

SonicWALL SSL-R and SSL-RX

High Performance Commercial Application Accelerators

Whether it's brief exchanges of username, password and credit card information, or long-lived sessions containing financial accounts or medical records, most Web sites today involve the transmission of sensitive data. While Secure Sockets Layer (SSL) transparently provides security to clients from any Web-browser, the cryptography and processing of SSL transactions puts a heavy burden on Web server resources, resulting in sluggish performance, reduced productivity, and lost customers.

SonicWALL's SSL Offloaders dramatically increase the performance of mission-critical applications and Web sites by completely and transparently offloading the burden of SSL encryption, decryption and secure processes from servers. Installing easily into any production network, SonicWALL SSL Offloaders free up valuable server resources while delivering unmatched security and scalability at a fraction of the cost compared to other solutions.

Designed for the demanding needs of production networks, the SonicWALL SSL-R and SonicWALL SSL-RX integrate seamlessly with Layer 4 load balancers and Layer 5-7 content switches to enable secure and intelligent content networking while maximizing resources, security, and performance. And with support for up to 4,400 peak RSA operations and 30,000 concurrent sessions, the SonicWALL SSL-RX delivers industry-leading price/performance with the most advanced features available today.

SonicWALL SSL Offloaders guarantee end-to-end security with advanced features such as back-end encryption, SSL initiation, and SSL aggregation. And only SonicWALL offers Secure URL Rewrite, the industry's only complete solution to the problem of data exposure inherent in offloaded applications.

SonicWALL SSL Offloaders are an integral part of any application infrastructure that needs to accelerate performance and scale traffic, without the expense and headache of additional servers. Maximize existing resources with SonicWALL's cost-effective, high performance SSL Offloaders, and increase the performance, scalability, security and manageability of high-traffic Web sites now.



SonicWALL SSL-R & SonicWALL SSL-RX

SECURITY

- Firewall
- VPN
- Anti-Virus
- Content Filtering
- Vulnerability Scan
- Authentication
- > SSL Acceleration

- *Rack-mount high performance SSL Offloaders with end-to-end security.*
- *Accelerate secure Web-based applications such as Oracle, SAP, Siebel, PeopleSoft.*
- *Seamless integration with load balancers and content switches for scalable secure content networking.*



SSL-R



SSL-R3



SSL-R6



SSL-RX

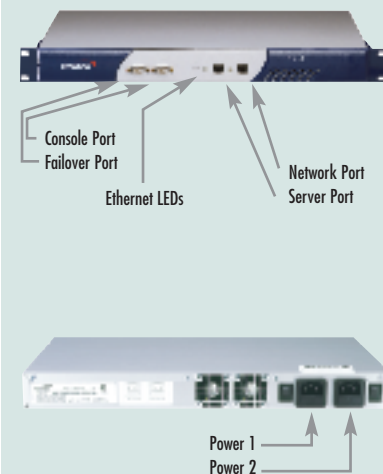
SECURITY

SonicWALL SSL-R and SonicWALL SSL-RX

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SonicWALL SSL-R and SonicWALL SSL-RX Features and Benefits

