



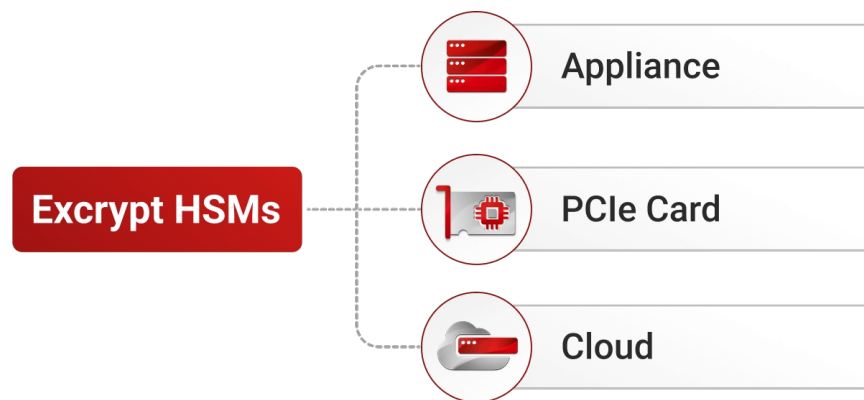
THE EXCRYPT SERIES: THE WORLD'S MOST ADVANCED HARDWARE SECURITY MODULES

Unified Cryptography, Ready for What's Next

The Excrypt HSM series - Plus, Enterprise, and X-Class, brings payment and general-purpose cryptography together in one powerful platform. Scale to 75 fully isolated virtual HSMs per device. Move to PQC when you're ready. And manage it all without rewriting your existing applications.

Modernize, Migrate, or Expand - Without the Complexity

Excrypt HSMs fit into your environment today. They also extend Futurex CryptoHub deployments with additional speed, capacity, and resilience when needed. Whether you're replacing legacy systems or building new ones, the Excrypt HSM series keeps cryptography at scale simple and secure.



Use cases:

- Payment
- Code signing
- Blockchain
- EMV validation
- Database encryption
- POS deployment
- P2PE
- IoT devices
- Issuing
- PIN
- 5G

Unified Cryptographic Capabilities

- ▶ **Converged HSM:** One platform. All your cryptography. The Excrypt HSM series handles both payment and general-purpose workloads, so you can do more with less.
- ▶ **Multitenancy:** One Excrypt HSM can host up to 75 fully isolated virtual HSMs. Each has its own independent firmware, configuration, keys, policies, network stack, and dedicated throughput allocation, eliminating noisy neighbor issues. Your architecture stays secure, predictable, and flexible.
- ▶ **Ease of Use:** Modern UI, where most HSMs are outdated and complex. The Excrypt HSM series is built to be simple to deploy, easy to manage, and powerful in operation.
- ▶ **Migration from Legacy Platforms:** No rip-and-replace. No code rewrites. No vendor lock. Excrypt HSMs support standard payment and general-purpose APIs so you can replace legacy HSMs without changing your software.
- ▶ **Orchestration and Automation:** Managing dozens or hundreds of HSMs. Automate it. Excrypt HSMs deliver full fleet orchestration, including virtual HSM lifecycles, with far less effort.
- ▶ **Future-Ready and Crypto-Agile:** The cryptography you use today won't be enough tomorrow. Futurex HSMs are already built for PQC and future standards, so you stay ahead without the scramble.



Excrypt HSMs: Product Lineup Overview

| | EXCRYPT PLUS | EXCRYPT ENTERPRISE | EXCRYPT X-CLASS |
|---|--|------------------------|---------------------------|
| Operations Per Second <small>SPS (RSA 2048 sig/s) / TPS (payment operations)</small> | 50 SPS / 5,000 TPS | 4,000 SPS / 50,000 TPS | 38,000 SPS / 100,000 TPS |
| Cloud/Dev-Ops Automation | ✗ | ✗ | ✓ |
| Post-Quantum Support | ✗ | ✓ | ✓ |
| Programmable Space | ✗ | ✓ | ✓ |
| Config Versioning & Templates | ✗ | ✓ | ✓ |
| Highly Available Hardware | ✓ | ✓ | ✓ |
| Number of Virtual HSMs | 0 | 10 | 75 |
| Application Partitions | 250 | 2,500 | 18,750 |
| Ethernet Interfaces | 2x 1GB | 2x 1GB | 2x 10GB / 4x 1GB |
| Deployment Environment | Small Deployments | Enterprise Deployments | Cloud/Service Deployments |
| API/SDK Support | RESTful, PKCS #11, MS CNG, Java, OpenSSL, Payment APIs | | |



Specifications and Compliance

Cryptography - 3DES, AES-256, RSA-4096, ECC P-521, SHA-3, FPE, TR-31/AKB, DUKPT, PQC (ML-KEM, ML-DSA, SLH-DSA), X9.17/X9.24, X.509, ECDSA, ECDH, IDEA, RC6, SEED, OBKM

Compliance - FIPS 140-3 Level 3*, PCI HSM, Cartes Bancaires, Bancontact, AusPayNet, Common Criteria EAL4+*, BIS, ASC X9.24, FCC Part 15B, IEC 62368-1, RoHS, and other standards plus support for customized compliance operations

Virtual HSMs - Up to 75 per chassis

* pending

Throughput Tiers - Plus ≤ 5K TPS

- Enterprise ≤ 20 K TPS
- X-Class ≤ 100K TPS

Partitions - 250 with policy-level API blocking

Interfaces - Excrypt API, PKCS #11, Java JCA, REST

Form Factor 1U - Plus, Enterprise, X-Class

Weight - 38 pounds (17.24 kg)

Environmental - 0 – 45 °C, 5 – 90 % RH non-condensing



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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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