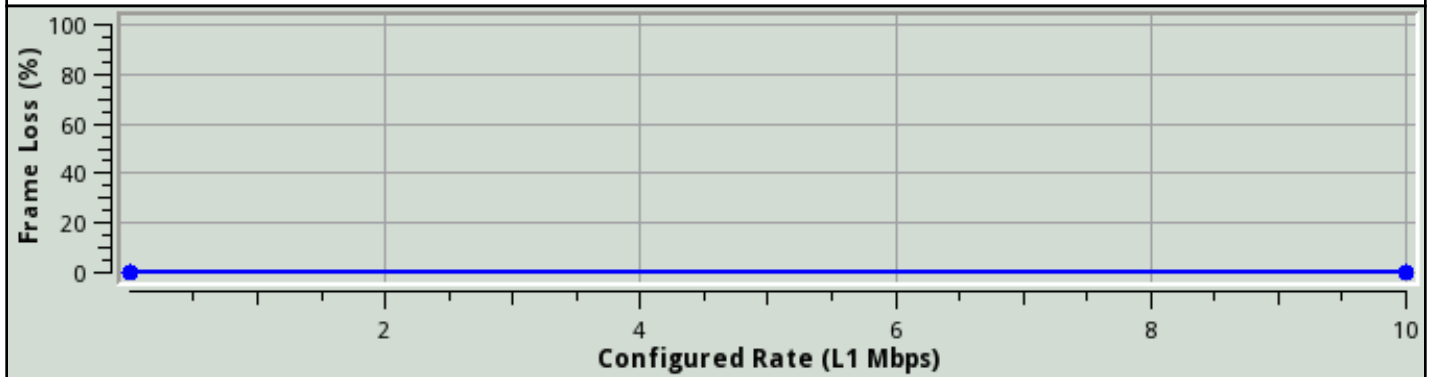
Enhanced RFC 2544: 512 Byte Frame Loss Test Graph



Enhanced RFC 2544: 512 Byte Frame Loss Test Results

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.002	0.00	0	No	10.000
0.004	0.00	0	No	0.001

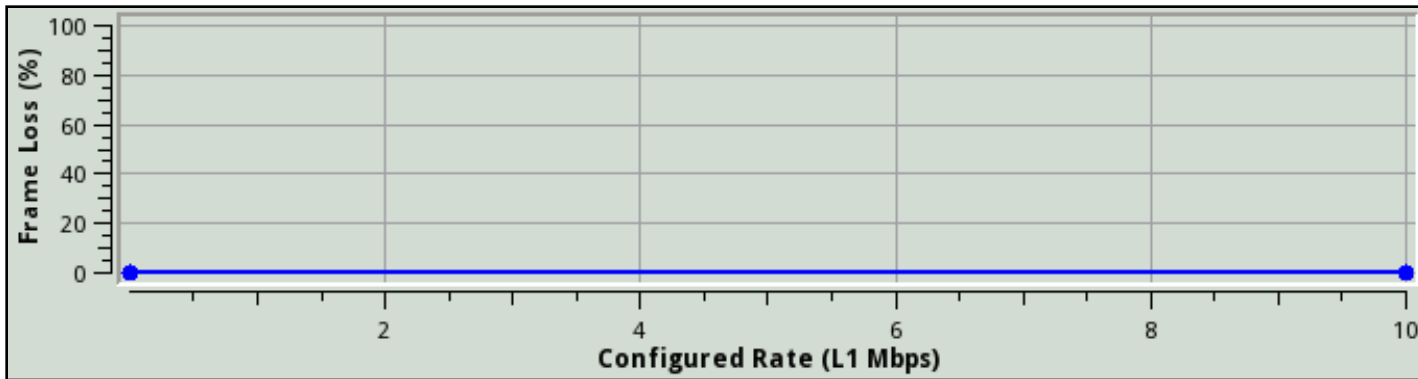
Enhanced RFC 2544: 1024 Byte Frame Loss Test Graph



Enhanced RFC 2544: 1024 Byte Frame Loss Test Results

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.006	0.00	0	No	10.000
0.008	0.00	0	No	0.001

