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Xena2544 Test Report

Test Summary

Test company: Xena Networks
Customer: Xena Networks

Test Date and Time: 2016-04-15, 03:18
Test Duration: 00:08:48 (h:m:s)
Generated By: Xena2544 v2.33 on Windows

Test Setup

Test Configuration

Main Test Options

Topology: Blocks
Direction: Bidirectional
Frame Size Type: IEEE Default
Frame Sizes Used: 64,128,256,512,1024,1280,1518

Toggle Port Sync: Yes
Sync Off Duration: 1 seconds
Sync On Delay: 1 seconds

Flow Creation Type: Stream-based
Enable Multi-Stream: No

Test Type Selection

Throughput Test: Enabled
Latency and Jitter Test: Enabled
Frame Loss Rate Test: Enabled
Back-to-Back Test: Enabled

Port Configuration

Used Chassis Summary

Chassis ID	Chassis Name	Address and Port
C-0	New chassis	172.16.255.200:22606

Used Ports Summary

Port ID	Interface Type	Port Group	Port Peer	Port Speed	Port Rate
P-0-4-4	SFP-O LR 1310 nm	West	N/A	AUTO	488 M
P-0-4-5	SFP-O LR 1310 nm	East	N/A	AUTO	500 M

Port Traffic Setup

Port ID	IP Address & Gateway	Protocol Segment Profile
P-0-4-4	No address specified	1: Ethernet
P-0-4-5	No address specified	1: Ethernet

Throughput Test Results

Test Setup

Duration:	1 seconds
Iteration:	1
Initial Rate:	100.000 %
Maximum Rate:	100.000 %
Minimum Rate:	0.100 %
Resolution:	0.500 %
Use Pass Threshold:	No
Pass Threshold:	0.000 %
Acceptable Loss:	0.000 %
Rate Result Scope:	Common Result
Use Fast Binary Search:	No

Test Results

Frame Size	64	128	256	512	1024	1280
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Tx Rate (Percent)	100 %	100 %	100 %	100 %	100 %	100 %
Tx (Frames)	1,470,237	834,459	447,463	232,142	118,294	94,999
Tx Rate (L1) (Bit/s)	988 M	988 M	988 M	988 M	987.99 M	987.99 M
Tx Rate (L2) (Bit/s)	752.76 M	854.49 M	916.4 M	950.85 M	969.06 M	972.79 M
Tx Rate (Fps)	1,470,237	834,459	447,463	232,142	118,294	94,999
Rx (Frames)	1,470,237	834,459	447,463	232,142	118,294	94,999
Loss (Frames)	0	0	0	0	0	0
Loss Rate (Percent)	0 %	0 %	0 %	0 %	0 %	0 %
P-0-4-4						
- Tx (Frames)	726,190	412,162	221,014	114,661	58,429	46,923
- Tx Rate (L1) (Bit/s)	488 M	488 M	488 M	488 M	488 M	488 M
- Tx Rate (L2) (Bit/s)	371.81 M	422.05 M	452.64 M	469.65 M	478.65 M	480.49 M
- Tx Rate (Fps)	726,190	412,162	221,014	114,661	58,429	46,923
- Rx (Frames)	744,047	422,297	226,449	117,481	59,865	48,076
- Rx Rate (L1) (Bit/s)	500 M	500 M	500 M	500 M	499.99 M	499.99 M
- Rx Rate (L2) (Bit/s)	380.95 M	432.43 M	463.77 M	481.2 M	490.41 M	492.3 M
- Rx Rate (Fps)	744,047	422,297	226,449	117,481	59,865	48,076
P-0-4-5						
- Tx (Frames)	744,047	422,297	226,449	117,481	59,865	48,076
- Tx Rate (L1) (Bit/s)	500 M	500 M	500 M	500 M	499.99 M	499.99 M
- Tx Rate (L2) (Bit/s)	380.95 M	432.43 M	463.77 M	481.2 M	490.41 M	492.3 M
- Tx Rate (Fps)	744,047	422,297	226,449	117,481	59,865	48,076
- Rx (Frames)	726,190	412,162	221,014	114,661	58,429	46,923
- Rx Rate (L1) (Bit/s)	488 M	488 M	488 M	488 M	488 M	488 M
- Rx Rate (L2) (Bit/s)	371.81 M	422.05 M	452.64 M	469.65 M	478.65 M	480.49 M
- Rx Rate (Fps)	726,190	412,162	221,014	114,661	58,429	46,923

Frame Size	1518
Result State	PASS
Tx Rate (Percent)	100 %
Tx (Frames)	80,298
Tx Rate (L1) (Bit/s)	987.99 M
Tx Rate (L2) (Bit/s)	975.14 M
Tx Rate (Fps)	80,298
Rx (Frames)	80,298
Loss (Frames)	0
Loss Rate (Percent)	0 %
P-0-4-4	
- Tx (Frames)	39,661
- Tx Rate (L1) (Bit/s)	487.99 M
- Tx Rate (L2) (Bit/s)	481.64 M
- Tx Rate (Fps)	39,661
- Rx (Frames)	40,637
- Rx Rate (L1) (Bit/s)	500 M
- Rx Rate (L2) (Bit/s)	493.5 M

