Luna® PCI 3000

Hardware Security Module

Luna PCI 3000, an embedded PCI accelerator card, is the same card that powers the acclaimed Luna SA Network HSM, which is widely used by major governments, financial institutions and large enterprises around the world.

Hardware Key Management

Luna PCI 3000 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 PCI 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.

High-Performance Cryptographic Processing

Luna PCI 3000 offloads computationally intensive cryptographic operations with dedicated hardware acceleration. Offers a rapid 3000 asymmetric 1024-bit RSA operations per second.

Certified Hardware

- FIPS 140-2 Level 2 and Level 3 validation (In Process)
- Common Criteria at EAL 4+(In Process)
- RoHS compliant to meet the material component standards for electrical and electronic established for the European Union markets.

Secure Authentication and Access Control

Luna PCI 3000 offers strong two-factor authentication and multiple administrator roles to prevent unauthorized access to sensitive cryptographic material. Luna PCI 3000 also offers true Trusted Path Authentication using the Luna PED (PIN Entry Device) which is an integrated handheld authentication console that does not rely on commercial keyboards or displays for administrator PIN code entry.

Benefits

Integrated Physical Security
Luna PCI 3000 is currently under review for FIPS 140-2 validation at both Level 2 and Level 3. All models are securely packaged inside specially designed enclosures to meet stringent requirements for tamper and intrusion resistance.

Plug and Play Support for Windows Platforms
Plug and play support for Microsoft Windows 2000, Windows XP, and Windows Server 2003 ensures easy deployment of Luna PCI to a wide range of security applications including IIS Server, Microsoft Certificate Services, ISA Server and RMS Server.

Full Cryptographic API Support for Easy Integration
Luna PCI 3000 supports PKCS#11, Microsoft CryptoAPI, Java JCA (Java Cryptographic Architecture), and Open SSL Cryptographic APIs to simplify development and speed application deployment.

Developer's Toolkit
For developers, the powerful easy to use Luna Toolkit is available to make it easy to add secure, hardware based cryptographic processing to your custom applications.

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Cryptographic Capabilities

Luna PCI 3000 supports a broad range of asymmetric key encryption and key exchange capabilities, as well as support for all standard symmetric encryption algorithms. And, 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.

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.

RoHS COMPLIANT

PCI SECURITY VENDOR ALLIANCE

Corporate Headquarters: 4690 Millennium Drive, Belcamp, Maryland 21017 USA
Tel.: +1 410 931 7500 or 800 533 3958, Fax: +1 410 931 7524, Email: info@safenet-inc.com

EMEA Headquarters: Tel.: + 44 (0) 1276 608 000, Email: info.emea@safenet-inc.com

APAC Headquarters: Tel: +852 3157 7111, Email: info.apac@safenet-inc.com

For all office locations and contact information, please visit www.safenet-inc.com/company/contact.asp

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Technical Specifications

Client API Support
- PKCS#11 v2.01
- Microsoft CryptoAPI 2.0
- Java JCA/JCE
- Open SSL

Operating System Support
- Microsoft Windows 2000
- Windows XP
- Windows Server 2003
- Linux Kernels 2.4, 2.6

Cryptographic Processing

Asymmetric Key Encryption and Key Exchange
- RSA (512-4096 bit) (PKCS #1 v1.5, 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 PCI supports random number generation based on Appendix A 2.4 of ANSI X9.31

Physical Characteristics

Card type
- PCI Card, Universal

Operating Temperature
- 0°C to 40°C

Storage Temperature
- -20°C to +65°C

Power Requirements
- +5V@3A Max; +12V@0.2A Max (FIPS Level 3 only)

Dimensions
- 4.1" to 7.88"

Regulatory Standards Certification
- UL 1950 (EN60950) & CSA C22.2 safety compliant

FCC Part 15 - Class B
- RoHS Compliant

*Battery is not user replaceable and becomes inoperable when tampered with

PCI Module
Full Height 200.15 mm length
PCI- xrl.ob- compliant at 64-bit 66MMHZ
PCI 2.1, 2.2, 2.3 compatible at 33/66 MHZ, 32/64-bit

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