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:**
- 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

**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
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, KDSA, 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

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 19" 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

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Memory</th>
<th>Partitions</th>
<th>Standard Performance</th>
<th>Enterprise Performance</th>
<th>Maximum Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A700</td>
<td>2 MB</td>
<td>Partitions: 5</td>
<td>RSA-2048: 1,000 tps</td>
<td>ECC P256: 2,000 tps</td>
<td>AES-GCM: 2,000 tps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Partitions: 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A750</td>
<td>16 MB</td>
<td>Partitions: 5</td>
<td>RSA-2048: 5,000 tps</td>
<td>ECC P256: 10,000 tps</td>
<td>AES-GCM: 10,000 tps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Partitions: 20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A790</td>
<td>32 MB</td>
<td>Partitions: 10</td>
<td>RSA-2048: 10,000 tps</td>
<td>ECC P256: 22,000 tps</td>
<td>AES-GCM: 17,000 tps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Partitions: 100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Memory</th>
<th>Partitions</th>
<th>Standard Performance</th>
<th>Enterprise Performance</th>
<th>Maximum Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>S700</td>
<td>2 MB</td>
<td>Partitions: 5</td>
<td>RSA-2048: 1,000 tps</td>
<td>ECC P256: 2,000 tps</td>
<td>AES-GCM: 2,000 tps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Partitions: 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S750</td>
<td>16 MB</td>
<td>Partitions: 5</td>
<td>RSA-2048: 5,000 tps</td>
<td>ECC P256: 10,000 tps</td>
<td>AES-GCM: 10,000 tps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Partitions: 20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S790</td>
<td>32 MB</td>
<td>Partitions: 10</td>
<td>RSA-2048: 10,000 tps</td>
<td>ECC P256: 22,000 tps</td>
<td>AES-GCM: 17,000 tps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum Partitions: 100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

tsp = transactions per second

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

Follow Us: blog.gemalto.com/security