

DATASHEET

PRODUCT SNAPSHOT

- 10 mbps full-duplex wire speed data security
- Continuous Mutual Authentication and Security using RPM.
- Layer 2, Layer 3, and Layer 4 modes of protection.
- Preserves VLAN and MPLS tags.
- Dynamic key exchange for both Authentication and Encryption
- No key is ever reused and no key is sent in the transaction.
- 128 or 256 AES encryption
- FIPS 140-2 (Level 1) Compliant Cryptography (optional)

FEATURES AND BENEFITS

Modes of Operation:

- Ethernet layer (Layer 2)
- IP layer (Layer 3)
- Secure Multicast content delivery (optional)
- Scalable to any size network

ENHANCED SECURITY

Continuous mutual authentication and dynamic key exchange of every transaction with RPM

CONTACT INFORMATION

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Relevant Security Introduces RS 10

Relevant Security introduces RS 10 a series of next generation high-security network appliances utilizing patented RPM™ technology to create the most secure network for the transmission of data, voice, and video on the market. Relevant Security provides transaction level security; *Authenticating And Encrypting Every Transmission, Every Time, On Any Device, On Any Network.*

The RS 10 Network Appliance provides continuous, mutual authentication utilizing 128 or 256 bit AES encryption between the appliances at the transmission level allowing users to know for certain their data is secure while in motion. RS 10 provides the strongest security solution for data in transit on the market by the effective combination of continuous, mutual authentication between devices; encryption of every transmission; dynamically changing authentication and encryption keys of every transaction, all without transmission of security keys.

All Relevant Security appliances support the option of High Availability (HA) configurations through VRRP to ensure maximum uptime. The Revolution Secure appliance can adapt to your network environment as well as easily scale to any changes in the current network topology while providing the highest-grade security in the market.

Combining the flexibility and scalability of bitOS™ and RPM technology, Relevant Security has developed a security network appliance which not only revolutionizes network security but allows for the secure management and provisioning of services and applications for converged networks.

DATASHEET

Features and Benefits

- Authenticates and encrypts every transmission, on the network – providing enhanced security compared to traditional technologies
- RPM Algorithms supports the speeds required to provide transaction level encryption – providing greater authentication and security
- Provides comprehensive oversight of converged networks, including provisioning, configuration and management of network applications – all through a single, easy-to-use GUI
- Sets a new standard for scalability by utilizing small code size and superior computational efficiency, which overcomes the performance and security limitations of other technologies supporting transaction level security

Feature Grid

Feature	Description	Benefit
RPM Mutually Authenticated Encryption	Each transaction is mutually authenticated at both end points and encrypted with a new AES key.	Maximum security No authentication or encryption key is ever re-used
FIPS 140-2 (Level-1) Compliant mode	Enhance network security with FIPS compliant modes of operation.	Compliance with the highly secure FIPS 140-2 standard for sensitive data
Data link layer (Layer 2) protection	Create a secure network bridge	Compatibility with NetBIOS networks Simplified configuration
IP (Layer 3) protection	Create a secured point-to-point or point-to-multipoint link	Scalability and Performance Granular control of traffic flow through IP firewall rules
Static Session Key encryption mode	Single session key for point-to-point link management	Simplified configuration Point-to-point link
TLS Handshake mode	RSA used for point-to-multipoint links	Session management key (from which the AES key is derived) is changed once per hour for even greater security Multi-user/multi-site on a single server interface FIPS 140-2 Compliant mode available
Simplified Key Management	Keys generated and controlled from appliance	Static Key or RSA/TLS modes

Technical Specifications

Encryption Support:

- AES 128 and 256 CBC mode
- FIPS 140-2 (level-1) cryptography module - option

Authentication:

- RPM Continuous mutual authentication
- RSA for secure session key management (required for FIPS mode)

Device Management:

- Out of band, Secure (TLS) management GUI
- Remote Monitoring and Upgrades using RS 10 Management Server
- SNMPv2 support

Performance

- Up to 10 mbps full duplex authenticated and encrypted throughput

Network Support

- Ethernet
- VLAN and MPLS tag preservation
- IPv4

Link modes:

- Ethernet (layer 2) bridged tunnel mode
- IP (layer 3) point-to-point and point-to-multipoint links
- Multicast content delivery application

Data Interfaces

- Three 10 mbps RJ45 Ethernet ports

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