- Rx Rate (Fps)	40,637
P-0-4-5	
- Tx (Frames)	40,637
- Tx Rate (L1) (Bit/s)	500 M
- Tx Rate (L2) (Bit/s)	493.5 M
- Tx Rate (Fps)	40,637
- Rx (Frames)	39,661
- Rx Rate (L1) (Bit/s)	487.99 M
- Rx Rate (L2) (Bit/s)	481.64 M
- Rx Rate (Fps)	39,661

Throughput by Frame Size vs Theoretical Max
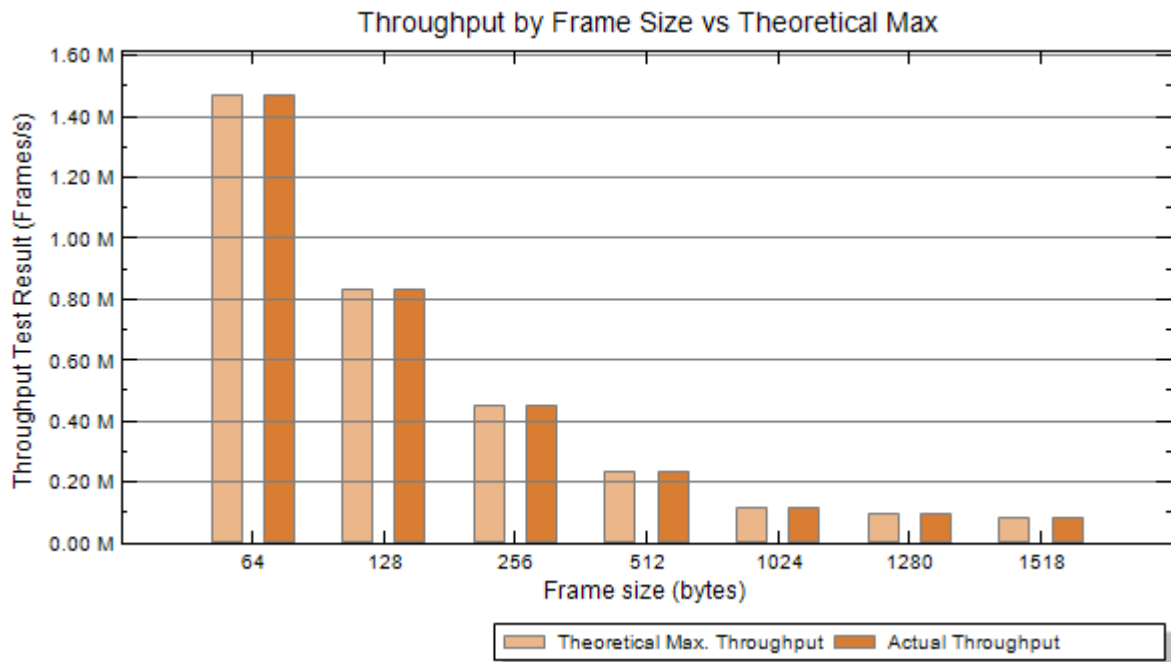
Latency and Jitter Test Results
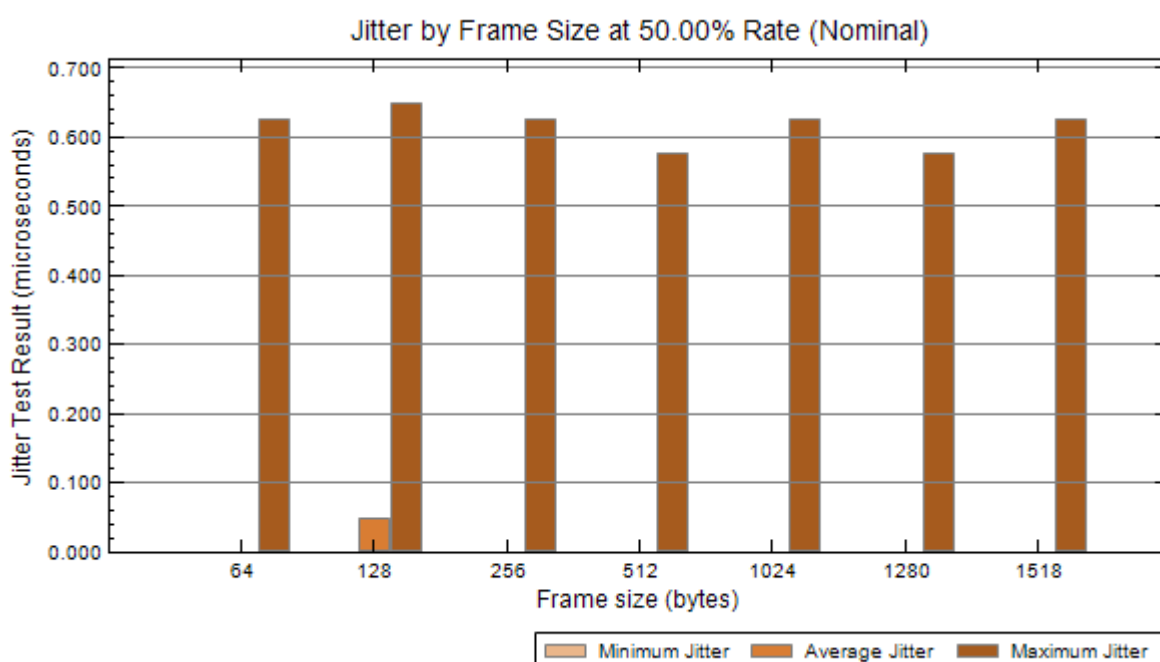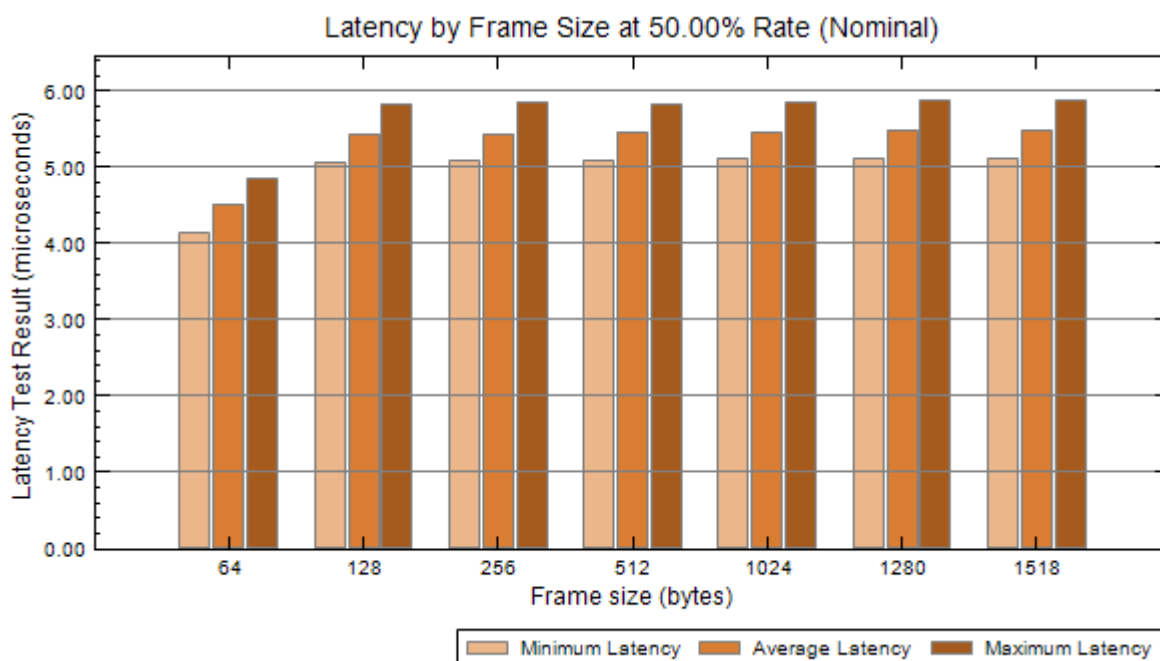
Test Setup

