

SafeNet Ethernet Encryptor 10G

Protecting High-Speed Layer-2 Networks at 10Gbps

Financial institutions, government agencies, and telecommunications companies transmit large volumes of sensitive data over high-speed Ethernet WANs that connect offices and data centers with disaster recovery sites. The consolidation of datacenters and rise of bandwidth intensive applications such as voice, video, virtualization, and cloud computing, and the consolidation of datacenters are causing exploding data volumes transmitted over ultra high-speed wide area networks. Because of its high overhead and other technical limitations, traditional router-based encryption often does not scale cost-efficiently to the levels of throughput required to protect data sent over such high-bandwidth networks.

Eliminate Cost & Complexity

SafeNet network encryption solutions provide easy to deploy protection for data transmitted to disaster recovery sites and offsite data storage facilities while preserving full network performance, RPO/RTO (recovery point objective/recovery time objective) and service level agreements.

In the current economic environment, companies are looking to cut cost and complexity of compliance. Instead of purchasing costly bandwidth upgrades with high monthly recurring charges, companies deploy the Ethernet encryptor in place of their legacy IPsec encryption and effectively double their available bandwidth in addition to the 10 fold latency improvement.

Through central policy management, SafeNet further eliminates cost. SafeNet's Network Security Management Center allows network administrators to centrally configure, monitor and manage network encryption policy from a single web-based console. It helps companies define granular security policies that can be distributed across multiple devices, thereby not only lowering policy management cost but also easily generating data security audit trails to meet compliance auditing requirements. SafeNet's purpose-built appliances easily integrate into existing networks in a matter of minutes. In contrast to traditional IPsec routers, there are no error-prone, complex routing



tables to configure and maintain, thereby reducing maintenance cost and opportunities for misconfiguration. Once installed, SafeNet WAN encryptors require virtually no ongoing configuration and maintenance.

Proven Compliance through Layer 2 Encryption

An increasing number of legislative and industry mandates such as Sarbanes Oxley, PCI-DSS, State Privacy Laws and HIPAA require the protection of sensitive data in transit. By encrypting sensitive data at the network link layer (layer 2), companies ensure robust compliance with mandates because all data traversing the network is encrypted without exception, thereby dramatically reducing proof requirements and cost of compliance efforts.

Best-in-class Ethernet Encryption

The SafeNet Ethernet Encryptor 10G, provides unparalleled performance, encrypting 10Gbps Ethernet links at line rate full-duplex with virtually no latency. Using AES-256, the industry standard for strong encryption, all Layer-2 payload data including IP addresses and higher level protocols are protected.

X. 509 certificates are employed for remote device authentication and secure key exchange. The SafeNet Ethernet Encryptor 10G is designed to the strictest security standards including FIPS 140-2, Level 3 and Common Criteria EAL 4, making it the standard for network encryption at leading financial institutions and for governments worldwide.

Key Features

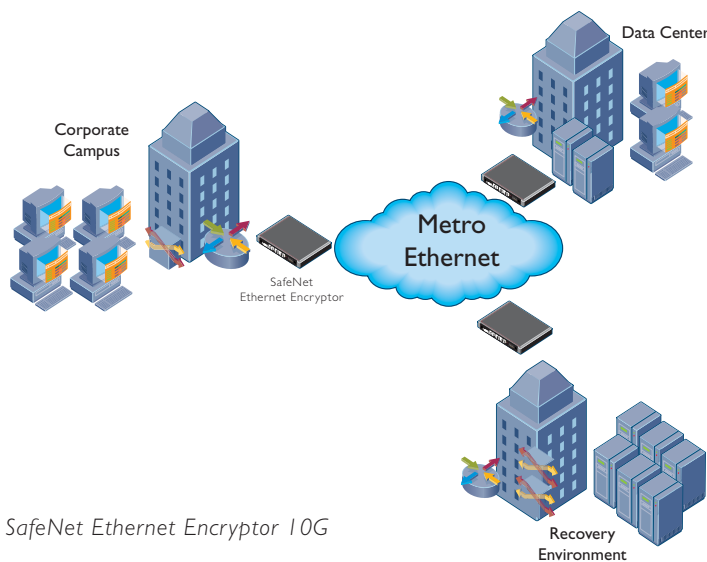
Eliminate cost and complexity of WAN security

