

FUTUREX Excrypt™ SSP Series

HOST SECURITY MODULE

Cost-Effective Security Solutions for
Your Transaction Processing & Data
Security Needs



Industry-Leading Transaction Speed and Security

We know that your ATM and POS networks need data encryption security that is capable of scaling with your organization. That is why our Excrypt™ System Security Processor (SSP) Series has been designed to offer complete and robust transaction security at industry-leading speeds.

Our two highly innovative models, the Excrypt™ SSP7000 (250 - 1,100 transactions per second) and the Excrypt™ SSP9000 (2,250 transactions per second), provide ideal and cost-effective security solutions for your current and future business needs.

Secure, Convenient & Easy to Use

Futurex Host Security Modules (HSM) are configured with a highly secure Ethernet (TCP/IP) port for transaction processing. Configuring this feature is easy to do and provides an important extra layer of security to prevent "man in the middle" attacks. Our HSMs also allow for dedicated port assignments which can improve your security and reduce risk.

In addition, the Excrypt™ SSP Series can store thousands of encryption keys in a single secured Excrypt™ SSP device in order to meet your key management needs. Keys can easily be loaded through the secured serial interface offline or while the Excrypt™ SSP is processing live transactions.

Industry Compliant

Adhering to industry standards, the Excrypt™ SSP Series is compliant with all audit requirements for the major switches to support not only current, but also emerging security standards. The units contain FIPS 140-2 Level 3-certified Tamper Resistant Security Modules (TRSM), thereby giving you the robust protection you need to secure your growing network.

Cost-Effective Security Solutions for Your Transaction Processing & Data Security Needs

- Helps lower your cost per transaction rate
- Ability to standardize your HSMs onto one platform
- Highly secure TCP/IP port

SPECIFICATIONS

Excrypt™ SSP Series

Operating System

Secured Linux

Dimensions & Weight

Excrypt™ SSP7000 - Space: 1U, Weight: 23.1 lbs (10.5 kg)

Excrypt™ SSP9000 - Space: 1U, Weight: 26.1 lbs (11.8 kg)

Transactions Per Second

Excrypt™ SSP7000—250 - 1,100 Transactions Per Second (TPS)

Excrypt™ SSP9000—2,250 Transactions Per Second (TPS)

Meets Industry Compliance Standards

PCI DSS

FIPS 140-2 Level 3

ANSI X9.24 part 1 and part 2—TR-39

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

Dedicated PC/Laptop: for configuration and key loading

or Futurex Securus: handheld touchscreen-based product for configuration and key loading

Excrypt™ SSP Series Units Include

Excrypt™ Manager application CD

User guide

Mounting brackets

Two TRSM barrel keys

Cables

Futurex's innovatively designed Excrypt™ SSP Series has numerous exclusive features not available on other Host Security Modules (HSM).

Universal Compatibility

- Includes the Futurex Excrypt™ Universal Interface (UI)
- Compatible with all major host application software products sold around the world
- Standardizes your HSMs across all major platforms
- Allows for simple “plug-and-play” replacement of various HSMs in the market

Cost-Effective Solutions

- Best cost to performance ratio in the industry
- Lowers your cost per transaction rate
- Excrypt™ Manager GUI reduces training and administrative costs

Excrypt™ Manager GUI

- Simple point and click PC-based application allows for easy configuration
- Ability to perform a number of key management functions, such as:
 - Load keys, including Master File Keys
 - Generate random keys
 - Generate and verify key cryptograms
 - Generate and verify key blocks

Industry Compliant Standards

The Excrypt™ SSP Series meets and adheres to the following compliant standards:

- PCI DSS
- FIPS 140-2 Level 3
- ANSI X9.24 part 1 and part 2—TR-39

Browser-Based Administration Tool

Eliminates the need for your security administrator to be physically located at the HSM to perform functions such as:

- Upgrade device firmware
- Alter IP and COMM port settings
- Alter host software application parameters
- View trace logs of all command details

Robust Logical Security

The Excrypt™ SSP Series is a FIPS 140-2 Level 3 validated hardware security device with the following physical security features:

- 1U hardened steel interlocking rack mounted case
- Two unique faceplate bezel locks to protect the configuration port
- Tamper Resistant Security Module (TRSM) with epoxy barrier and sensor wires to protect processor and system memory
- Battery backup for keys in TRSM memory

Excrypt™ SSP9000 Unique Features

The Excrypt™ SSP9000 contains the following additional features:

- Dual power supplies
- Dual gigabit Ethernet (TCP/IP) ports
- Onboard smart card reader

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