Duration:	1 seconds
Iteration:	1
Latency Mode:	Last-To-Last
Relative to Throughput:	Yes

Test Results

Results for 50.00% Rate (Nominal)

Frame Size	64	128	256	512	1024	1280
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Tx Rate (Percent)	50 %	50 %	50 %	50 %	50 %	50 %
Tx Rate (L1) (Bit/s)	494 M	494 M	494 M	493.99 M	493.99 M	493.99 M
Tx Rate (Fps)	735,118	417,229	223,731	116,070	59,146	47,499
Tx (Frames)	735,118	417,229	223,731	116,070	59,146	47,499
Rx (Frames)	735,118	417,229	223,731	116,070	59,146	47,499
P-0-4-4						
- Tx (Frames)	363,095	206,081	110,507	57,330	29,214	23,461
- Rx (Frames)	372,023	211,148	113,224	58,740	29,932	24,038
- Avg Latency (micsec)	4.521	5.432	5.448	5.459	5.467	5.475
- Min Latency (micsec)	4.138	5.061	5.077	5.085	5.101	5.109
- Max Latency (micsec)	4.860	5.830	5.846	5.830	5.822	5.830
- Avg Jitter (micsec)	0.000	0.000	0.000	0.000	0.000	0.000
- Min Jitter (micsec)	0.000	0.000	0.000	0.000	0.000	0.000
- Max Jitter (micsec)	0.601	0.601	0.553	0.529	0.577	0.577
P-0-4-5						
- Tx (Frames)	372,023	211,148	113,224	58,740	29,932	24,038
- Rx (Frames)	363,095	206,081	110,507	57,330	29,214	23,461
- Avg Latency (micsec)	4.518	5.425	5.421	5.432	5.454	5.461
- Min Latency (micsec)	4.138	5.109	5.101	5.085	5.125	5.133
- Max Latency (micsec)	4.836	5.830	5.798	5.806	5.846	5.878
- Avg Jitter (micsec)	0.000	0.097	0.000	0.000	0.000	0.000
- Min Jitter (micsec)	0.000	0.000	0.000	0.000	0.000	0.000
- Max Jitter (micsec)	0.625	0.649	0.625	0.577	0.625	0.577