Proven Compliance for data in transit

Most secure layer 2 encryption

Maximum bandwidth efficiency





SafeNet Ethernet Encryptor 10G

Most Secure Layer 2 Encryption Solution

The SafeNet Ethernet Encryptor 10G provides a complete network security solution that enables companies to utilize all available network bandwidth and eliminate complex administration. Designed to overcome the technological limitations of IPsec, the SafeNet Ethernet Encryptor moves sensitive data faster and more efficiently at network layer 2, thereby lowering the cost of network security and compliance.

Complete Portfolio of Encryptors

SafeNet's complete family of high-speed network encryptors for all network protocols provide the fastest and easiest way to integrate robust network security to protect mission-critical data for Enterprise and Government organizations. Multi-Gigabit throughput and lowest latency make SafeNet's encryptors the ideal solution for protecting massive amounts of data in motion, including time-sensitive voice and video streams. With solutions for Ethernet, SONET, TMD, ATM, Frame Relay and IP encryption, SafeNet offers the world's only complete suite of high-speed WAN encryption for every topology, performance range and network design requirement.

Enterprise Data Protection

SafeNet Network Encryptors are a key component of SafeNet's comprehensive enterprise data protection solution to reduce the cost and complexity of regulatory compliance, data privacy, and information risk management. SafeNet Enterprise Data Protection (EDP) is the only complete solution that secures data across the connected enterprise, from core to edge, with 360-degree protection of data at rest, data in transit, and data in use. Unlike disparate, multi-vendor point solutions that can create limited "islands" of security, SafeNet EDP provides an integrated security platform with centralized policy management and reporting for seamless management of encrypted data across databases, applications, networks, and endpoint devices. For more information, visit www.safenet-inc.com/EDP

Technical Specifications

Management

- Out-of-band Ethernet port
- SNMP v3
- RS-232 local console
- In-band management

LED Status Indicator

- Local interface
- Network interface
- Temperature
- Battery level
- System operation
- Secure status
- Power
- LEDs for interface Tx/Rx

Physical Security

- Tamper-proof storage of encryption keys and user passwords
- Tamper-resistant metal case

Environmental

- 5° to 40°C operating temperature
- 0 to 80% RH @ 40°C operating temperature
- 0 to 1980m operating altitude AMSL

Electrical

- Dual -48VDC, 40W maximum
- Dual 90VAC to 250VAC, 110W maximum (external module)

Mechanical

- Height - 134mm (3RU)
- Width - 435mm (19" rack mountable)
- Depth - 360mm
- Weight - 8kg

Cryptography

- AES algorithm - 256-bit key
- SHA-256
- HMAC-SHA-256

Key Management

- RSA 2048-bit public key
- Automatic session key update
- Authentication using X.509 certificates

Regulatory Standards

- RoHS-5
- Meets regulatory standards for emissions and safety including FCC Part 15 Class B, TUV, and CE marks.



www.safenet-inc.com

Corporate Headquarters:

4690 Millennium Drive, Belcamp, Maryland 21017 USA
Tel.: +1 410 931 7500 or 800 533 3958, Fax: +1 410 931 7524,
Email: info@safenet-inc.com

EMEA Headquarters:

Tel.: +44 (0) 1276 608 000, Email: info.emea@safenet-inc.com

APAC Headquarters:

Tel.: +852 3157 7111, Email: info.apac@safenet-inc.com

For all office locations and contact information, please visit
www.safenet-inc.com/company/contact.asp

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