



Excrypt Plus
Hardware Security Module

THE WORLD'S MOST ADVANCED FINANCIAL HSM

Rapidly encrypt & decrypt sensitive payment data in a PCI-DSS compliant HSM

Electronic payment networks need data security solutions that scale in speed and can expand over time to support emerging payment types and algorithms. The Excrypt Plus meets and exceed those needs, offering complete and robust transaction security at speeds of up to 5,000 transactions per second (TPS). With integrated disaster recover and redundancy features to ensure rock-solid reliability, the device complies with key management best practices and contains some of the industry's most advanced security features.

Strategic integration

Strategically integrating the Excrypt Plus with other Futurex products paves the way for even faster speeds, higher availability, and fuller functionality to meet the most demanding requirements. It is compatible with Futurex solutions including the Guardian Series 3 and the Excrypt Touch, to create a fully redundant, remotely managed cryptographic infrastructure.



Available Excrypt Plus functionality



- ▶ Card/PIN issuance & validation
- ▶ Mobile payments
- ▶ P2PE & tokenization
- ▶ ATM remote key loading
- ▶ EMV issuance & validation
- ▶ MAC & hashing
- ▶ General purpose crypto

250 TPS

600 TPS

1,000 TPS

5,000 TPS

Excrypt Plus product overview

The Excrypt Plus is available in varying models, providing the transaction speeds your organization needs. Need to expand more? Increase speeds in the field to 5,000 TPS and beyond - or upgrade to the Excrypt SSP Enterprise v.2 to achieve speeds of 20,000 TPS and beyond.



Supports wide-ranging crypto functionality

- Magnetic Stripe and EMV Card Issuance and Verification
 - MAC and Hashing
 - Point-to-Point Encryption
 - Format-Preserving Encryption
 - ATM Remote Key Loading
- HCE and Cloud Payments
 - Digital Signing
 - General-Purpose Cryptography
 - Mobile Payments
 - PIN Management and Printing
 - Tokenization
- Contactless/NFC
 - 3-D Secure
 - PCI Data Protection
 - On Behalf Key Management (OBKM)
 - Custom Functionality



Universal compatibility

Turnkey compatibility with all major financial host application software sold around the world, as well as support for standards-based interfaces like PKCS #11 and Java for general purpose cryptographic processing



HSM management tools

Excrypt Manager: Dedicated, GUI-based application for secure HSM configuration, management, and key loading
Web Portal: A secure, web-based application for configuring virtually all aspects of the Excrypt Plus, monitoring logs, and more

Hardened Enterprise Security Platform integration

The Excrypt Plus integrates directly with Futurex’s full solution suite, the Hardened Enterprise Security Platform, for centralized configuration, management, monitoring, alerting, load balancing, scalability, cloud-based services, and more.

Disaster recovery and high availability

- Contains hot-swappable power supplies and dual Ethernet ports
- Integrates with VirtuCrypt Plus Monitoring and Alerting and Disaster Recovery services for increased infrastructure visibility and uptime
- Can be peered and configured into functional groups using the Guardian Series 3 centralized management platform for load balancing and failover support

Application partitioning

- Use application partitioning to segregate key storage locations, giving individual applications control over their own keys and security policies through API function blocking
- Up to 250 application partitions are supported with a single Excrypt Plus
- Each partition has its unique identity, key storage, and API function blocking



Dimensions & Weight

- Weight:** 36 pounds (16.33 kg)
- Width:** 19 inches (48.3 cm)
- Height:** 1U - 1.7 inches (4.37 cm)
- Depth:** 19.44 inches (49.38 cm)



Industry compliance standards

- FIPS 140-2 level 3 compliant
- ANSI X9.24 part 1 and part 2 - TR-39
- Payment card industry data security standard (PCI DSS)
- FCC part 15 - class B



Available functions & interface

Algorithms

- 3DES DUKPT
 - RSA
- AES
 - ECC

Interfaces

- Excrypt API
 - Java JCA/JCE
- PKCS #11
 - And more...

Key block formats

- TR-31
- AKB
 - Cryptograms



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For over 40 years, Futurex has been an award-winning leader and innovator in the encryption market, delivering uncompromising enterprise-grade data security solutions. Over 15,000 organizations worldwide trust Futurex to provide groundbreaking hardware security modules, key management servers, and cloud HSM solutions.

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Futurex is headquartered outside of San Antonio, Texas, with regional offices worldwide and over a dozen data centers across five continents, Futurex delivers unmatched support for its clients’ mission-critical data encryption and key management requirements.

