

Benefits

Integrated Physical Security

Luna PCI is validated under FIPS 140-2 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 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.

Luna PCI

Hardware Security Module

Luna® PCI is a family of high-security cryptographic PCI accelerator cards—the same cards that power 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 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 offloads computationally intensive cryptographic operations with dedicated hardware acceleration. Low-end Luna PCI models provide over 1200 asymmetric 1024-bit RSA operations per

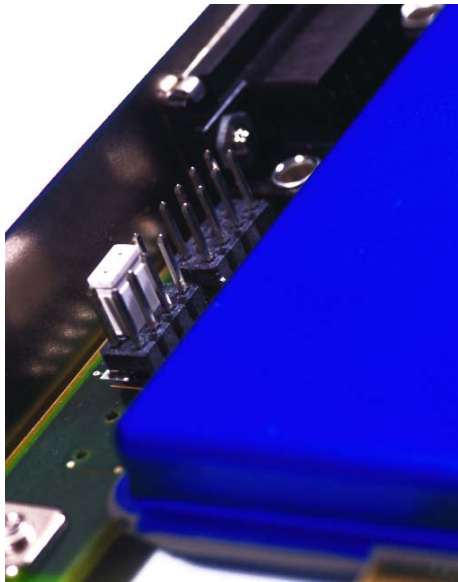
second to eliminate application processing bottlenecks for high-volume digital signing, encryption, and key generation. High-end Luna PCI models offer a blazing 7000 asymmetric 1024-bit RSA operations per second all under the security of FIPS validated hardware.

Certified Hardware

Luna PCI cards offer a wide range of premium security certifications including FIPS (Federal Information Processing Standards) 140-2 Level 2 and Level 3. Common Criteria at EAL 4+ and German Digital Signature Law are in progress.

Luna PCI is available in various configurations and certification levels to enable a wide range of security policies and operational practices.





Secure Authentication and Access Control

Luna PCI offers strong two-factor authentication and multiple administrator roles to prevent unauthorized access to sensitive cryptographic material. Luna PCI models supporting FIPS 140-2 Level 3 operation offer 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.

Cryptographic Capabilities

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

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, 3.3V

Operating Temperature

- 0°C to 50°C

Storage Temperature

- -20°C to +65°C

Regulatory Standards Certification

- 1950 & CSA C22.2 safety compliant FCC Part 15 - Class B



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