

Benefits

Compact, Rugged Form Factor

The Luna PCM's compact form factor is ideal for client applications that require portability. The Luna PCM includes tamper-resistant, tamper-evident metal casing for maximum durability and security.

Economical

The Luna PCM's low cost makes it ideal for OSCP, client authentication, and distributed applications that require the deployment of a large numbers of HSMs.

Integrated with Major PKI Application Platforms

Luna PCM supports applications from VeriSign, Entrust, Microsoft, SA Baltimore, Computer Associates, and more.

Full Cryptographic API Support for Easy Integration

Luna PCM supports PKCS#11, Microsoft CryptoAPI, Java JCA (Java Cryptographic Architecture), and Open SSL Cryptographic APIs to simplify development and speed application deployment. A full SDK is available for custom development.

Scalable

The Luna PCM token works with the PCI-based Luna DOCK token reader providing a scalable architecture that allows the addition of multiple tokens to meet increased performance needs as your applications grow.

Luna[®] PCM 2.2

Hardware Security Module

The SafeNet Luna PCM is a low-cost, compact Hardware Security Module (HSM) offering hardware-based key management and hardware — accelerated cryptographic performance within a compact card format.

Secure, Portable Digital Signing and Key Storage

Luna PCM offers secure key generation, digital signing, signature validation, and encryption functions to meet the demands of secure applications requiring the integrity of hardware key management and storage. Luna PCM's low-cost and portability, coupled with hardware accelerated cryptographic performance, enable high-security applications to protect digital credentials, sensitive network communications, and e-commerce transactions. Newly added in the Luna PCM 2.2 version is the ability to generate new signatures, signature back-up, key export, and signature with cloning technologies.

Hardware Key Management

Luna PCM offers dedicated hardware key management to protect sensitive cryptographic keys from attack. The high security hardware design ensures the integrity and protection of encryption keys throughout their life cycle. All digital signing and verification operations are performed within the HSM to increase performance and maintain security. Luna

PCM HSMs provide hardware secured key generation, storage, secure key backup, and accelerated encryption in a range of models and configurations offering a wide selection of security, performance, and operational capabilities.

Cryptographic Capabilities

Luna PCM supports a broad range of asymmetric key encryption and key exchange capabilities as well as support for all standard symmetric encryption algorithms. Luna PCM also supports all standard hashing algorithms and message authentication codes (MAC) as well as Random Number Generation based on Appendix A 2.4 of ANSI X9.31.

Operating systems supported (using Luna Dock)

- Windows 2000, 2003, XP
- Red Linux Hat 8.0 (source driver for kernel 2.4.x included)
- Red Hat Fedora Core 2.0 (source driver for kernel 2.6.x included)



For Additional Information

SafeNet (NASDAQ: SFNT) is a global leader in information security. Founded more than 20 years ago, the company provides complete security utilizing its encryption technologies to protect communications, intellectual property and digital identities, and offers a full spectrum of products including hardware, software, and chips. ARM, Bank of America, Cisco Systems, the Departments of Defense and Homeland Security, Microsoft, Samsung, Texas Instruments, the U.S. Internal Revenue Service, and scores of other customers entrust their security needs to SafeNet. Additional information about the company and our products can be found at www.safenet-inc.com.



Technical Specifications

Connectivity

- Luna PCM Token– Type II PC
- Card Interface, 5V (+/- 0.25V)

Cryptographic Processing

Asymmetric Key Encryption and Key Exchange

- RSA (1024-4096 bit)
(PKCS #1 v1.5, PSS, X9, 31, OAEP PKCS#1 v2.0)
- Diffie-Hellman (512-1024 bit)
- DSA (512-1024)

Symmetric Algorithms

- DES, 3DES, (double & triple key lengths) RC2, RC4, RC5, AES

Hashing Algorithms

- SHA-1, SHA-256, SHA-384, SHA-512, MD-2, MD-5

Message Authentication Codes (MAC)

- HMAC-MD5, HMAC-SHA-1, HMAC-SHA-256, HMAC-SHA-384, HMAC-SHA-512, SSL3-MD5 MAC, SSL3-SHA-1-MAC

Random Number Generation

- Luna PCM supports random number generation based on Appendix A 2.4 of ANSI X9.31

Physical Characteristics

Operating Temperature

- 0°C to 40°C

Storage Temperature

- -20°C to +65°C

Dimensions

Type II PC Card

- 54mm x 85.5mm x 4.7mm
- (3.38" x 2.12" x 0.18")

Regulatory Standards

Certification

- U/L60950-1 & CSA C22.2 safety compliant
- FCC Part 15 - Class B
- RoHS Compliant
- FIPS in process
- ISO- 9002 Certification



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