



Spirent TestCenter™

APPLICATION PERFORMANCE MODULE

HIGH PERFORMANCE AVALANCHE LAYER 4-7 TEST SOLUTION

The performance of your network infrastructure, security systems and Web applications should be carefully tested to ensure that performance goals are met. The Application Performance Module for the Spirent TestCenter tests your network and applications at and beyond expected goals.

APPLICATIONS

- Triple Play Testing – Test the capacity of your network to handle new kinds of traffic by incorporating voice, video and data in a single test
- Security Testing and Vulnerability Assessment – Incorporate viruses in your email and introduce Denial of Service and other malicious content along with real traffic. Stop the attacks while letting good user traffic and content through with acceptable performance.
- Network Device Testing – A network is the lifeblood of an enterprise. Ensure your network devices are optimally tested at high loads.
- Web Application Testing – Is your online business ready for Black Friday? Will the Christmas traffic bring your Web site to its knees? Do not wait until then to find out. Use the Application Performance Module to test at and beyond expected loads. Make sure you are prepared ahead of time.



Heavy demands are placed on the network by the combination of voice, video and data traffic, creating new challenges for IT staff. Test beyond expected loads with the Spirent TestCenter Application Performance Module and ensure you are ready.

The Avalanche testing solution on the Application Performance Module quickly identifies potential points of failure by stress-testing the infrastructure. Large quantities of highly realistic simulated user and network traffic can be generated, re-creating a wide range of real-world loading scenarios.

BENEFITS

- *Industry Leading Performance* – The Application Performance Module is available in 1G and 10G models and resets the bar for high-end unencrypted and encrypted performance. With line rate 1 Gigabit and 10 Gigabit performance and more than 250,000 transactions per second of unencrypted traffic from a pair of cards and over 2 Gbps and 30,000 transactions per second on encrypted traffic, the Application Performance Modules provide the best performance Layer 4-7 and Vulnerability Assessment test solution in the industry.
- *Test with your unique mix of traffic* – With its unparalleled support for a wide variety of protocols, Spirent TestCenter enables you to test your networks and applications with your unique traffic mix. In addition, you can capture your custom applications and replay them using the Avalanche Solution on Spirent TestCenter.
- *Realistic user and network testing* – Testing with “clean” traffic does not provide an accurate simulation of the real world. Use Spirent TestCenter to introduce real effects like dropped packets, latencies, think times and click-aways to accurately forecast how your applications will perform in your production network.
- *Reduce time to test* – Built-in samples get you started with testing. Support for automation helps you repeat tests quickly.
- *One tool for most of your testing needs* – Test a range of devices including but not limited to firewalls, IDS/IPS systems, proxy and caching servers, URL and cache filters, traffic accelerators, mail and Web servers, IPSec and SSL VPN gateways, Windows and Real media servers.

KEY FEATURES

Network and user realism: Avalanche on Spirent TestCenter provides control over TCP/IP stack characteristics such as maximum segment size, delayed ACKs, IP fragmentation and TCP time-out behavior. Avalanche on Spirent TestCenter will also emulate browsers, decompress gzips, encode URLs and apply a whole set of realistic user level attributes.

High performance testing: Application performance modules provide industry leading and scalable unencrypted and encrypted traffic generation.

Unencrypted Bandwidth	Line Rate 1 Gbps and 10 Gbps
Unencrypted Sessions	250,000 per second per module pair
Encrypted Bandwidth	2 Gigabits per second
Encrypted Sessions	Greater than 70,000 per second per module pair

Extensive, flexible reporting: Avalanche on Spirent TestCenter provides real-time statistics for critical variables across all protocols. SNMP statistics can also be gathered from the components being tested and correlated with statistics from Spirent TestCenter.

Flexible load specifications: Avalanche on Spirent Test Center provides considerable flexibility to specify load variables such as user sessions, new user sessions per second, transactions, transactions per second, connections or connections per second.

Multi-protocol support: Avalanche on Spirent TestCenter for Application Performance Modules support supports all major protocols, including:

- HTTP 1.0/1.1
- HTTPS
- FTP
- Streaming media
- IPv6
- Voice (SIP)
- Mail (SMTP/POP3)
- DNS
- Telnet
- 802.1Q VLAN tagging
- IPSec
- PPPoE,
- 802.1x/NAC
- RTMP
- CIFS

Technical Specifications

Dimensions	Overall: 10.75" W x 14" D x 1.41" H Board size: 9.25" W x 13.5" D
Network Interfaces	CPU-5002A - Dual Media 10/100/1000 Base-T copper interfaces and SFP fiber interfaces CPU-5003A - Dual 10Gigabit XFP fiber interfaces
Power Requirements	190W
Weight	4 lbs. 4 oz.
Chassis Operating Environment	15 – 35° C
Relative Humidity	20-80% relative humidity, non-condensing

REQUIREMENTS

The PC on which you are installing the Spirent TestCenter software should meet these specifications:

- Pentium® 1.1 GHz or above
- Windows® 2000 or XP Professional Edition
- Minimum of 512 MB of RAM and 150 MB of free hard disk space
- PC with an Ethernet interface card to set up the chassis IP address

Ordering Information

	Description	Comments
KIT-1025	8-PORT 1G DUAL MEDIA COPPER/FIBER APPLICATION PERFORMANCE MODULE W/AVALANCHE CLIENT/SERVER SW	Base system client/server software (HTTP, FTP, TELNET, DNS) plus one dual media 1G Application Performance Module
KIT-1027	2-PORT 10G XFP FIBER APPLICATION PERFORMANCE MODULE W/AVALANCHE CLIENT SERVER SW	Base system client/server software (HTTP, FTP, TELNET, DNS) plus one 10G Application Performance Module

SPIRENT GLOBAL SERVICES

Spirent Global Services provides a variety of professional services, support services and education services — all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services' website at www.spirentcom.com/gs or contact your Spirent sales representative.



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