

Document Information

Document Date: 2010-05-20 15:53:02

Comment

Customer:

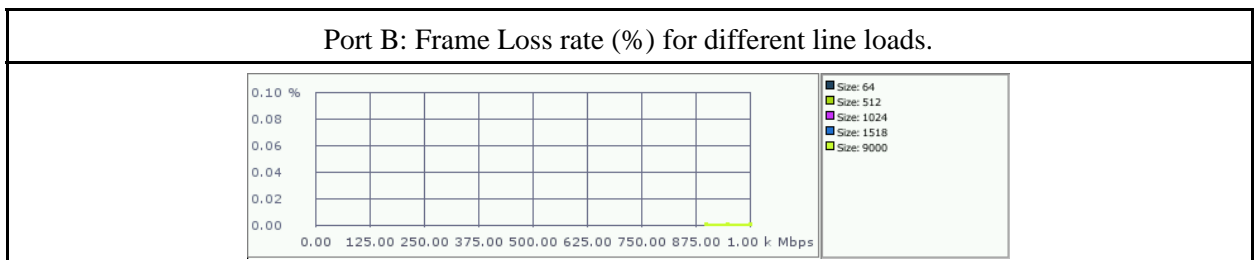
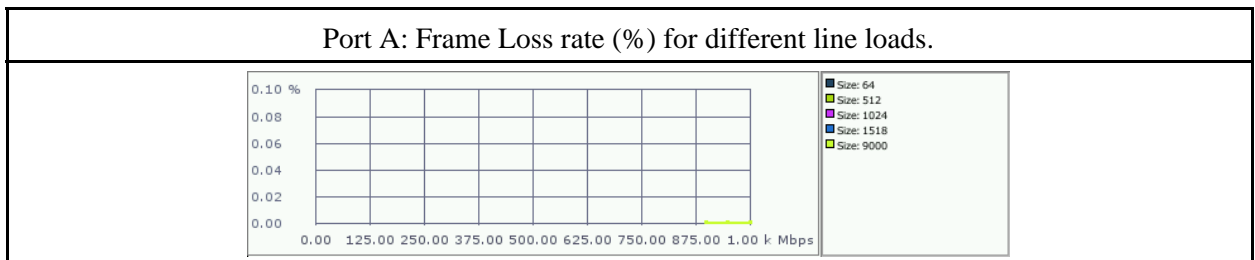
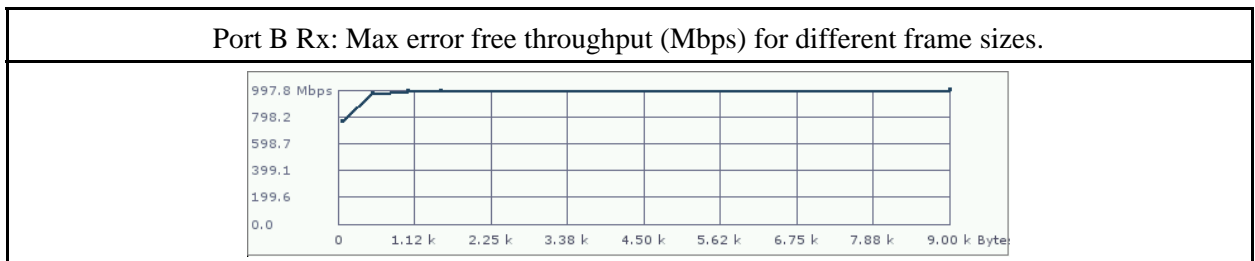
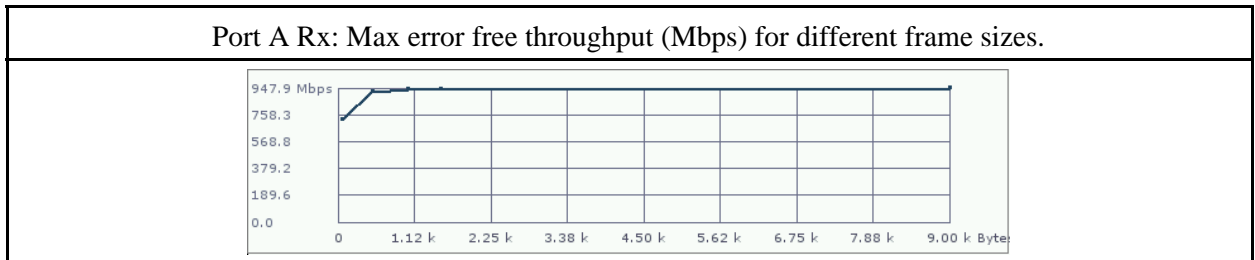
Project/description:

