

RFC 2544 Test Report

Report name 2019-09-30-121212
Customer
Department
Company
Location
Operator
Start Time Mon Sep 30 12:12:13 2019
Elapsed Time 00:24:09
Test Unit Ether.Genius Gigabit Ethernet Tester
Serial number MEG0004P
Software version 2.16.2

Global results

Status PASS
Completed 100 %

Test Unit Configuration

Mode Ethernet endpoint
Test method One-way (A > B)
Reference clock Internal
Oscillator type TCXO oscillator

	Port A	Port B
Port mode	TX/RX	Monitor
Connector	Electrical	Electrical
Encapsulation	Q-in-Q	
Source MAC address	00:DB:1E:00:03:06	
Destination MAC address	00:DB:1E:00:03:07	
Address range size	----	
C-VID	1	
C-VLAN priority	0	
S-VID	1	
S-VLAN priority	0	
DEI	----	

Performance objectives

Minimum throughput (%) 50.000
Maximum latency 10.000 ms
Maximum frame loss (%) 1.000
Minimum frame burst (fr) 1000
Maximum recovery time 10.000 ms

Throughput test

Frame sizes	Theor.max	Max.rate	Max.rate (%)	ETH max.rate	PHY max.rate	Status
64	1,488,095 fr/s	1,488,095 fr/s	100.000	761.905 Mb/s	1000.000 Mb/s	PASS
128	844,594 fr/s	844,594 fr/s	100.000	864.865 Mb/s	1000.000 Mb/s	PASS
256	452,898 fr/s	452,898 fr/s	100.000	927.536 Mb/s	1000.000 Mb/s	PASS
512	234,962 fr/s	234,962 fr/s	100.000	962.406 Mb/s	1000.000 Mb/s	PASS
1024	119,731 fr/s	119,731 fr/s	100.000	980.843 Mb/s	1000.000 Mb/s	PASS
1280	96,153 fr/s	96,153 fr/s	100.000	984.615 Mb/s	1000.000 Mb/s	PASS
1518	81,274 fr/s	81,274 fr/s	100.000	986.996 Mb/s	1000.000 Mb/s	PASS

Latency test

Frame sizes	Throughput (%)	Delay	Delay var.	Status
64	100.000	0.83 us	0.05 us	PASS
128	100.000	0.83 us	0.05 us	PASS
256	100.000	0.83 us	0.05 us	PASS
512	100.000	0.83 us	0.05 us	PASS
1024	100.000	0.83 us	0.05 us	PASS
1280	100.000	0.83 us	0.05 us	PASS
1518	100.000	0.83 us	0.05 us	PASS

Frame loss test

Throughput (%)	64	128	256	512	1024	1280	1518	----
100.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	---
90.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	---
	PASS	PASS	PASS	PASS	PASS	PASS	PASS	----

Back-to-back test

Frame sizes	Burst length (fr)	Status
64	3,000,000	PASS
128	3,000,000	PASS
256	3,000,000	PASS
512	3,000,000	PASS
1024	3,000,000	PASS
1280	3,000,000	PASS
1518	3,000,000	PASS

System recovery test

Frame sizes	Throughput (%)	Recovery time	Status
64	100.00	0.000 us	PASS
128	100.00	0.000 us	PASS
256	100.00	0.000 us	PASS
512	100.00	0.000 us	PASS
1024	100.00	0.000 us	PASS
1280	100.00	0.000 us	PASS
1518	100.00	0.000 us	PASS