

Thales Luna PIN Entry Device (PED)



The Thales Luna PIN Entry Device (PED) enables you to manage the security administration functions on a Thales Luna hardware security module (HSM). This PED device provides the flexibility to administer an HSM locally or remotely, while still maintaining the highest levels of security through FIPS 140-2-validated two-factor authentication.

Secure HSM Management

To manage an HSM located at a remote site, the PED simply connects to any Windows-based workstation via a USB cable. Mutual authentication between the remote PED and the HSM provides a secure, encrypted tunnel that protects the confidentiality and integrity of the data being exchanged. Remote PED Software running on the workstation acts as a communications bridge between the PED and the Luna HSM over a network socket.

The Luna PED can also be connected directly to the HSM for local management of security functions.

Thales Luna PED Remote Management Highlights

Secure Two-Factor Authentication

The Luna PED employs two-factor authentication, providing full separation of security administration functions. To establish a secure connection, the Remote PED key is inserted into the Luna PED. To

complete authentication, a unique PIN is entered using the PED keypad. Once secure communications have been established, all interactions between the Luna HSM, Luna PED, and PED keys are performed in exactly the same way as they would be if the PED were locally connected to the HSM. The trusted path extends from the Luna HSM directly to the PED, with no network air gaps on any device in between, ensuring critical PED key data remains confidential.



Benefits

Easy Management

- Remote and local management of Luna HSMs
- Secure audit logging
- Manage multiple HSMs with a single PED for reduced total cost of ownership
- Efficiently administer remote HSMs, saving time and travel costs
- USB-powered PED for easy set up (no need for a power adapter)

Highest Security

- Tamper-evident seal
- Multi-person MofN with multi-factor authentication for increased security and role separation

Centralized HSM Management

The Luna PED allows the security administrator to centrally manage administrative functions on an HSM by simply inserting the required key and entering the secret PIN into the PED. After establishing a common PED role between the Luna HSM and the remote workstation, all HSM PED operations can be performed remotely including:

- HSM initialization and re-initialization
- Role creation including Security Officer (SO), Partition SO, Crypto Officer, Crypto User, and Domain

Highly Secure

All communication between the Luna PED and the Luna HSM is transmitted within an AES-256 encrypted channel using session keys based on secrets shared out-of-band via the remote PED role. The Advanced Encryption Standard (AES) provides a significant increase in the level of protection to fortify defenses against today's most common hacking threats.

Technical Specifications

The Luna PED kit includes:

- Luna PED device
- PED Cable for connecting direct to HSM
- USB cable (power adapter not required)

Operating Systems

- Windows 7
- Windows 10

Physical Characteristics

Connectivity

- USB spec 2.0
- Plug-and-play support for Windows

Dimensions

- 6.65" x 4" x 1"

Power Dissipation

- 0.65W typical

Regulatory Standards Certification

- CE/C-UL/FCC
- FCC 47 CFR Part 15, Subpart B
- RoHS 2011/65/EU

Reliability

- Mean Time Between Failure (MTBF Telecordia SR332 Issue 3) 3,460,208

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.