

FUTUREX Excrypt™ Guardian9000

An Added Layer of Protection
That Continually Monitors & Updates
Your Hardware Security Module Network



An Added Layer of Protection That Continually Monitors & Updates Your HSM Network

- Capable of bringing total system redundancy and disaster recovery capabilities to your infrastructure
- Real time HSM network monitoring
- Centralized HSM management and configuration
- PKI-based remote Master Key loading for Lights-Out datacenters
- Customized alerting via SMTP, SNMP, and SMS

Complete Peace of Mind Through Security, Speed, and Scalability

In today's rapidly-changing security landscape, we know that your top priority remains to ensure the security of your sensitive data. The Excrypt™ Guardian9000 load balancing, disaster recovery, and remote configuration management device provides a complete and secure high availability solution for your encryption processing needs. From exhaustive PIN attack monitoring to remote, PKI-based loading of Master Keys, the Excrypt™ Guardian9000 is your all-in-one security solution that provides peace of mind for your HSM network.

Continuous HSM Monitoring and Load Balancing

One of the unique features of the Excrypt™ Guardian9000 is its ability to monitor when exhaustive PIN attacks are occurring and alert your HSM network administrator should such an attack occur. It also provides status update monitoring to ensure the operation and stability of your Excrypt™ System Security Processor (SSP) Series HSM.

The Excrypt™ Guardian9000 conducts diagnostic monitoring that observes your HSM units' temperature, error messages, and battery life. SNMP support is also included and can automatically broadcast errors to a central network monitoring tool. Additional monitoring capabilities through SMTP and SMS ensure that your network administrators are able to be reached in critical situations.

Secure, Remote Updating & Configuration

Ensuring that you have the latest firmware updates for all your HSMs is a necessity in today's security environment. With the Excrypt™ Guardian9000, you can now update all your HSMs from one centrally-located unit. The Excrypt™ Guardian9000 will also help you manage, configure, and remotely administer your HSM devices through its included secure management utility. In this same utility, the Guardian9000 can provide automatic "push" updates that will allow you to manage all critical device updates.

SPECIFICATIONS

Excrypt™ Guardian9000

Dimensions & Weight

Space: 2U
Weight: 37.1 lbs (16.83 kg)

Meets Industry Compliance Standards

Payment Card Industry (PCI)
FIPS 140-2 Level 3
ANSI X9.24 part 1 and part 2—TR-39
RoHS
FCC Part 15 - Class B

Operating Conditions

Power requirements: 100 – 230 VAC 50/60 Hz, 400 Watts
Operating temperature: 50° to 95°F (10° to 35°C)
Storage temperature: -40° to 149°F (-40° to 65°C)
Operating relative humidity: 20% to 80% non-condensing
Storage relative humidity: 5% to 95% non-condensing

External Hardware Requirements

Keyboard: Standard USB
Mouse: Standard USB
Video: SVGA1024x768 at 75Hz refresh

Excrypt™ Guardian9000 Unit Includes

Guardian9000 application CD
User guide
Mounting brackets
Two TRSM barrel keys
Cables

Integrated Alert and Notification Formats

Simple Mail Transfer Protocol (SMTP)
Simple Network Management Protocol (SNMP)
Short Message Service (SMS)

HSM Connectivity

8x Ethernet (10/100/1000)

Remote Management Capabilities

Master Key loading
User and permissions administration
Log management and audit reporting
Synchronization of keys and configuration details across HSMs
Firmware distribution and installation

Hardware Redundancy

Dual, redundant, hot-swappable power supplies
8x Ethernet (10/100/1000) with automatic failover
Direct failover link with additional Guardian9000 units

The Excrypt™ Guardian9000. Your defender against unwarranted attacks.

Ease of Use

- Single-point encryption key loading
- Robust and versatile GUI makes configuration simplified and easy to understand
- Seamlessly add a new Futurex Excrypt™ SSP Series Hardware Security Module to the network at any time

Reporting & Alert Updates

- Remotely pull data logs for internal and external audits
- Generate detailed diagnostic and support reports
- Simple Mail Transport Protocol (SMTP) and Short Message Service (SMS) allow you to be notified by email or mobile phone should any technical issues with the Excrypt™ Guardian9000 or a Futurex HSM arise
- Simple Network Message Protocol (SNMP) automatically transmits error messages to a central network monitoring tool

Centralized HSM Management

- Save time by managing your HSMs in groups under the control of the Excrypt™ Guardian9000
- Serves as a centralized console for monitoring and modifying Excrypt™ SSP Series device information
- Securely distribute firmware updates to all Excrypt™ SSP Series units in a network

Disaster Recovery

- Automatically synchronizes keys and device information across HSMs
- Avoids loss of functioning in the event of a disaster or device failure
- Communicates directly with other Guardian9000 units, allowing organizations to establish system-wide redundancy

Load Balancing

- In the slim chance that one Excrypt™ SSP Series in your HSM group should fail, the Excrypt™ Guardian9000 will help the other functioning Excrypt™ SSP Series HSMs take the load off the impaired unit

Scalability

- Organize multiple Excrypt™ SSP Series HSMs into a single, functional group that will operate faster and more effectively
- Up to five HSM groups with up to five Excrypt™ SSP Series HSMs per group allows for a highly effective Transactions Per Second (TPS) rate
- Helps increase the overall functionality of your HSM network

Single-Point Key Loading and Device Configuration

The Excrypt™ Guardian9000 allows organizations to establish a true Lights-Out environment for payment processing:

- Establishes a Public Key Infrastructure (PKI) to securely and remotely load Master Keys
- Replicate device configuration details across multiple units, reducing initial setup time

Advanced Hardware Features

The Guardian9000 includes numerous advanced hardware features, including:

- Integrated smart card and CompactFlash readers
- Advanced cryptographic hardware based on Futurex's EXP9000 encryption card
- Dual, hot-swappable power supplies