Frame Size	1518
Result State	PASS
Tx Rate (Percent)	50 %
Tx Rate (L1) (Bit/s)	493.98 M
Tx Rate (Fps)	40,148
Tx (Frames)	40,148
Rx (Frames)	40,148
P-0-4-4	
- Tx (Frames)	19,830
- Rx (Frames)	20,318
- Avg Latency (micsec)	5.485
- Min Latency (micsec)	5.117
- Max Latency (micsec)	5.862
- Avg Jitter (micsec)	0.000
- Min Jitter (micsec)	0.000
- Max Jitter (micsec)	0.625
P-0-4-5	
- Tx (Frames)	20,318
- Rx (Frames)	19,830
- Avg Latency (micsec)	5.456
- Min Latency (micsec)	5.141
- Max Latency (micsec)	5.838
- Avg Jitter (micsec)	0.000
- Min Jitter (micsec)	0.000
- Max Jitter (micsec)	0.553

Latency by Frame Size at 50.00% Rate (Nominal)

Jitter by Frame Size at 50.00% Rate (Nominal)

Results for 100.00% Rate (Nominal)

Frame Size	64	128	256	512	1024	1280
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Tx Rate (Percent)	100 %	100 %	100 %	100 %	100 %	100 %
Tx Rate (L1) (Bit/s)	988 M	988 M	988 M	988 M	987.99 M	987.99 M
Tx Rate (Fps)	1,470,237	834,459	447,463	232,142	118,294	94,999
Tx (Frames)	1,470,237	834,459	447,463	232,142	118,294	94,999
Rx (Frames)	1,470,237	834,459	447,463	232,142	118,294	94,999
P-0-4-4						
- Tx (Frames)	726,190	412,162	221,014	114,661	58,429	46,923
- Rx (Frames)	744,047	422,297	226,449	117,481	59,865	48,076

- Avg Latency (micsec)	4.314	5.312	5.297	5.368	5.373	5.383
- Min Latency (micsec)	4.090	5.085	5.077	5.085	5.077	5.109
- Max Latency (micsec)	4.764	5.710	5.774	5.854	5.846	5.854
- Avg Jitter (micsec)	0.001	0.000	0.000	0.000	0.000	0.000
- Min Jitter (micsec)	0.000	0.000	0.000	0.000	0.000	0.000
- Max Jitter (micsec)	0.457	0.481	0.577	0.625	0.601	0.577
P-0-4-5						
- Tx (Frames)	744,047	422,297	226,449	117,481	59,865	48,076
- Rx (Frames)	726,190	412,162	221,014	114,661	58,429	46,923
- Avg Latency (micsec)	4.321	5.320	5.289	5.404	5.460	5.471
- Min Latency (micsec)	4.114	5.061	5.077	5.085	5.101	5.133
- Max Latency (micsec)	4.788	5.782	5.774	5.830	5.846	5.854
- Avg Jitter (micsec)	0.001	0.000	0.000	0.000	0.000	0.000
- Min Jitter (micsec)	0.000	0.000	0.000	0.000	0.000	0.000
- Max Jitter (micsec)	0.481	0.505	0.553	0.625	0.601	0.601

Frame Size	1518
Result State	PASS
Tx Rate (Percent)	100 %
Tx Rate (L1) (Bit/s)	987.99 M
Tx Rate (Fps)	80,298
Tx (Frames)	80,298
Rx (Frames)	80,298
P-0-4-4	
- Tx (Frames)	39,661
- Rx (Frames)	40,637
- Avg Latency (micsec)	5.458
- Min Latency (micsec)	5.117
- Max Latency (micsec)	5.838
- Avg Jitter (micsec)	0.000
- Min Jitter (micsec)	0.000
- Max Jitter (micsec)	0.649
P-0-4-5	
- Tx (Frames)	40,637
- Rx (Frames)	39,661
- Avg Latency (micsec)	5.458
- Min Latency (micsec)	5.117
- Max Latency (micsec)	5.838
- Avg Jitter (micsec)	0.000
- Min Jitter (micsec)	0.000
- Max Jitter (micsec)	0.649

Latency by Frame Size at 100.00% Rate (Nominal)

Latency Test Result (microseconds) vs Frame size (bytes)

Frame sizes: 64, 128, 256, 512, 1024, 1280, 1518

Legend: Minimum Latency | Average Latency | Maximum Latency

Jitter by Frame Size at 100.00% Rate (Nominal)

Jitter Test Result (microseconds) vs Frame size (bytes)