Operator:

Notes:

RFC2544: Throughput & Frame Loss Results

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Port A Tx

Rep	Step	Total frames	Frame size (Bytes)	Frame rate	Line load (Mbps)
2	45	3.741685 M	9000	12.472 k	900.00000
2	44	3.949556 M	9000	13.165 k	950.00000
2	43	4.157427 M	9000	13.858 k	1000.00000
2	42	21.94408 M	1518	73.146 k	900.00000

2	41	23.16320 M	1518	77.210 k	950.00000
2	40	24.38231 M	1518	81.274 k	1000.00000
2	39	32.32759 M	1024	107.758 k	900.00000
2	38	34.12356 M	1024	113.745 k	950.00000
2	37	35.91954 M	1024	119.731 k	1000.00000
2	36	63.43985 M	512	211.466 k	900.00000
2	35	66.96429 M	512	223.214 k	950.00000
2	34	70.48872 M	512	234.962 k	1000.00000
2	33	401.7857 M	64	1.339285 M	900.00000
2	32	424.1071 M	64	1.413690 M	950.00000
2	31	446.4286 M	64	1.488095 M	1000.00000

Port A Rx [Throughput: Physical layer (no preamble) (avg.)]					
Rep	Step	Total frames	Thrp.(Mbps)/Util. (%)	Frames lost(min/max/avg)	Loss rate(min/max/avg %)
2	45	3.741685 M	898.02831 / 90.0052	0 / 0 / 0	0.0 / 0.0 / 0.0
2	44	3.949556 M	947.91877 / 95.0059	0 / 0 / 0	0.0 / 0.0 / 0.0
2	43	4.157359 M	997.79069 / 100.0000	68 / 69 / 68	0.0 / 0.0 / 0.0
2	42	21.94408 M	888.32020 / 90.0025	0 / 0 / 0	0.0 / 0.0 / 0.0
2	41	23.16320 M	937.67114 / 95.0029	0 / 0 / 0	0.0 / 0.0 / 0.0
2	40	24.38191 M	987.00405 / 100.0000	405 / 407 / 406	0.0 / 0.0 / 0.0
2	39	32.32759 M	882.78219 / 90.0028	0 / 0 / 0	0.0 / 0.0 / 0.0
2	38	34.12356 M	931.82545 / 95.0032	0 / 0 / 0	0.0 / 0.0 / 0.0
2	37	35.91892 M	980.85079 / 100.0000	616 / 619 / 617	0.0 / 0.0 / 0.0
2	36	63.43985 M	866.18853 / 90.0025	0 / 0 / 0	0.0 / 0.0 / 0.0
2	35	66.96429 M	914.30994 / 95.0029	0 / 0 / 0	0.0 / 0.0 / 0.0
2	34	70.48747 M	962.41378 / 100.0000	1.247 k / 1.254 k / 1.250 k	0.0 / 0.0 / 0.0
2	33	401.7857 M	685.73260 / 90.0024	0 / 0 / 0	0.0 / 0.0 / 0.0
2	32	424.1071 M	723.82871 / 95.0026	0 / 0 / 0	0.0 / 0.0 / 0.0
2	31	446.4205 M			0.0 / 0.0 / 0.0

			761.91089 / 100.0000	8.103 k/ 8.147 k/ 8.119 k
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Port B Tx					
Rep	Step	Total frames	Frame rate	Frame size (Bytes)	Line load (Mbps)
2	45	3.741685 M	12.472 k	9000	900.00000
2	44	3.949556 M	13.165 k	9000	950.00000
2	43	4.157427 M	13.858 k	9000	1000.00000
2	42	21.94408 M	73.146 k	1518	900.00000
2	41	23.16320 M	77.210 k	1518	950.00000
2	40	24.38231 M	81.274 k	1518	1000.00000
2	39	32.32759 M	107.758 k	1024	900.00000
2	38	34.12356 M	113.745 k	1024	950.00000
2	37	35.91954 M	119.731 k	1024	1000.00000
2	36	63.43985 M	211.466 k	512	900.00000
2	35	66.96429 M	223.214 k	512	950.00000
2	34	70.48872 M	234.962 k	512	1000.00000
2	33	401.7857 M	1.339285 M	64	900.00000
2	32	424.1071 M	1.413690 M	64	950.00000
2	31	446.4286 M	1.488095 M	64	1000.00000