- **Cost Effective.** Industry-leading price/performance for offloading SSL transactions at a fraction of the cost of deploying additional HTTPS servers.
- **High Performance.** The SonicWALL SSL-R supports up to 200 RSA operations per second and up to 5,000 concurrent connections. The SonicWALL SSL-RX supports up to 4,400 peak RSA operations per second and up to 30,000 concurrent connections.
- **Enables Secure Content Delivery.** Integrates seamlessly with Layer 4 load balancers and Layer 5-7 content switches to enable load balancing and content inspection of secure traffic, maximizing network resources, reliability, and Web site efficiency.
- **Certificate and Key Management.** Centralized management of keys and certificates reduces administrative overhead and simplifies complex SSL setup and maintenance. The SonicWALL SSL-R manages up to 255 keys and certificates, while the SonicWALL SSL-RX manages up to 4,095 keys and certificates.
- **Reliability.** Solid-state appliances with no moving parts and redundant power supplies for maximum reliability, rated at over 350,000 hours MTBF. Multiple SonicWALL SSL Offloaders can be combined to create high-availability for SSL transaction processing, ensuring access to mission-critical secure servers and data.
- **Back-End Encryption.** Initiate SSL sessions to an SSL termination point on another device, creating end-to-end security while still allowing the content switch to make routing decisions. Pipelined processing provides the most efficient offloading performance ever.
- **Secure URL Rewrite.** Eliminate potential exposure of sensitive client data and fix incorrect redirects before they are sent to the client, without modifying Web-enabled applications. Only SonicWALL solves the problem of exposed data, guaranteeing the security of every session.
- **SSL Aggregation.** End-to-end security for all SSL transactions at a fraction of the overhead normally associated with establishing multiple connections, guaranteeing no clear text for highly secure environments.
- **Hardware Ciphers and Random Number Generation.** SonicWALL SSL-RX uses dedicated hardware to accelerate not only RSA operations, but all cryptographic functions including symmetric ciphers, message digests, and random number generation.



SonicWALL SSL-R and SonicWALL SSL-RX Product Part Numbers

01-SSC-5120 SonicWALL SSL-R - US/Canada
01-SSC-5122 SonicWALL SSL-R - International

01-SSC-5231 SonicWALL SSL-RX - US/Canada
01-SSC-5232 SonicWALL SSL-RX - High Availability Bundle
US/Canada

01-SSC-5233 SonicWALL SSL-RX - International
01-SSC-5234 SonicWALL SSL-RX - High Availability Bundle
International

SonicWALL SSL-R and SonicWALL SSL-RX Technical Specifications

SSL Transaction Metrics

SSL-R: Peak RSA: 200
Concurrent: 5,000
Session Cache: 75,000
SSL-RX: Peak RSA: 4,400
Concurrent: 30,000
Session Cache: 300,000

Standards

IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Fast Ethernet

Data Transfer Rates

Ethernet	10Mbps (half duplex)
	20Mbps (full duplex)
Fast Ethernet	100Mbps (half duplex)
	200Mbps (full duplex)

Protocols

CSMA/CD Ethernet

Public Key Cryptography Algorithms

RSA—512
RSA—1024
RSA—2048

Encryption Algorithms

3DES	ARC4
DES	ARC2

Hash Algorithms

SHA1
MD5

Network Cabling

Cable Type: UTP Category 5 (100m)
Connector Type: RJ-45

Processor

SSL-R: 250 MHz PPC 8240
SSL-RX: 600MHz IBM 750CXE

Memory

SSL-R: 64 MB RAM; 16 MB Flash ROM
SSL-RX: 256 MB RAM; 16 MB Flash ROM

Regulatory Compliance

FCC Class A; CISPR-22-A; VCCI-A; CSA and CE
Compliant to: EN55022 Class A, EN55024, EN50082-1, EN60950

SonicWALL SSL-R and SonicWALL SSL-RX Physical and Environmental Specifications

Dimensions

Depth: 10 in Height: 1U (1.75 in) Width: 19 in (with mountings)
Depth: 25.4 cm Height: 1U (4.44 cm) Width: 48.26 cm (with mountings)

Weight

6 lbs. (2.7 kg)

Port Description

Network Ports: (2) 10/100Base TX
Console Port: DB9 Serial Port
Reset Switch: Push to reset hardware. Configuration data maintained.

Environmental Operating Range

Temperature: 0° to 40° C (32° to 104° F)
Humidity: 10 to 85% non-condensing
Altitude: Up to 3,048 meters (10,000 ft)

Power Requirements

Operating Voltage: 100-240 VAC, 50-60Hz; 1.0A
Consumption: SSL-R = 20W, SSL-RX = 20W
Power Supply: (2) Internal redundant power supplies

More information on SonicWALL's SSL solutions and products is available on our Web site at <http://www.sonicwall.com/products/trans.asp>

Training information on these and other SonicWALL products and services can be found on our Web site at <http://www.sonicwall.com/products/training/> or by contacting us at training@sonicwall.com

