

TeraRouting Tester™ Software Module RIP

Product Overview

The RIP routing protocol software module works together with all of the basic TeraRouting Tester (TRT) features such as the Flap Scheduler, Traffic Generator, and integrated results. This module emulates hundreds of RIPv1, RIPv2, or RIPng (IPv6) routers. Millions of routes can be generated from these virtual devices, and bi-directional traffic can be sent to/from the emulated routers. All tests can be conducted in a fully interactive mode with real-time results. Tests can also be automated using the comprehensive SmartBits Automation product.

RIP Router Emulation Features

- Per module: 500 RIP routers with multicast, or 1000 RIP routers with broadcast, or 500 RIPng routers
- Millions of routes
- Route Generator with Internet prefix length distribution
- VLAN IDs and priority per router
- Support for RIPv1, RIPv2, and RIPng
- Destination addresses: broadcast, multicast, and unicast
- Update interval
- Max jitter value
- Support for MD5 authentication
- Traffic wizard builds data streams to all of the emulated routes
- Support for Q-in-Q VLAN stacking

RIP Network Option

- Supports millions of routes
- Can copy/paste and duplicate one or more route blocks
- Prefix length
- Number of networks
- Start route IP address
- Increment value for IP address range
- Route tag
- Next hop
- Metric or hop count

RIP Flap Event

- Break physical link
- Restore physical link
- Stop updates (all or a set of routers)
- Resume updates (all or a set of routers)
- Withdraw networks (all or a set of routers)
- Re-advertise networks (all or a set of routers)

RIP Real-time and Final Result

- Router IP address
- Router state
- Received advertisements
- Sent advertisements
- Received withdrawals
- Sent withdrawals

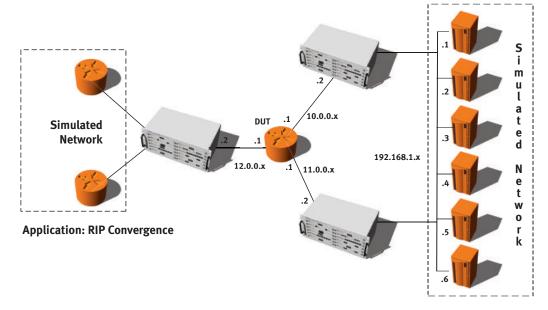
Related RFCs

- RFC 1058 –Describes RIP Version 1
- RFC 2453 -Describes RIP Version 2
- RFC 2080 -RIPng for IPv6

Spirent Communications 26750 Agoura Road Calabasas, CA 91302 USA E-mail: productinfo @spirentcom.com

Sales Contacts:
 North America
 +1 800-927-2660
Europe, Middle East,
 Africa
 +33-1-6137-2250
 Asia Pacific
 +852-2511-3822
All Other Regions
 +1 818-676-2683

www.spirentcom.com





Supported Modules

Module	Description
ATM-3451A	ATM OC-3c (STM-1c), 2-port, multi-
	mode, 1300nm, TeraMetrics
ATM-3451As	ATM OC-3c (STM-1c), 2-port, single
	mode, 1310nm, TeraMetrics
ATM-3453A	ATM OC-3c/OC-12c (STM-1c/STM-4c),
	2-port, multi-mode, 1300nm,
	TeraMetrics
ATM-3453As	ATM OC-3c/OC-12c (STM-1c/STM-4c),
	2-port, single mode, 1310nm,
	TeraMetrics
LAN-3301A	10/100/1000Base-T Ethernet,
	Copper, 2-port, TeraMetrics
LAN-3302A	10/100Base-T Ethernet, Copper,
	2-port, TeraMetrics
LAN-3306A	10/100Base-T Ethernet, Copper,
	4-port, TeraMetrics XD
LAN-3321A	10/100/1000 Mbps and Gigabit
	Ethernet Fiber, 2-port, TeraMetrics XD
LAN-3325A	10/100/1000 Mbps and Gigabit
	Ethernet Fiber, 4-port, TeraMetrics XD
LAN-3327A	10/100/1000 Mbps and Gigabit
	Ethernet Fiber, 1-port, TeraMetrics XD
POS-3505As	POS OC-48c (STM-16c), 1-port, single
200 0000	mode, 1310nm, TeraMetrics
POS-3505AR	POS OC-48c (STM-16c), 1-port, single
DOC 05444	mode, 1550nm, TeraMetrics
POS-3511A	POS OC-3c/OC-12c (STM-1c/STM-4c),
	2-port, multi-mode, 1300nm,
DOC 2544A-	TeraMetrics
POS-3511As	POS OC-3c/OC-12c (STM-1c/STM-4c),
	2-port, single mode, 1310nm,
POS-3519As	TeraMetrics POS OC-192c (STM-64c), 1-port,
PU3-3519AS	2-slot, single mode, 1310nm,
	Z-Stot, Single mode, 1510mm, TeraMetrics
POS-3519Ar	POS OC-192c (STM-64c), 1-port,
L03-33134K	2-slot, single mode, 1550nm,
	Z-Stot, Single mode, 1550mm, TeraMetrics
XFP-3731A	10GBase Ethernet, XFP MSA, 1-slot,
VIC.212TV	TeraMetrics
XLW-3721A	10GBase Ethernet, XENPAK MSA,
ALW JIZIA	1-port, 2-slot, TeraMetrics
	1-port, 2-stot, relaintetrics

Spirent Communications 26750 Agoura Road Calabasas, CA 91302 USA E-mail: productinfo @spirentcom.com

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Requirements

- TeraRouting Tester Software (SWF-1230A; comes with RIP)
- A SmartBits 600x or 6000x chassis, with the appropriate SmartBits modules.
- A Pentium[™] or greater PC running Windows[®] 2000/NT/XP, with mouse and color monitor

Ordering Information

SWF-1230A

TeraRouting Tester with RIP software module

SWF-1231A

OSPF software module for TRT

SWF-1232A

IS-IS software module for TRT

SWF-1233A

MPLS software module for TRT

SWF-1234A

BGP software module for TRT

SWF-1235A

IPv6 software module for TRT

SWF-1236A

Multicast software module for TRT

SWF-1237A

Spanning Tree (STP/RSTP) software module for TRT

SWF-1239A

All available software modules for TRT

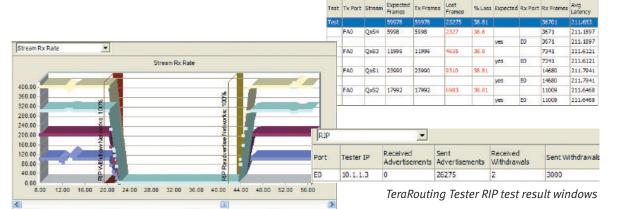
SWF-1255A

Tx/Rx Statistics

SmartBits Automation

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