Port B Rx [Throughput: Physical layer (no preamble) (avg.)]					
Rep	Step	Total frames	Thrp.(Mbps)/Util. (%)	Frames lost(min/max/avg)	Loss rate(min/max/avg %)
2	45	3.741685 M	897.97918 / 89.9980	0/ 0/ 0	0.0 / 0.0 / 0.0
2	44	3.949556 M	947.86652 / 94.9986	0/ 0/ 0	0.0 / 0.0 / 0.0
2	43	4.157427 M	997.75409 / 99.9993	0/ 0/ 0	0.0 / 0.0 / 0.0
2	42	21.94408 M	888.27142 / 89.9976	0/ 0/ 0	0.0 / 0.0 / 0.0
2	41	23.16320 M	937.61964 / 94.9980	0/ 0/ 0	0.0 / 0.0 / 0.0
2	40	24.38231 M	986.96790 / 99.9983	0/ 0/ 0	0.0 / 0.0 / 0.0
2	39	32.32759 M	882.73373 / 89.9978	0/ 0/ 0	0.0 / 0.0 / 0.0
2	38	34.12356 M	931.77433 / 94.9973	0/ 0/ 0	0.0 / 0.0 / 0.0
2	37	35.91954 M	980.81490 / 99.9977	0/ 0/ 0	0.0 / 0.0 / 0.0

2	36	63.43985 M	866.14098 / 89.9978	0 / 0 / 0	0.0 / 0.0 / 0.0
2	35	66.96429 M	914.25975 / 94.9973	0 / 0 / 0	0.0 / 0.0 / 0.0
2	34	70.48872 M	962.37850 / 99.9973	0 / 0 / 0	0.0 / 0.0 / 0.0
2	33	401.7857 M	685.69492 / 89.9975	0 / 0 / 0	0.0 / 0.0 / 0.0
2	32	424.1071 M	723.78893 / 94.9973	0 / 0 / 0	0.0 / 0.0 / 0.0
2	31	446.4286 M	761.88294 / 99.9976	0 / 0 / 0	0.0 / 0.0 / 0.0

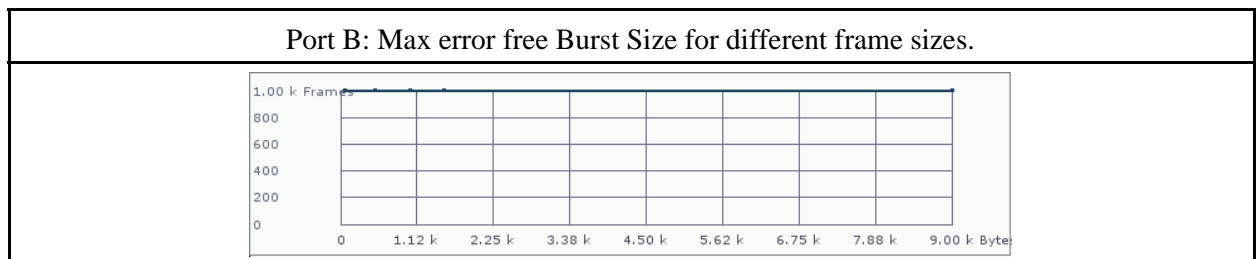
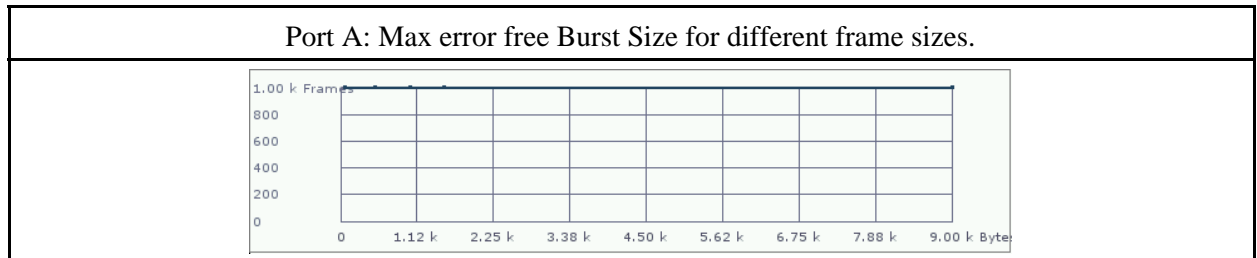
RFC2544 Throughput and Frame Loss Settings

