



BUILT AND OPTIMIZED FOR SECURE ISSUANCE

- Maximizes performance and availability with high cryptographic transaction rates, and flexible scaling
- Supports issuance data preparation and personalization for both central and instant issuance applications
- Facilitates secure remote access for administration functions with nShield Remote Administration kit

ENTRUST® nSHIELD ISSUANCE HARDWARE SECURITY MODULE

Delivering Scalable Cryptographic Key Services for Data Preparation and Personalization for Financial and Credential Issuance

The nShield Issuance Hardware Security Module (HSM) is FIPS 140-2 Level 3-certified hardware designed to deliver cryptographic services enabling Entrust's secure issuance software. These tamper-resistant HSMs perform vital functions for financial and identification issuance, including EMV data preparation, key generation, and data protection.

A Powerful End-to-End Solution

The nShield Issuance HSM joins Entrust's existing software, hardware, service and supply offerings — creating an integrated ecosystem that delivers unparalleled security, simplicity and serviceability. nCipher's unique Security World architecture is closely integrated with Adaptive Issuance™ Key Manager Software, ensuring seamless failover and load balancing for maximum program availability.

Operationally Efficient and IT-Friendly

Installation and ongoing maintenance is accessible and straightforward. These HSMs come with a quick-fit slide rail kit for easy installation. They also include a remote administration kit — featuring an nShield Trusted Verification Device — to facilitate the remote presentation of smart cards for HSM administration, remote firmware updates, Security World creation, and administration.

Faster Processing

The nShield Issuance HSM supports high transaction rates, making them ideal for instant issuance (banks and credit unions) as well as central issuance (card bureaus, banks and other payment card issuers) where throughput and uptime is critical. Their high cryptographic capacity ensures your investment can handle the constantly evolving EMV security standards, as well as key and certificate requirements of the industry, including contactless card profiles.

Highly Integrated, Highly Secure

With the nShield Issuance HSM from nCipher and Entrust, you'll have peace of mind knowing you have a highly integrated, highly secure solution designed specifically for your issuance program.



Technical Specifications

Supported cryptographic applications

- Asymmetric algorithms: RSA, Diffie-Hellman, ECMQV, DSA, El-Gamal, KCDSA, ECDSA (including NIST, Brainpool & secp256k1 curves), ECDH, Edwards (Ed25519, Ed25519ph)
- Symmetric algorithms: AES, Arcfour, ARIA, Camellia, CAST, DES, MD5 HMAC, RIPEMD160 HMAC, SEED, SHA-1 HMAC, SHA-224, HMAC, SHA-256 HMAC, SHA-384 HMAC, SHA-512 HMAC, Tiger HMAC, Triple DES
- Hash/message digest: MD5, SHA-1, SHA-2 (224, 256, 384, 512 bit), HAS-160, RIPEMD160

Supported issuer EMV certificates

- American Express
- Discover
- Elo
- Interac
- Japan Credit Bureau (JCB)
- Jetco
- MasterCard
- NSICCS Indonesia
- RuPay
- UnionPay
- Visa
- VCCS Vietnam

Related software

- Adaptive Issuance™ Suite 6.6 and higher
- Adaptive Issuance™ Key Manager 6.6 and higher
- CardWizard® Issuance Software 6.6 and higher
- Security World 12.60.2 and higher

Security compliance

- FIPS 140-2 Level 2 and Level 3 certified hardware

Host connectivity

- Dual Gigabit Ethernet ports (two network segments)

Safety and environmental standards compliance

- UL, CE, FCC, C-TICK, Canada ICES RoHS2, WEEE

High availability

- Field-serviceable fan tray
- Dual hot-swap power supply
- HSM load balancing / Failover with Adaptive Issuance Key Manager

Management and monitoring

- nShield Remote Administration — includes nShield Trusted Verification Device and remote administration smart cards

Physical characteristics

- Standard 1U 19in. rack mount dimensions: 1.7 x 16.9 x 27.8in (43.4 x 430 x 705mm)
- Weight: 11.5kg (25.4lb)
- Input voltage: 100-240V AC auto switching 50-60Hz
- Power consumption: up to 2.0A at 110V AC, 60Hz | 1.0A at 220V AC, 50Hz
- Heat dissipation: 327.6 to 362.0 BTU/hr. (full load)



About Entrust Corporation

Entrust is dedicated to securing a world in motion by enabling trusted identities, payments and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.

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SECURING A WORLD IN MOTION

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