

Luna[®] PCI 7000

Hardware Security Module (HSM)

Luna PCI 7000 is the fastest, most secure, cryptographic PCI accelerator card in the industry, and is widely used by major governments, financial institutions and large enterprises around the world. The PCI-X, and PCI express bus on Luna PCI 7000 easily plugs into the host computer and provides reliable protection for data, applications, and digital identities to reduce risk and ensure regulatory compliance.



Benefits

**Fastest Cryptographic
PCI Accelerator Card
on the Market**

**Secure Authentication
and Access Control**

**PCI express bus plugs
into host computer**

**Full Cryptographic
API Support and Developer's
Toolkits for Easy Integration**

Secure Hardware Key Management

For maximum security, Luna PCI 7000 offers dedicated hardware key management to protect sensitive cryptographic keys from attack. The high security design ensures the integrity and protection of encryption keys throughout their life cycle. Luna PCI HSMs provide hardware secure 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. Luna PCI 7000 is securely packaged to meet the most stringent requirements for tamper and intrusion resistance.

High-Performance Cryptographic Processing

Luna PCI 7000 offers high-performance cryptographic processing at a rate of 7,000 asymmetric 1024-bit RSA operations per second—more than twice as fast as the nearest competitor—and it can be embedded directly in an application server for an easy-to-integrate and cost efficient security solution.

Secure Authentication and Access Control

To prevent unauthorized access to sensitive cryptographic material, Luna PCI 7000 offers strong two-factor authentication and multiple administrator roles. Luna PCI 7000 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.

Certified Hardware

- FIPS 140-2 Level 2 and Level 3 validation
- Common Criteria at EAL 4+
- RoHS compliant



Cryptographic Capabilities

Luna PCI 7000 supports a broad range of asymmetric key encryption and key exchange capabilities, as well as support for all standard symmetric encryption algorithms. It 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.

Regulatory Standards Certification

- UL 1950 (EN60950) & CSA C22.2 safety compliant FCC Part 15 - Class B
- RoHS Compliant
- BAC and EAC ePassport Certification



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PB-HSM PCI K5-06.10.08

Technical Specifications

Client API Support

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

Operating System Support

- Windows 03
- Win 2003 (64-bit)
- Longhorn (64-bit)
- Solaris 9, 10 (32 & 64-bit)
- Linux E4, E5 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)

Suite B Algorithm Support

ECC Support

- ECDSA
- ECC Brainpool Curves (named and user-defined)

Digital Signing

- RSA (512-4096-bit), DSA (512-1024-bit), PKCS #1 v1.5

Symmetric Key Algorithms

- DES, 3DES (double & triple key lengths), RC2, RC4, RC5, CAST-3, CAST-128, AES

Hash Digest Algorithms

- SHA-1, MD-2, MD-5, SHA256, SHA512

Message Authentication Codes

- HMAC-MD5, HMAC-SHA-1, 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

1280 Object Limit

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" by 7.88"

Connectivity

- PCI-X r1.0b

PCI Module

- Full Height 7.88" length
- PCI Module PCI-X r1.0b compliant at 64-bit 66MMHZ
- PCI 2.3 compatible at 33/66 MHz, 32/64-bit
- PCI Express Bus

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