Luna Backup HSM

PRODUCT BRIEF

Luna HSMs are widely used by major governments, financial institutions, and large enterprises requiring strong cryptographic security for data, applications, and digital identities to reduce risk and ensure regulatory compliance.

Benefits & Features

Most Secure

- Keys in hardware
- Remote Backup and Restore
- Backup from multiple HSMs
- Multi-level access control
- Multi-part splits for all access control keys
- Intrusion-resistant, tamper-evident hardware

Technical Specifications

Operating System Support

- Windows, Linux

Physical Characteristics

- Dimensions: 8.5" x 6.675" x 1.7" (215.9mm x 169.545mm x 43.18mm)
- Weight: 3.3lb (1.5kg)
- Input Voltage: 100-240V, 50-60Hz
- Power Consumption: 26W maximum, 20W typical
- Temperature: operating 0°C – 35°C, storage -20°C – 70°C
- Relative Humidity: 20% to 95% (38°C) non-condensing

Safety and Environmental Compliance

- UL, CSA, CE
- FCC, KC Mark, VCCI, CE
- RoHS, WEEE

Host Interface

- USB 2.0

A Unique Design Philosophy

By its very name, HSM implies hardware. As such, most security professionals assume that all HSMs actually store cryptographic keys in hardware, as Luna HSMs do by default. In fact, while other leading HSMs generate their keys in hardware, they actually store the cryptographically wrapped keys on an application server. These keys, residing in software, can be easily detected—creating an additional attack surface.

The advantages of hardware are key reasons why the world's largest enterprises and government organizations trust SafeNet HSMs to guard more digital identities and interbank fund transfers than any other HSM in the world.

Secure Backup

Maintaining keys in hardware throughout their life-cycle is a best practice mandated by system security auditors and certification bodies responsible for attesting to the security status of cryptographic systems.

The Luna Backup HSM ensures your sensitive cryptographic material remains strongly protected in hardware even when not being used. You can easily backup and duplicate keys securely to the Luna Backup HSM for safekeeping in case of emergency, failure or disaster. The remote backup capabilities allow administrators to securely move copies of their sensitive cryptographic material to other SafeNet HSMs. With a single Luna Backup HSM, an administrator can backup and restore keys to and from up to 20 Luna HSMs.

The Luna Backup HSM provides the same level of security as the Luna SA and Luna PCI-E HSMs in a convenient, small, low cost form factor. It provides an additional layer of hardware-based security. At its core is the SafeXcel 3120, a robust, fail safe security system on a chip to protect internal keys and sensitive data. This defense-in-depth security-system-on a-chip architecture isolates plaintext key material from the HSM's primary firmware by further encrypting internal keys with a key that exists only in the SafeXcel hardware.