



Simple, Stable, Secure:
ProCrypt HSM



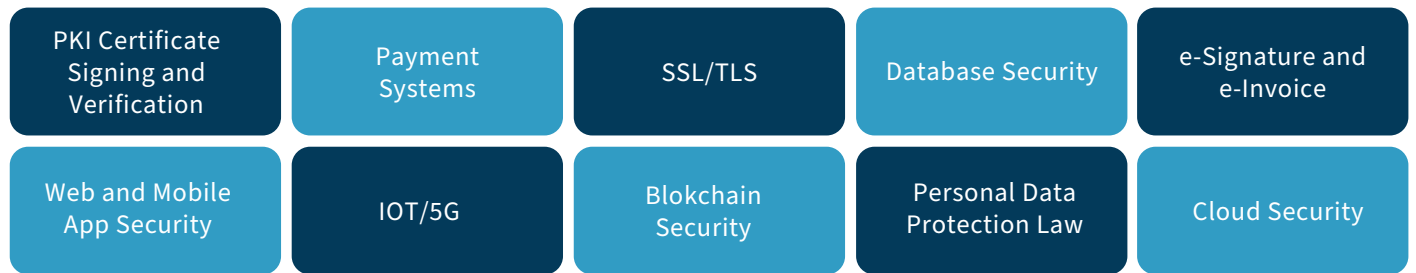
What is HSM?

HSM (Hardware Security Module) is a high-security device that is used for storing encryption keys, which are compressed, tamper-protected, and react on-demand.

With HSM , security chains can be created which are based on cryptographic systems and through cryptographic keys data encryption, decryption, signing , integration protection and verification can be done.



General Purpose – Payment Systems



ProCrypt HSM



ProCrypt HSM's protected, hardened and innovative design enables it to perform **cryptographic operations** and protect encryption keys at the hardware security level.



Being both internationally certified (**PCI HSM, CC EAL 4+, RoHs, CE, Made in Türkiye**) and local and national production ProCrypt HSM can be used in different areas with only one hardware and the appliance can run all the functions about HSM simultaneously.



High-tech product ProCrypt HSM is designed with **uninterruptable spec (24/7)** and **high performance(10.000 TPS)**.



ProCrypt HSM can be scaled horizontally with the compact and scalable architecture and is **platform independent** for usage to different scenarios.



With PCAM (ProCrypt Admin Management) ProCrypt HSM provides **ease to key configuration** and importing and allow the user to manage these operations with an easy and secure GUI.



ProCrypt HSM provides strong authentication, **hierarchical and independent role-based user management with a high-security point of view**.



ProCrypt HSM stores strong integration specs with **a simple, stable, and high-tech infrastructure**.

Technical Specifications



KM-X Premium



KM-X Performance



KM-3000



Size	1 U - 482.6mm x 210mm x 43.5mm (19" x 8.26" x 1.71")	1 U - 482.6mm x 738mm x 44.1mm (19" x 29" x 1.74")	1 U - 482.6mm x 738mm x 44.1mm (19" x 29" x 1.74")
Weight	3.5 kg (7.7 lbs)	12kg (26.45 lbs)	12kg (26.45 lbs)
Input Voltage	100 - 240V, 50 - 60Hz, 40w Single Power Supply	100 - 240V, 50 - 60Hz, 40w Dual Hot Swappable Power Supply	100 - 240V, 50 - 60Hz, 40w Dual Hot Swappable Power Supply
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)
Humidity	%10 - %90 (relative, non condensing)	%10 - %90 (relative, non condensing)	%10 - %90 (relative, non condensing)
Connection Interface	1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Certification and Compliance	Common Criteria EAL4+ (ADV_IMP.2, ALC_CMC5, ALC_DVS.2, AVA_VAN.5, ALC_FLR.2) PCI HSM v3.0, PCI HSM v4.0 (In Progress) CE, RoHS		
HASH/Message Digest/HMAC	MD5, SHA-1, SHA-2, RIPEMD, BLAKE2B, BLACK2s, SHA3, MD4, SM3, SipHash		
Symmetric	AES, DES, DES3, ARIA, BLOWFISH, CAMELLIA, CAST-128, RC2, RC4, SEED, DES-X, SM4		
Asymmetric	RSA (up to 4096 bits), ECC, DH, ECDH, ECDSA, X9.42 DH, ED25519, ED448, Poly1305, SM2, CMAC		
RNG	NIST SP 800-90 Compatible TRNG		
5G - Post Quantum	MILENAGE, TUAK, SNOW 3G, ZUC, SNOW V - Post Quantum Ready		
RSA 2048	10.000 TPS*		
RSA Key Generation	8 per second*		
Partition/Slot	100*		
API	PKCS#11, OpenSSL Engine, Special Programming Interfaces, Java Cryptography Architecture (JCA), Java Cryptography Extension (JCE), Microsoft CNG, PKM Interface		
Operating Systems	Windows, Linux (Ubuntu, Debian, Red Hat, Cent OS)		
Management and Monitoring	Easy and secure interface for key loading and configuration TCP/IP remote configuration, Easy and secure firmware update, Usage, health check, inspection and error logs, Remote management with PCAM (ProCrypt Admin Management), Serial console interface, SNMP, Syslog Server Support, Keys and VSM Cloning between HSMs and interface support, Secure Remote Update Support, Secure Key Component Input : PINPAD		
Performance and Scalability	Scalable up to 100 cryptographically isolated partitions/slot, Performance options up to 10.000 TPS, provided by hardware based, encryption, Multi-Threading to optimize performance, Various performance options for different requirements, Upgradable performance levels, Linear increased performance with additional hardware security modules, Load-Balancing		
Functions and Applications	Payment Systems, e-Signature, e-Correspondence, e-Invoice Infrastructures, e-Correspondence 2.0 Support, Digital Transformation Projects, Mobile App Security, File/Disk Encryption, Database Encryption, SSL Offloading, Electronic Authentication Systems, Cloud HSM, EMV, NFC and Contactless Payments, IoT and 5G Security, Blockchain Infrastructure		
Purpose of Usage	General Purpose & Payment Systems in same appliance**		

* Depends on HSM models and licenses. For the details please contact with info@procenne.com

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DIGITAL SECURITY

 ProCrypt