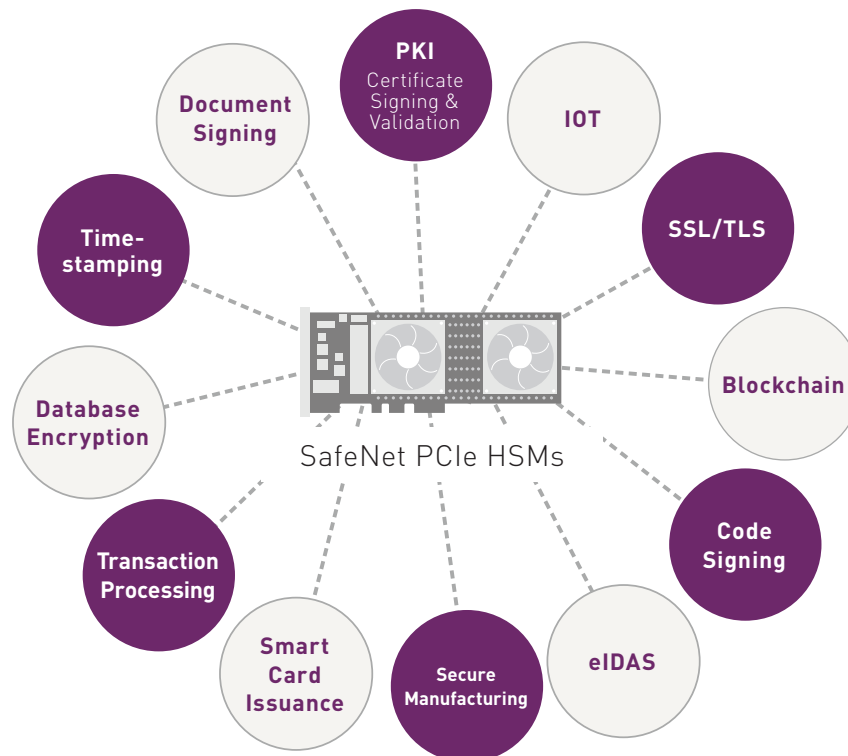


PRODUCT BRIEF

SafeNet Luna PCIe HSM

Secure sensitive data and critical applications by storing, protecting and managing cryptographic keys in SafeNet Luna PCIe HSMs – high-assurance, tamper-resistant PCIe cards. Provide applications with dedicated access to a purpose-built, high-performance cryptographic processor. Quickly embed this cost-efficient solution directly into servers and security appliances for FIPS 140-2 validated assurance.

Contact us to learn how SafeNet Luna PCIe HSMs can help you ensure the integrity and protection of your encryption keys throughout their life cycle.



What you need to know:

Superior Performance & Usability:

- > Fastest HSM on the market with over 20,000 ECC and 10,000 RSA operations per second for high-performance use cases
- > Lower latency for improved efficiency
- > Dedicated access for applications
- > Low profile PCIe card

Highest Security & Compliance:

- > Keys always remain in FIPS-validated, tamper-evident hardware
- > Meet compliance needs for GDPR, eIDAS, HIPAA, PCI-DSS, and more
- > 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

Technical Specifications

Supported Operating Systems

- > Windows, Linux

API Support

- > PKCS#11, Java (JCA/JCE), Microsoft CAPI and CNG, OpenSSL

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, RCS, 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

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 *

Physical Characteristics

- > Low profile PCIe card
- > Dimensions: 69.6mm x 167mm x 187mm (2.74" x 6.57" x 0.74")
- > Power Consumption: 18W maximum, 14W typical
- > Heat Dissipation: 61.4 BTU/hr maximum, 47.8 BTU/hr typical
- > Temperature: operating 0°C–50°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

Host Interface

- > PCI-Express CEM 3.0, PCI, PCI Express Base 2.0

Reliability:

- > Backup/restore
- > High Availability (HA)
- > Mean Time Between Failure (MTBF) 997,508 hours

* under evaluation

Available Models

Choose from two series of SafeNet Luna PCIe 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
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
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

tsp = transactions per second

Contact Us: For all office locations and contact information, please visit safenet.gemalto.com/contact-us

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security to be free