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Traffic Settings	Port A	Port B
Frame Size Mode	User Defined	User Defined
Frame Sizes	64, 512, 1024, 1518, 9000.	64, 512, 1024, 1518, 9000.
Line Load Autosearch	No Auto Search	No Auto Search
Only run steps where other test passed	False	False
Line Load Minimum Mbps	900.0000 Mbps	900.0000 Mbps
Line Load Minimum percent	90.0000 %	90.0000 %
Line Load Maximum Mbps	1000.0000 Mbps	1000.0000 Mbps
Line Load Maximum percent	100.0000 %	100.0000 %
Line Load Step Mbps	50.0000 Mbps	50.0000 Mbps
Line Load Step Percent	5.0000 %	5.0000 %
Step Duration	300 second(s)	300 second(s)
Repeats	2	2

RFC2544: Burst Results

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Port A Tx				
Rep	Step	Total frames	Frame size (Bytes)	Burst size
1	100	60.000 k	9000	1000
1	99	54.000 k	9000	900
1	98	48.000 k	9000	800
1	97	42.000 k	9000	700
1	96	36.000 k	9000	600
1	95	30.000 k	9000	500
1	94	24.000 k	9000	400
1	93	18.000 k	9000	300
1	92	12.000 k	9000	200
1	91	6.000 k	9000	100
1	90	60.000 k	1518	1000
1	89	54.000 k	1518	900
1	88	48.000 k	1518	800
1	87	42.000 k	1518	700
2	136	34.800 k	1518	600
2	135	30.000 k	1518	500

2	134	24.000 k	1518	400
2	133	18.000 k	1518	300
2	132	12.000 k	1518	200
2	131	6.000 k	1518	100
2	130	60.000 k	1024	1000
2	129	54.000 k	1024	900
2	128	48.000 k	1024	800
2	127	42.000 k	1024	700
2	126	36.000 k	1024	600
2	125	30.000 k	1024	500
2	124	24.000 k	1024	400
2	123	18.000 k	1024	300
2	122	12.000 k	1024	200
2	121	6.000 k	1024	100
2	120	60.000 k	512	1000
2	119	54.000 k	512	900
2	118	48.000 k	512	800
2	117	42.000 k	512	700
2	116	36.000 k	512	600
2	115	30.000 k	512	500
2	114	24.000 k	512	400
2	113	18.000 k	512	300
2	112	12.000 k	512	200
2	111	6.000 k	512	100
2	110	60.000 k	64	1000
2	109	54.000 k	64	900
2	108	48.000 k	64	800
2	107	42.000 k	64	700
2	106	36.000 k	64	600
2	105	30.000 k	64	500
2	104	24.000 k	64	400
2	103	18.000 k	64	300

2	102	12.000 k	64	200
2	101	6.000 k	64	100

Port A Rx					
Rep	Step	Total frames	Frame size (Bytes)	Burst size	Frames lost(min/max/avg)
1	100	60.000 k	9000	1000	0/0/0
1	99	54.000 k	9000	900	0/0/0
1	98	48.000 k	9000	800	0/0/0
1	97	42.000 k	9000	700	0/0/0
1	96	36.000 k	9000	600	0/0/0
1	95	30.000 k	9000	500	0/0/0
1	94	24.000 k	9000	400	0/0/0
1	93	18.000 k	9000	300	0/0/0
1	92	12.000 k	9000	200	0/0/0
1	91	6.000 k	9000	100	0/0/0
1	90	60.000 k	1518	1000	0/0/0
1	89	54.000 k	1518	900	0/0/0
1	88	48.000 k	1518	800	0/0/0
1	87	42.000 k	1518	700	0/0/0
2	136	34.800 k	1518	600	0/0/0
2	135	30.000 k	1518	500	0/0/0
2	134	24.000 k	1518	400	0/0/0
2	133	18.000 k	1518	300	0/0/0
2	132	12.000 k	1518	200	0/0/0
2	131	6.000 k	1518	100	0/0/0
2	130	60.000 k	1024	1000	0/0/0
2	129	54.000 k	1024	900	0/0/0
2	128	48.000 k	1024	800	0/0/0
2	127	42.000 k	1024	700	0/0/0
2	126	36.000 k	1024	600	0/0/0
2	125	30.000 k	1024	500	0/0/0
2	124	24.000 k	1024	400	0/0/0

