

# SafeNet Luna Network HSM



Secure your sensitive data and critical applications by storing, protecting and managing your cryptographic keys in SafeNet Luna Network Hardware Security Modules (HSMs) - high-assurance, tamper-resistant, network-attached appliances offering market-leading performance.

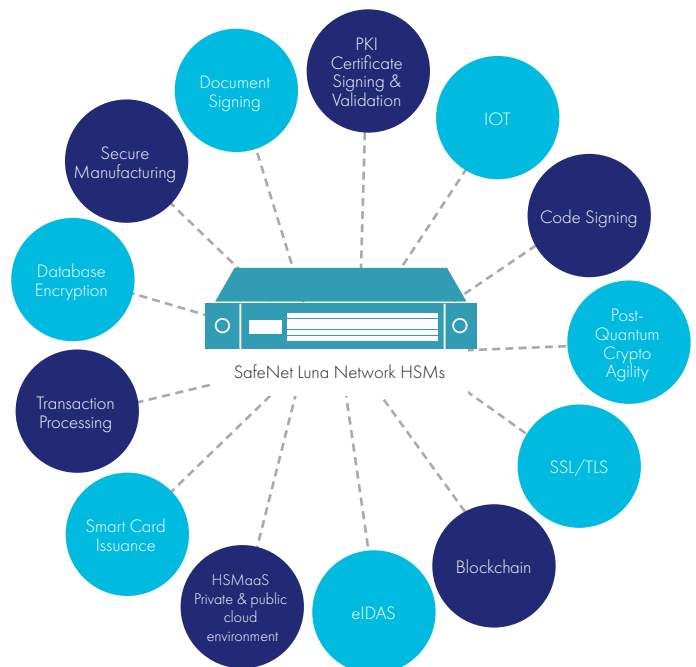
Contact us to learn how you can integrate SafeNet Luna Network HSMs into a wide range of applications to accelerate cryptographic operations, secure the crypto key lifecycle, and provide a root of trust for your entire encryption infrastructure.



## What you need to know:

### Superior Performance:

- Meet your high throughput requirements with over 20,000 ECC and 10,000 RSA operations per second for high performance use cases
- Lower latency for improved efficiency



## Highest Security & Compliance:

- Keys always remain in FIPS-validated, tamper-evident hardware
- Meet compliance needs for GDPR, eIDAS, HIPAA, PCI-DSS, and more
- De facto standard for the cloud
- Multiple roles for strong separation of duties
- Multi-person MofN with multi-factor authentication for increased security
- Secure audit logging
- High-assurance delivery with secure transport mode
- High quality keys through external Quantum RNG seeding

## Reduce Costs & Save time:

- Remotely manage HSMs - no need to travel
- Reduced audit and compliance costs and burdens
- Automate enterprise systems to manage HSMs via REST API
- Efficiently administer resources by sharing HSMs amongst multiple applications or tenants
- Flexible partition policies to meet your key management and compliance needs
- Increased portability, greater efficiency and less overhead using SafeNet Luna Client in a container
- Functionality Modules
  - Extend native HSM functionality
  - Develop and deploy custom code within the secure confines of the HSM

## Technical Specifications

### Supported Operating Systems

- Windows, Linux, Solaris, AIX
- Virtual: VMware, Hyper-V, Xen, KVM

### API Support

- PKCS#11, Java (JCA/JCE), Microsoft CAPI and CNG, OpenSSL
- REST API for administration

### Cryptography

- Full Suite B support
- Asymmetric: RSA, DSA, Diffie-Hellman, Elliptic Curve Cryptography (ECDSA, ECDH, Ed25519, ECIES) with named, user-defined and Brainpool curves, KCDSA, and more
- Symmetric: AES, AES-GCM, Triple DES, DES, ARIA, SEED, RC2, RC4, RC5, CAST, and more
- Hash/Message Digest/HMAC: SHA-1, SHA-2, SM3, and more
- Key Derivation: SP800-108 Counter Mode
- Key Wrapping: SP800-38F
- Random Number Generation: designed to comply with AIS 20/31 to DRG.4 using HW based true noise source alongside NIST 800-90A compliant CTR-DRBG
- Digital Wallet Encryption: BIP32

## Security Certifications

- FIPS 140-2 Level 3 – Password and Multi-Factor (PED)
- eIDAS CC EAL4+ (AVA\_VAN.5 and ALC\_FLR.2) against the Protection Profile 419221-5 \*

## Host Interface

- 4 Gigabit Ethernet ports with Port Bonding
- IPv4 and IPv6

## Physical Characteristics

- Standard 1U 19in. rack mount appliance
- Dimensions: 19" x 21" x 1.725" (482.6mm x 533.4mm x 43.815mm)
- Weight: 28lb (12.7kg)
- Input Voltage: 100-240V, 50-60Hz
- Power Consumption: 110W maximum, 84W typical
- Heat Dissipation: 376BTU/hr maximum, 287BTU/hr typical
- Temperature: operating 0°C – 35°C, storage -20°C – 60°C
- Relative Humidity: 5% to 95% (38°C) non-condensing

## Safety & Environmental Compliance

- UL, CSA, CE
- FCC, CE, VCCI, C-TICK, KC Mark
- RoHS2, WEEE
- TAA

## Reliability

- Dual hot-swap power supplies
- Field-serviceable components
- Mean Time Between Failure (MTBF) 171,308 hrs

## Management & Monitoring

- HA disaster recovery
- Backup and restore
- SNMP, Syslog

\* under evaluation

## Available Models

Choose from two series of SafeNet Luna Network HSMs, each one with 3 different models to fit your requirements.

**Luna A Series:** Password Authentication for easy management.

A700	A750	A790
2 MB Memory	16 MB Memory	32 MB Memory
Partitions: 5	Partitions: 5	Partitions: 10
Maximum Partitions: 5	Maximum Partitions: 20	Maximum Partitions: 100

Standard Performance:	Enterprise Performance:	Maximum Performance:
RSA-2048: 1,000 tps	RSA-2048: 5,000 tps	RSA-2048: 10,000 tps
ECC P256: 2,000 tps	ECC P256: 10,000 tps	ECC P256: 22,000 tps
AES-GCM: 2,000 tps	AES-GCM: 10,000 tps	AES-GCM: 17,000 tps

**Luna S Series:** Multi-factor (PED) Authentication for high assurance use cases.

S700	S750	S790
2 MB Memory	16 MB Memory	32 MB Memory
Partitions: 5	Partitions: 5	Partitions: 10
Maximum Partitions: 5	Maximum Partitions: 20	Maximum Partitions: 100

Standard Performance:	Enterprise Performance:	Maximum Performance:
RSA-2048: 1,000 tps	RSA-2048: 5,000 tps	RSA-2048: 10,000 tps
ECC P256: 2,000 tps	ECC P256: 10,000 tps	ECC P256: 22,000 tps
AES-GCM: 2,000 tps	AES-GCM: 10,000 tps	AES-GCM: 17,000 tps

tps = transactions per second

## 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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