

## Key Features

- Supports clock speeds up to 52 Mbps
  - AES or Triple-DES encryption algorithms
- Fully automatic Diffie-Hellman public key management
  - Digital Certificates and Digital Signature Standard for strong authentication
- Meets national and international regulatory compliances
- Designed to FIPS 140-2, Level 3
- Complete management through SafeNet's SNMP-based SafeEnterprise™ Security Management Center
- Meets Frame Relay Forum FRF.1 and FRF.3 (RFC 1490) standards

# SafeEnterprise Frame Encryptor

*High-Speed High-Level Security  
For Frame Relay Networks*

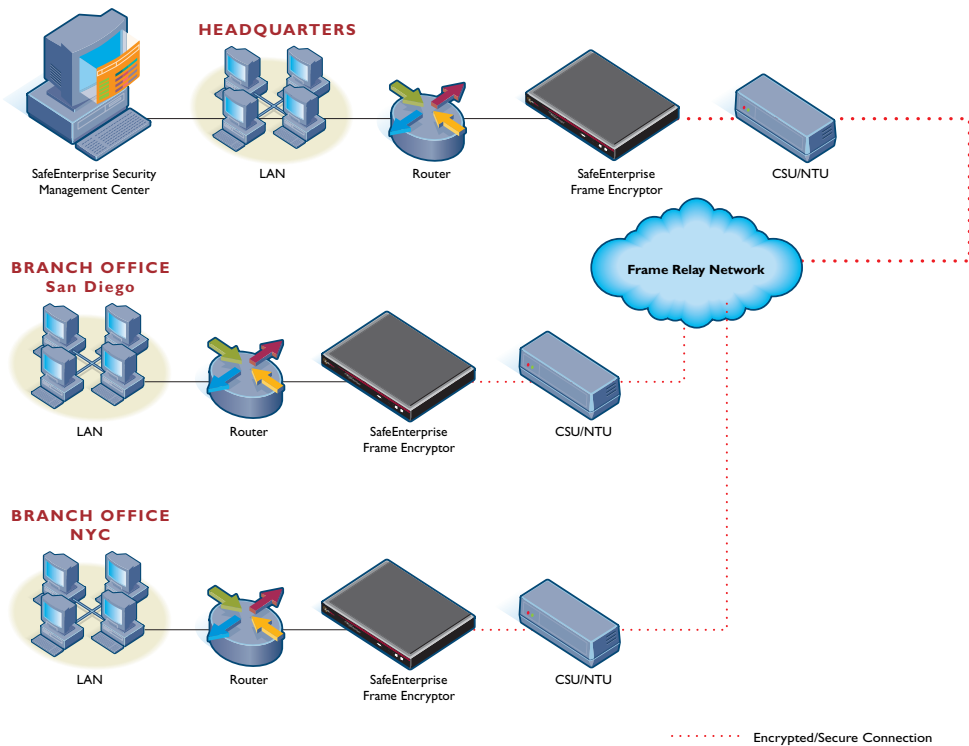


The SafeNet SafeEnterprise™ Frame Encryptor provides the highest level of security for frame relay networks at clock speeds up to 52 Mbps, and is scalable across a wide range of networks and applications. Business organizations and government entities rely on robust and proven technologies such as frame relay to transport and secure mission critical data. The SafeEnterprise Frame Encryptor family of products meets these needs by providing the widest range of frame encryption solutions available in the market today.

The SafeEnterprise Frame Encryptor supports up to 992 simultaneous crypto sessions. To ensure maximum security, different encryption keys are used for each virtual circuit or DLCI. Each Frame Encryptor positively identifies other Frame Encryptor units and will not accept frames from unauthorized sources. Once a connection is established, data is encrypted as it flows between nodes. As a dedicated standalone hardware encryption device, the

SafeEnterprise Frame Encryptor offers the strongest security, as well as ease of management, and upgradeability. High performance is achieved by encrypting only data portions of network traffic. The header information is left intact, enabling traffic to flow over any private or public frame relay network.

The SafeEnterprise Frame Encryptor is securely managed and configured by SafeEnterprise™ Security Management Center, an SNMP-based management system. SafeEnterprise Security Management Center provides full remote administration of all Frame Encryptor units on the network. The SafeEnterprise Frame Encryptor is also fully compatible with its predecessor, SafeNet's SecureFrame Unit (SFU).



..... Encrypted/Secure Connection

## Authentication

- Device to device
- Manager to device
- DSS digital certificates

## Encryption

- AES algorithm (192 bit keys)
- Triple-DES or DES algorithm (168-bit keys, ANSI x9.52, FIPS 46-3)
- Self-synchronizing, cipher feedback encryption mode
- Triple-DES, 64-bit cipher feedback encryption mode
- Pipeline TDES (PTDES) CFB-64

## Regulatory

- FCC Class A (U.S.)
- EN50082-1
- EN55022 Class B
- EN60950
- UL and UL-C Approved
- FIPS 140-2, Level 3

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Distributors and resellers  
 located worldwide.

## Technical Specifications

### Hardware Interfaces

- V.35 (data communications)
- X.21 (data communications)
- IEEE 802.3 Ethernet (remote configuration and management)
- RS-232 menu-driven interface (local configuration and diagnostics from a PC)
- HSSI (data communications)

### SafeEnterprise Security Management Center

- Secure SNMP-based management
- Installation and certification
- Configuration and security management
- Performance monitoring
- Secure download of software updates

### Clock Speed

- Up to 256 Kbps (SFE-L)
- Up to 8 Mbps (SFE-H)
- Up to 52 Mbps (SFE-HSSI)

### Physical Security

- Tamper-proof storage for cryptographic information
- Tamper-resistant, extruded/sheet metal construction

### Electrical/Mechanical

- Long-life lithium battery for memory protection
- SFE-L/H
  - 2.15" x 17"W x 10.65" D (5.4cm x 43cm x 27cm)
  - 5 lbs (2.3 kg) weight
  - 100-240 VAC, 50/60 Hz autoranging
  - 18 Watts power dissipation (typical)
- SFE-HSSI
  - 2.15" x 17"W x 10.65" D (5.4cm x 43cm x 27cm)
  - 6.1 lbs (2.7 kg) weight
  - 100-240 VAC 50/60 autoranging
  - 23.1 watts power dissipation (typical) Environmental
  - (32° to 104°F) 0° to 40° C operating temperature
  - Up to 90% operating humidity (non-condensing)
  - -200 to 6,500 feet AMSL operating altitude