Frame sizes: 64, 128, 256, 512, 1024, 1280, 1518

Legend: Minimum Jitter | Average Jitter | Maximum Jitter
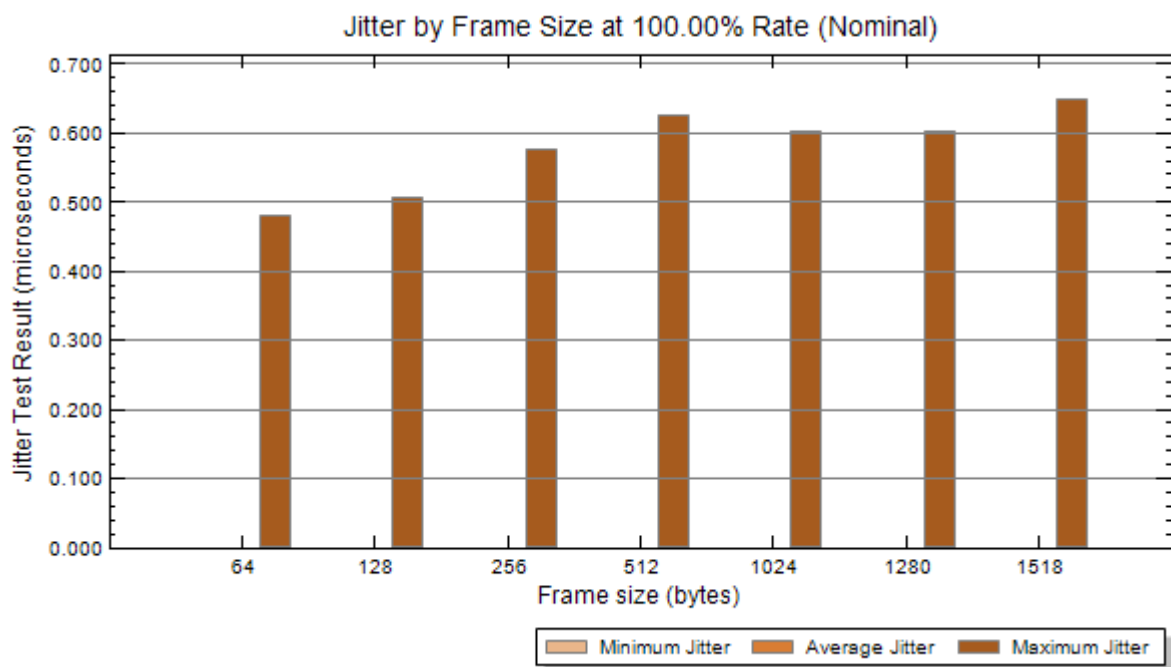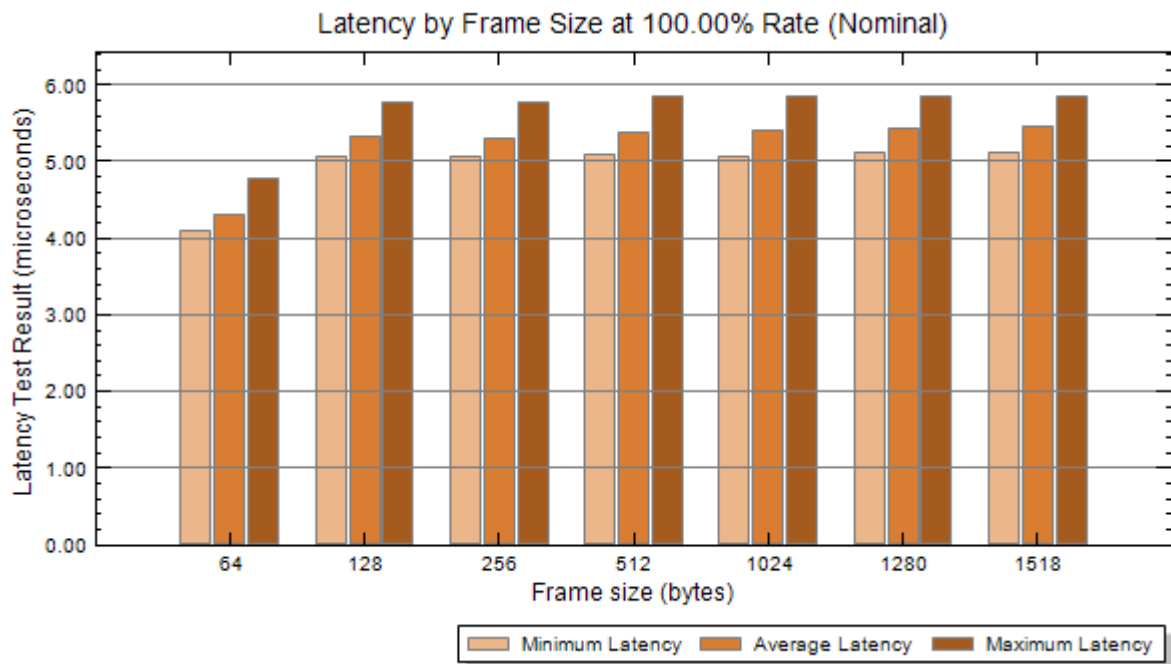
Frame Loss Rate Test Results