2	123	18.000 k	1024	300	0/0/0
2	122	12.000 k	1024	200	0/0/0
2	121	6.000 k	1024	100	0/0/0
2	120	60.000 k	512	1000	0/0/0
2	119	54.000 k	512	900	0/0/0
2	118	48.000 k	512	800	0/0/0
2	117	42.000 k	512	700	0/0/0
2	116	36.000 k	512	600	0/0/0
2	115	30.000 k	512	500	0/0/0
2	114	24.000 k	512	400	0/0/0
2	113	18.000 k	512	300	0/0/0
2	112	12.000 k	512	200	0/0/0
2	111	6.000 k	512	100	0/0/0
2	110	60.000 k	64	1000	0/0/0
2	109	54.000 k	64	900	0/0/0
2	108	48.000 k	64	800	0/0/0
2	107	42.000 k	64	700	0/0/0
2	106	36.000 k	64	600	0/0/0
2	105	30.000 k	64	500	0/0/0
2	104	24.000 k	64	400	0/0/0
2	103	18.000 k	64	300	0/0/0
2	102	12.000 k	64	200	0/0/0
2	101	6.000 k	64	100	0/0/0

Port B Tx				
Rep	Step	Total frames	Frame size (Bytes)	Burst size
1	100	60.000 k	9000	1000
1	99	54.000 k	9000	900
1	98	48.000 k	9000	800
1	97	42.000 k	9000	700
1	96	36.000 k	9000	600
1	95	30.000 k	9000	500

1	94	24.000 k	9000	400
1	93	18.000 k	9000	300
1	92	12.000 k	9000	200
1	91	6.000 k	9000	100
1	90	60.000 k	1518	1000
1	89	54.000 k	1518	900
1	88	48.000 k	1518	800
1	87	42.000 k	1518	700
2	136	34.800 k	1518	600
2	135	30.000 k	1518	500
2	134	24.000 k	1518	400
2	133	18.000 k	1518	300
2	132	12.000 k	1518	200
2	131	6.000 k	1518	100
2	130	60.000 k	1024	1000
2	129	54.000 k	1024	900
2	128	48.000 k	1024	800
2	127	42.000 k	1024	700
2	126	36.000 k	1024	600
2	125	30.000 k	1024	500
2	124	24.000 k	1024	400
2	123	18.000 k	1024	300
2	122	12.000 k	1024	200
2	121	6.000 k	1024	100
2	120	60.000 k	512	1000
2	119	54.000 k	512	900
2	118	48.000 k	512	800
2	117	42.000 k	512	700
2	116	36.000 k	512	600
2	115	30.000 k	512	500
2	114	24.000 k	512	400
2	113	18.000 k	512	300

2	112	12.000 k	512	200
2	111	6.000 k	512	100
2	110	60.000 k	64	1000
2	109	54.000 k	64	900
2	108	48.000 k	64	800
2	107	42.000 k	64	700
2	106	36.000 k	64	600
2	105	30.000 k	64	500
2	104	24.000 k	64	400
2	103	18.000 k	64	300
2	102	12.000 k	64	200
2	101	6.000 k	64	100

Port B Rx					
Rep	Step	Total frames	Frame size (Bytes)	Burst size	Frames lost(min/max/avg)
1	100	60.000 k	9000	1000	0/ 0/ 0
1	99	54.000 k	9000	900	0/ 0/ 0
1	98	48.000 k	9000	800	0/ 0/ 0
1	97	42.000 k	9000	700	0/ 0/ 0
1	96	36.000 k	9000	600	0/ 0/ 0
1	95	30.000 k	9000	500	0/ 0/ 0
1	94	24.000 k	9000	400	0/ 0/ 0
1	93	18.000 k	9000	300	0/ 0/ 0
1	92	12.000 k	9000	200	0/ 0/ 0
1	91	6.000 k	9000	100	0/ 0/ 0
1	90	60.000 k	1518	1000	0/ 0/ 0
1	89	54.000 k	1518	900	0/ 0/ 0
1	88	48.000 k	1518	800	0/ 0/ 0
1	87	42.000 k	1518	700	0/ 0/ 0
2	136	34.800 k	1518	600	0/ 0/ 0
2	135	30.000 k	1518	500	0/ 0/ 0
2	134	24.000 k	1518	400	0/ 0/ 0

