

### nSHIELD CONNECT HSMs

# Certified appliances that deliver cryptographic key services across networks

nShield Connect HSMs are FIPS-certified appliances that deliver cryptographic services to applications across the network.

These tamper-resistant platforms perform such functions as encryption, digital signing and key generation and protection over an extensive range of applications, including certificate authorities, code signing, custom software and more. The nShield Connect series includes nShield Connect+ and the new, high-performance nShield Connect XC.

#### HIGHLY FLEXIBLE ARCHITECTURE

nCipher unique Security World architecture lets you combine nShield HSM models to build a mixed estate that delivers flexible scalability and seamless failover and load balancing.

#### PROCESS MORE DATA FASTER

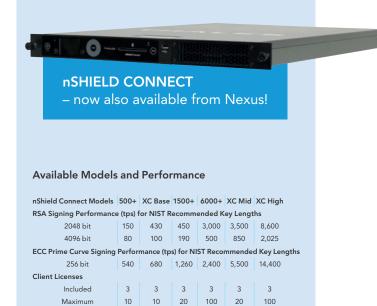
nShield Connect HSMs support high transaction rates, making them ideal for enterprise, retail, IoT and other environments where throughput is critical.

# PROTECT YOUR PROPRIETARY APPLICATIONS

The CodeSafe option provides a secure environment for running sensitive applications within nShield boundaries. aboressite nat haribusam se recto dolori reprepro con pre debitas ea dolupta sperumquia quuntio ercia sum adic te sinihilicat facestotam, quostia verro molut inctumquo omnis dolorerum

#### nSHIELD CONNECT

- Maximizes performance and availability with high cryptographic transaction rates and flexible scaling
- Supports a wide variety of applications including certificate authorities, code signing and more
- nShield CodeSafe protects your applications within nShield's secure execution environment
- nShield Remote Administration helps you cut costs and reduce travel





#### **Feature Overview**

nShield Connect HSMs are FIPS-certified appliances that deliver cryptographic services to applications across the network.

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#### **TECHNICAL SPECIFICATIONS**

#### **Supported Cryptographic Algorithms**

- 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
- Full Suite B implementation with fully licensed ECC, including Brainpool and custom curves

#### **Supported Operating Systems**

- Microsoft Windows 7 x64, 10 x64; Windows Server 2008 R2 x64, 2012 R2 x64, 2016 x64
- Red Hat Enterprise Linux AS/ES 6 x64, 6 x86, 7 x64; 5 x64 (libc6.5) (partial support), SUSE Enterprise Linux 11 x64 SP2, 12 x64
- Oracle Solaris 1 (SPARC), Oracle Solaris 1 x64
- IBM AIX 7.1 (POWER6, POWER8), HP-UX 11i v3
- Oracle Enterprise Linux 6.8 x64 and 7.1 x64
- Virtual environment support: Microsoft Windows Hyper-V Server 2012 R2, 2016, VMware ESXi 6.5, Citrix XenServer 6.5, AIX LPARs

#### Application Programming Interfaces (APIs)

 PKCS#11, OpenSSL, Java (JCE), Microsoft CAPI and CNG, nCore, nShield Web Services Crypto API

#### **Host Connectivity**

Dual Gigabit Ethernet ports (two network segments)

#### **Security Compliance**

- FIPS 140-2 Level 2 and Level 3 certified
- IPv6 certified and USGv6 Ready compliant
- Connect+: Common Criteria EAL4+ (AVA\_ VAN.5) certified Connect+ recognized as a Qualified Signature Creation Device
- Connect XC: BSI AIS 20/31 compliant

## Safety and Environmental Standards Compliance

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

#### **High Availability**

- All solid-state storage
- Field serviceable components, dual hot-swap power supplies

#### Management and Monitoring

- nShield Remote Administration and nShield Monitor
- Syslog diagnostics support Windows performance monitoring
- SNMP monitoring agent

#### **Physical Characteristics**

- Standard 1U 19in. rack mount Dimensions: 43.4 x 430 x 705mm (1.7 x 16.9 x 27.8in)
- 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)