Test Setup

Duration: 1 seconds
Iteration: 1

Test Results

Results for 50.00% Rate

Frame Size	64	128	256	512	1024	1280
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Tx (Frames)	735,118	417,229	223,731	116,070	59,146	47,499
Tx Rate (Fps)	735,118	417,229	223,731	116,070	59,146	47,499
Tx Rate (L1) (Bit/s)	494 M	494 M	494 M	493.99 M	493.99 M	493.99 M
Rx (Frames)	735,118	417,229	223,731	116,070	59,146	47,499
Rx Rate (Fps)	735.12 K	417.23 K	223.73 K	116.07 K	59.15 K	47.5 K
Rx Rate (L1) (Bit/s)	494 M	494 M	494 M	493.99 M	493.99 M	493.99 M
Loss (Frames)	0	0	0	0	0	0
Loss Rate (Percent)	0 %	0 %	0 %	0 %	0 %	0 %
P-0-4-4						
- Tx (Frames)	363,095	206,081	110,507	57,330	29,214	23,461
- Tx Rate (L1) (Bit/s)	244 M	244 M	244 M	244 M	244 M	243.99 M
- Tx Rate (Fps)	363,095	206,081	110,507	57,330	29,214	23,461
- Rx (Frames)	372,023	211,148	113,224	58,740	29,932	24,038
- Rx Rate (L1) (Bit/s)	250 M	250 M	250 M	250 M	249.99 M	250 M
- Rx Rate (Fps)	372,023	211,148	113,224	58,740	29,932	24,038
P-0-4-5						
- Tx (Frames)	372,023	211,148	113,224	58,740	29,932	24,038
- Tx Rate (L1) (Bit/s)	250 M	250 M	250 M	250 M	249.99 M	250 M
- Tx Rate (Fps)	372,023	211,148	113,224	58,740	29,932	24,038
- Rx (Frames)	363,095	206,081	110,507	57,330	29,214	23,461
- Rx Rate (L1) (Bit/s)	244 M	244 M	244 M	244 M	244 M	243.99 M
- Rx Rate (Fps)	363,095	206,081	110,507	57,330	29,214	23,461

Frame Size	1518
Result State	PASS
Tx (Frames)	40,148
Tx Rate (Fps)	40,148
Tx Rate (L1) (Bit/s)	493.98 M
Rx (Frames)	40,148
Rx Rate (Fps)	40.15 K
Rx Rate (L1) (Bit/s)	493.98 M
Loss (Frames)	0
Loss Rate (Percent)	0 %
P-0-4-4	
- Tx (Frames)	19,830
- Tx Rate (L1) (Bit/s)	243.99 M
- Tx Rate (Fps)	19,830
- Rx (Frames)	20,318
- Rx Rate (L1) (Bit/s)	249.99 M
- Rx Rate (Fps)	20,318
P-0-4-5	
- Tx (Frames)	20,318
- Tx Rate (L1) (Bit/s)	249.99 M
- Tx Rate (Fps)	20,318
- Rx (Frames)	19,830
- Rx Rate (L1) (Bit/s)	243.99 M
- Rx Rate (Fps)	19,830
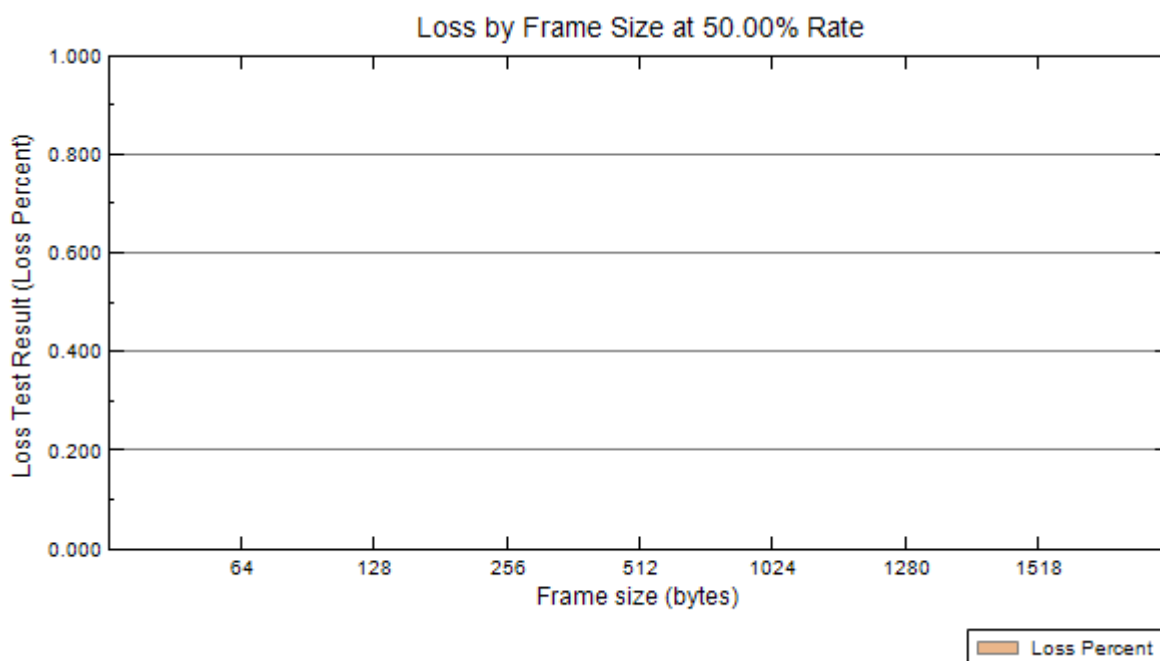
Loss by Frame Size at 50.00% Rate