2	133	18.000 k	1518	300	0/0/0
2	132	12.000 k	1518	200	0/0/0
2	131	6.000 k	1518	100	0/0/0
2	130	60.000 k	1024	1000	0/0/0
2	129	54.000 k	1024	900	0/0/0
2	128	48.000 k	1024	800	0/0/0
2	127	42.000 k	1024	700	0/0/0
2	126	36.000 k	1024	600	0/0/0
2	125	30.000 k	1024	500	0/0/0
2	124	24.000 k	1024	400	0/0/0
2	123	18.000 k	1024	300	0/0/0
2	122	12.000 k	1024	200	0/0/0
2	121	6.000 k	1024	100	0/0/0
2	120	60.000 k	512	1000	0/0/0
2	119	54.000 k	512	900	0/0/0
2	118	48.000 k	512	800	0/0/0
2	117	42.000 k	512	700	0/0/0
2	116	36.000 k	512	600	0/0/0
2	115	30.000 k	512	500	0/0/0
2	114	24.000 k	512	400	0/0/0
2	113	18.000 k	512	300	0/0/0
2	112	12.000 k	512	200	0/0/0
2	111	6.000 k	512	100	0/0/0
2	110	60.000 k	64	1000	0/0/0
2	109	54.000 k	64	900	0/0/0
2	108	48.000 k	64	800	0/0/0
2	107	42.000 k	64	700	0/0/0
2	106	36.000 k	64	600	0/0/0
2	105	30.000 k	64	500	0/0/0
2	104	24.000 k	64	400	0/0/0
2	103	18.000 k	64	300	0/0/0
2	102	12.000 k	64	200	0/0/0

2	101	6.000 k	64	100	0/0/0
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RFC2544 Burst Settings

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Traffic Settings	Port A	Port B
Frame Size Mode	User Defined	User Defined
Frame Sizes	64, 512, 1024, 1518, 9000.	64, 512, 1024, 1518, 9000.
Burst Length Mode	Stepped	Stepped
Burst Size	Start: 100 End: 1000 Step: 100	Start: 100 End: 1000 Step: 100
Step Duration	60 second(s)	60 second(s)
Repeats	2	2

Instrument Setup

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Instrument Info	
Instrument serial number	842609004
Software version	3.90
Software date	2010-04-23 12:00:13
Instrument date	2010-05-20 15:53:03

Port Control Setup		Port A – 1000FDX	
Port Control Mode		Monitor/Generate	
Port Mode Setup		Auto Negotiate	
Interface Type		Optical	
Auto Negotiation Advertisement		1000FDX	
1000 Mbps Specific Advertisement		Prefer Master	
Respond to PAUSE frame		Disabled	

Port Control Setup		Port B – 1000FDX	
Port Control Mode		Monitor/Generate	
Port Mode Setup		Auto Negotiate	
Interface Type		Optical	
Auto Negotiation Advertisement		1000FDX	
1000 Mbps Specific Advertisement		Prefer Master	
Respond to PAUSE frame		Disabled	

RFC2544 General Settings

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Test Setup	
Test Mode	Switch/Router Test
Selected Test(s)	Throughput and Frame Loss. Burst.
Throughput calculation layer selection	Physical layer (no preamble) (avg.)

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TX Frame Content	Port A, Stream 1
Ethernet	
Destination MAC address ARP Enabled	00-00-91-E0-0C-CC
Broadcast Share	0%
Source MAC address	00-00-91-E0-0B-CC
Ethertype	0x0800 (IPv4)
MPLS Disabled	
PWE3 Disabled	
VLAN Disabled	
LLC Disabled	
SNAP Disabled	
IPv4 Enabled	
Version, Header length:	4, 5 (20 bytes)
IPv4 TOS	0
Total Length	Variable
IPv4 Identifier	ABCD
Flags, Fragment Offset	MF: 0, DF: 1, RES: 0, Fragment Offset: 0
TTL	32
Protocol	fd
Checksum	Variable
Source IP address	192.168.1.107
Use DNS	Disabled
Destination IP address	192.168.1.105

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TX Frame Content	Port B, Stream 1
Ethernet	
Destination MAC address ARP Enabled	00-00-91-E0-0B-CC
Broadcast Share	0%
Source MAC address	00-00-91-E0-0C-CC
Ethertype	0x0800 (IPv4)
MPLS Disabled	
PWE3 Disabled	
VLAN Disabled	
LLC Disabled	
SNAP Disabled	
IPv4 Enabled	
Version, Header length:	4, 5 (20 bytes)
IPv4 TOS	0
Total Length	Variable
IPv4 Identifier	ABCD
Flags, Fragment Offset	MF: 0, DF: 1, RES: 0, Fragment Offset: 0
TTL	32
Protocol	fd
Checksum	Variable
Source IP address	192.168.1.105
Use DNS	Disabled
Destination IP address	192.168.1.107