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, HIPAA, PCI-DSS, eIDAS, and more
- Multiple roles for strong separation of duties
- Multi person MofN with multi-factor authentication for increased security
- Secure audit logging
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 (ED25519, ECIES) with named, user-defined and Brainpool curves, KCSA
  - Symmetric: AES, AES-GCM, Triple DES, DES, ARIA, SEED, RC5, RC4, RC5, CAST
  - Hash/Message Digest/HMAC: SHA-1, SHA-2, SM3
  - Key Derivation: SP800-108 Counter Mode
  - Key Wrapping: SP800-38F
  - Random Number Generation: FIPS 140-2 approved DRBG (SP 800-90 CTR mode), complying with BSI DRG.4

Security Certifications
- FIPS 140-2 Level 3—Password and multi-factor (PED)*
- FIPS 186-4

Physical Characteristics
- Low profile PCIe card
- Dimensions: 69.6mm x 167mm x 187.mm (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

Host Interface
- PCI-Express CEM 3.0, PCI, PCI Express Base 2.0

Reliability
- High Availability

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.

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<td>2 MB Memory</td>
<td>16 MB Memory</td>
<td>32 MB Memory</td>
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Luna S Series: Multi-factor (PED) Authentication for high assurance use cases.

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

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SafeNet Luna PCIe HSM - Product Brief