Results for 100.00% Rate

Frame Size	64	128	256	512	1024	1280
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Tx (Frames)	1,470,237	834,459	447,463	232,142	118,294	94,999
Tx Rate (Fps)	1,470,237	834,459	447,463	232,142	118,294	94,999
Tx Rate (L1) (Bit/s)	988 M	988 M	988 M	988 M	987.99 M	987.99 M
Rx (Frames)	1,470,237	834,459	447,463	232,142	118,294	94,999
Rx Rate (Fps)	1.47 M	834.46 K	447.46 K	232.14 K	118.29 K	95 K
Rx Rate (L1) (Bit/s)	988 M	988 M	988 M	988 M	987.99 M	987.99 M
Loss (Frames)	0	0	0	0	0	0
Loss Rate (Percent)	0 %	0 %	0 %	0 %	0 %	0 %
P-0-4-4						
- Tx (Frames)	726,190	412,162	221,014	114,661	58,429	46,923
- Tx Rate (L1) (Bit/s)	488 M	488 M	488 M	488 M	488 M	488 M
- Tx Rate (Fps)	726,190	412,162	221,014	114,661	58,429	46,923
- Rx (Frames)	744,047	422,297	226,449	117,481	59,865	48,076
- Rx Rate (L1) (Bit/s)	500 M	500 M	500 M	500 M	499.99 M	499.99 M
- Rx Rate (Fps)	744,047	422,297	226,449	117,481	59,865	48,076
P-0-4-5						
- Tx (Frames)	744,047	422,297	226,449	117,481	59,865	48,076
- Tx Rate (L1) (Bit/s)	500 M	500 M	500 M	500 M	499.99 M	499.99 M
- Tx Rate (Fps)	744,047	422,297	226,449	117,481	59,865	48,076
- Rx (Frames)	726,190	412,162	221,014	114,661	58,429	46,923
- Rx Rate (L1) (Bit/s)	488 M	488 M	488 M	488 M	488 M	488 M
- Rx Rate (Fps)	726,190	412,162	221,014	114,661	58,429	46,923

Frame Size	1518
Result State	PASS
Tx (Frames)	80,298
Tx Rate (Fps)	80,298
Tx Rate (L1) (Bit/s)	987.99 M
Rx (Frames)	80,298
Rx Rate (Fps)	80.3 K
Rx Rate (L1) (Bit/s)	987.99 M
Loss (Frames)	0
Loss Rate (Percent)	0 %
P-0-4-4	
- Tx (Frames)	39,661
- Tx Rate (L1) (Bit/s)	487.99 M
- Tx Rate (Fps)	39,661

- Rx (Frames)	40,637
- Rx Rate (L1) (Bit/s)	500 M
- Rx Rate (Fps)	40,637
P-0-4-5	
- Tx (Frames)	40,637
- Tx Rate (L1) (Bit/s)	500 M
- Tx Rate (Fps)	40,637
- Rx (Frames)	39,661
- Rx Rate (L1) (Bit/s)	487.99 M
- Rx Rate (Fps)	39,661

Loss by Frame Size at 100.00% Rate
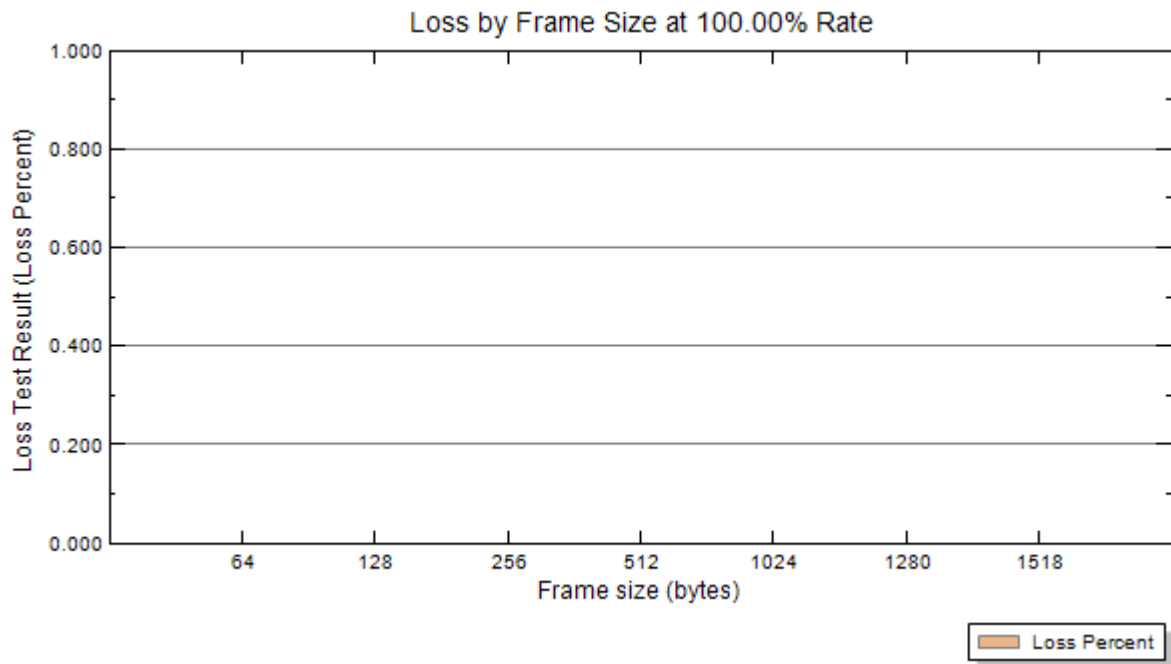
Back-to-Back Test Results