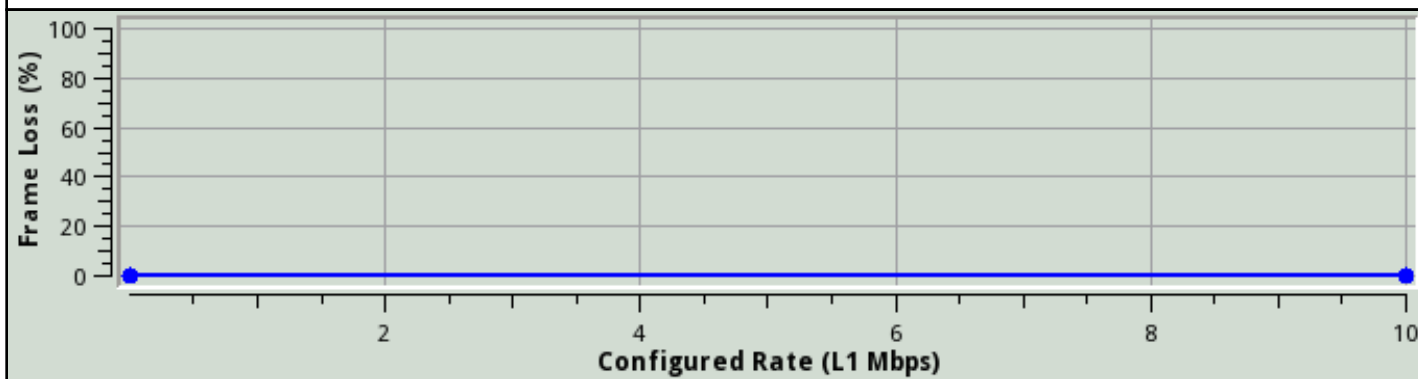
Enhanced RFC 2544: 1280 Byte Frame Loss Test Graph



Enhanced RFC 2544: 1280 Byte Frame Loss Test Results

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.005	0.00	0	No	10.000
0.010	0.00	0	No	0.001

Enhanced RFC 2544: 1518 Byte Frame Loss Test Graph



Enhanced RFC 2544: 1518 Byte Frame Loss Test Results

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
10.003	0.00	0	No	10.000
0.012	0.00	0	No	0.001

Enhanced RFC 2544: Back to Back Test Results

<i>Frame Length (Bytes)</i>	<i>Average Burst Frames</i>	<i>Average Burst Seconds</i>	<i>Pause Detect</i>
66	290,698	2.000	No
128	168,919	2.000	No
256	90,580	2.000	No

512	46,992	2.000	No
1024	23,946	2.000	No
1280	19,231	2.000	No
1518	16,255	2.000	No

Enhanced RFC 2544: Network Configuration	
Frame Type	802.3
Test Mode	Traffic
Encapsulation	None
Loop Type	Broadcast
Source MAC	00-80-16-8A-69-CF
Auto-increment SA MAC	No
Destination MAC	00-80-16-8A-96-A7

Enhanced RFC 2544: Local Auto Negotiation Status	
Auto Negotiation	On
Speed (Mbps)	100
Duplex	Full
10Base-TX FDX	Yes
10Base-TX HDX	Yes
100Base-TX FDX	Yes
100Base-TX HDX	Yes
1000Base-TX FDX	No
1000Base-TX HDX	No

Enhanced RFC 2544: Test Configuration	
Tests to Run	Throughput, Latency, Packet Jitter, Frame Loss, Back to Back
Bandwidth Unit	L1 Mbps
Max Test Bandwidth (Mbps)	10.000
Frame Lengths Selected (bytes)	66, 128, 256, 512, 1024, 1280, 1518
Throughput Measurement Accuracy	To within 1 Mbps
Throughput Zeroing-in Process	RFC 2544 Standard

Throughput Frame Loss Tolerance (%)	0
Throughput Duration (s)	60
Throughput Pass Threshold	Selected
Throughput Pass Threshold (Mbps)	10.000
Number of Latency Trials	20
Latency Trial Duration (s)	60
Latency Pass Threshold	Selected
Latency Pass Threshold (us)	1000
Number of Packet Jitter Trials	20
Packet Jitter Trial Duration (s)	60
Packet Jitter Pass Threshold	Selected
Packet Jitter Pass Threshold (us)	0
Frame Loss Test Procedure	RFC 2544 Standard
Frame Loss Trial Duration (s)	30
Frame Loss Bandwidth Granularity (Mbps)	10
Back to Back Number of Trials	50
Back to Back Granularity (Frames)	1
Back to Back Max Burst Duration (s)	2
Back to Back Pause Frame Policy	Detect Pause Frames