

# SafeEnterprise Ethernet Encryptor

## PRODUCT BRIEF

### Key Features

- Full-duplex line rate AES encryption at layer 2 for 10Mbps, FastEthernet (100Mbps), and Gigabit
- Standards-based authentication, digital certificates, and key management
- Bump-in-the-wire design for easy installation into existing network environments
- Designed to international Common Criteria and U.S. Government FIPS security standards
- Part of world's first complete family of High-Speed Encryption devices for network security interface independence
- Central remote configuration, monitoring, and management through SafeEnterprise Security Management Center (SMC)

For 10Mbps, Fast Ethernet, and Gigabit Ethernet.

The cost of network communications bandwidth has decreased significantly in recent years. Enterprises are now able to link corporate and regional offices, server farms, data centers, and disaster recovery centers across floors or across continents with multi-megabit or even gigabit lines at a fraction of the cost they were paying before.

With more and more enterprises relying on high-speed communications to connect critical network infrastructures in support of business continuity, a single disruption or malicious attack against these services can cause businesses to lose millions of dollars while incurring significant legal liability.

As long as critical data must traverse multiple carriers and multiple network nodes before arriving at its final destination, CIOs must ensure that sensitive information is protected from compromise by using the strongest encryption schemes available, without compromising network performance.

What's more, even if data is traversing a truly private network it is still susceptible to theft because fiber lines can be tapped, without even breaking the sheathing, with inexpensive equipment.

Metro Ethernet has emerged as the new transport technology designed to provide greater bandwidth efficiency, and ease of installation and use for end users and network operators. The line of SafeNet SafeEnterprise™ Ethernet Encryptors are highperformance Layer 2 security appliances. They protect 10Mbps, 100Mbps and GbE networks. With seamless end-to-end integration, SafeEnterprise Ethernet Encryptors deliver instant protection across the network.

Like all SafeNet high-speed security appliances, the SafeEnterprise Ethernet Encryptor is managed by the SafeEnterprise Security Management Center (SMC), a robust, Java™-based policy management software application with secure, flexible, and transparent SNMP-based control and monitoring capabilities. The SMC provides the ability to define integrated security policies that can be centrally and remotely distributed across multiple devices, reducing management complexity and cost.

## Technical Specifications

### SMC Management

- SNMP v3
- Ethernet 10/100, RJ-45
- RS-232 local console
- In-band management

### LCD 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

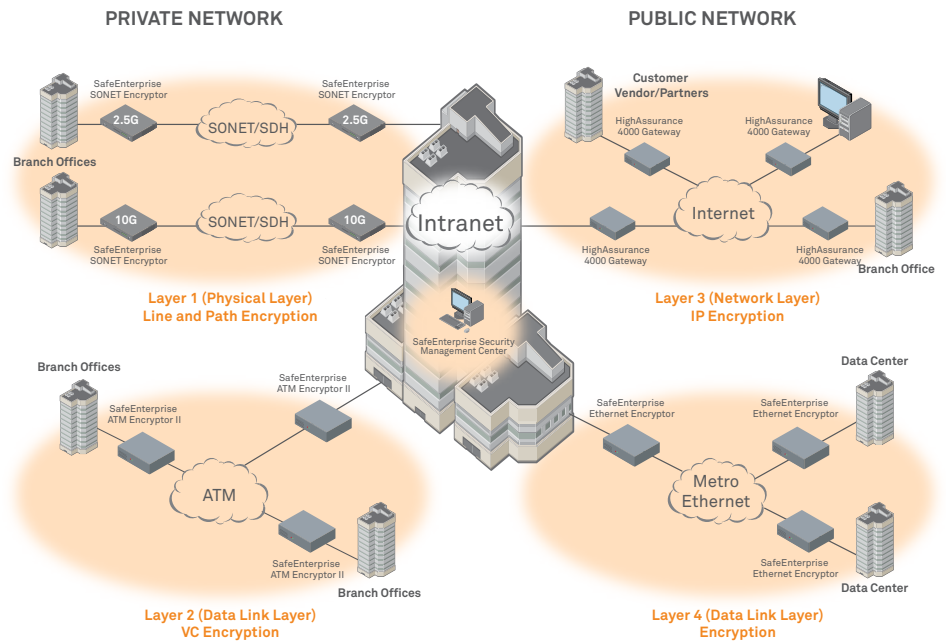
- 5° to 40°C operating temperature
- 0 to 80% RH @ 40°C operating temperature
- 0 to 1980m operating altitude AMSL

### Electrical

- 90VAC to 250VAC, 110W maximum, 47–63Hz
- –48VDC, 40W maximum

### Mechanical

- Height - 41mm (1RU)
- Width - 435mm (19" rack mountable)
- Depth - 285mm
- Weight - 4.5kg



## Performance

- Full-duplex operation at line speed with no packet loss for all modes of operation
- Cut-through data streaming for low latency vs. store and forward architectures
- Key change without interruption

## MAC Address Scaling

- GbE - up to 10,000 MAC addresses supported
- 100Mbps - up to 10,000 MAC addresses supported
- 10Mbps - up to 200 MAC addresses supported

## Network

- Ethernet II, IEEE 802.3
- Jumbo frame support
- VLAN, MPLS transparency

## Interfaces

- SFP fiber modules (Multi-mode: 850nm, Single-mode: 1310nm)
- SFP electrical modules

## Cryptography

- AES algorithm - 256-bit key
- CFB providing automatic crypto resynchronization

## Audit

- Alarms
- Interface status
- Event Log
- Audit Log
- Date and time of secure connection
- Configuration changes

## Key Management

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

## Accreditations

- FIPS PUB 140-2, Level 3
- RoHS-5
- Common Criteria EAL 4 in process

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