

SafeNet High Speed Encryptors for Education



SafeNet High Speed Encryptors are hardware-based, stand-alone appliances that deliver robust encryption and FIPS 140-2 Level 3 tamper-resistant key management capabilities. Rigorously tested and certified to be in compliance with the requirements of Common Criteria and the Federal Information Processing Standard (FIPS), the solutions have been vetted by such organizations as the Defense Information Systems Agency (DISA UC APL) and NATO. In addition, SafeNet High Speed Encryption solutions are the first and only commercial solutions that combine traffic flow security (TFS) with Layer 2 Ethernet encryption, making traffic patterns and characteristics impervious to exposure through network traffic analysis.

SafeNet High Speed Encryption solutions encrypt network traffic using the robust AES-256 algorithm (CFB, CTR, GCM) and supports Suite B cryptographic algorithms for encryption, key exchange, digital signature, and hashing, including Elliptic Curve Digital Signature Algorithm (ECDSA), Elliptic Curve Diffie-Hellman (ECDH) and SHA-256/SHA-384/SHA-512). Using NIST certified random number generators, SafeNet High Speed Encryptor keys are generated and stored in hardware, ensuring that the keys are always under your control, even in multitenant environments.

Interconnecting Campuses and Buildings

University networks can span multiple site buildings and campuses. With SafeNet High Speed Encryption solutions, there are several deployment options to fit specific needs and objectives. The encryptors can be used in single locations and in complex environments that span multiple locations. Administrators can manage these encryptors directly using a command line interface to integrate into an existing environment or they can leverage management solutions that enable central, efficient, and secure administration of any number of SafeNet High Speed Encryptors. Plus, the management software can function as a certificate authority for X.509 certificates.

SafeNet High Speed Encryptors

Thales offers a range of SafeNet High Speed Network Encryptors to ensure the right mix of features and capabilities tailored to your needs and budget. The products in our portfolio are fully interoperable, so a single platform can be used to centrally manage encryptors across single customer links or distributed networks. Each of the encryptors offered can support up to 512 concurrent encrypted connections. Hardware encryptors are certified for FIPS 140-2 Level 3 and Common Criteria EAL+2.

SafeNet HSE Portfolio at a Glance

- SafeNet Ethernet Encryptor CN9000 Series Delivering 100,000,000,000 bits per second of high assurance and ultra-low latency, the CN9000 Series provides mega data security (100 Gbps) and high speed network performance with the lowest latency in the industry (<2µs).
- SafeNet Ethernet Encryptor CN6000 Series Addressing the security and performance demands of the largest, most performance-intensive environments, including those of enterprises, government agencies, and service providers, the CN6000 Series encryptors offers variable-speed licenses up to 10 Gbps.
- SafeNet Ethernet Encryptor CN4000 Series Versatile and compact, entry-level 10 Mbps-1 Gbps Ethernet encryptors but without comprising network performance.
- SafeNet Virtual Encryptor CV1000 This first hardened virtual encryptor is instantly scalable, and may be deployed rapidly across hundreds of network links, providing robust encryption protection for data-in-motion. The SafeNet Virtual Encryptor CV1000 is a Virtual Network Function (VNF) that delivers an agile network and reduces capital expenditure requirements.

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

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