## Test Setup

Duration:	1 seconds
Iteration:	1
Rate Result Scope:	Common Result

Test Results

Results for 50.00% Rate

Frame Size	64	128	256
Result State	PASS	PASS	PASS
Tx Burst (Frames)	735,118	417,229	223,731
Tx Burst (Bytes)	47,047,552	53,405,312	57,275,136
Max Offered Rate (Fps)	735,118	417,229	223,731
Max Offered Rate (Bit/s)	500 M	500 M	500 M
P-0-4-4			
- Tx Burst (Frames)	363,095	206,081	110,507
- Tx Burst (Bytes)	23,238,080	26,378,368	28,289,792
P-0-4-5			
- Tx Burst (Frames)	372,023	211,148	113,224
- Tx Burst (Bytes)	23,809,472	27,026,944	28,985,344

Maximum Burst by Frame Size at 50.00% Rate
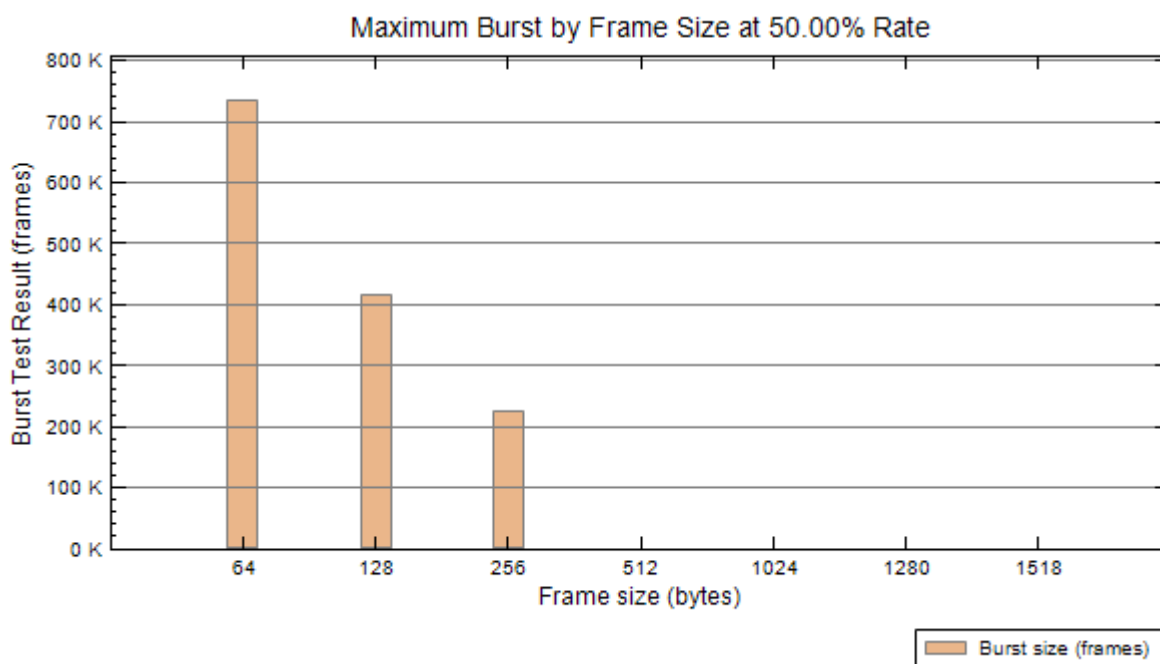
Results for 100.00% Rate

Frame Size	64	128	256
Result State	PASS	PASS	PASS
Tx Burst (Frames)	1,470,237	834,459	447,463
Tx Burst (Bytes)	94,095,168	106,810,752	114,550,528
Max Offered Rate (Fps)	1,470,237	834,459	447,463
Max Offered Rate (Bit/s)	988 M	988 M	988 M
P-0-4-4			
- Tx Burst (Frames)	726,190	412,162	221,014
- Tx Burst (Bytes)	46,476,160	52,756,736	56,579,584
P-0-4-5			

- Tx Burst (Frames)	744,047	422,297	226,449
- Tx Burst (Bytes)	47,619,008	54,054,016	57,970,944

Maximum Burst by Frame Size at 100.00% Rate