



SPECIFICATIONS

qCrypt™ 300H



Built-in added security with hardware security module

Configuration	<p>Rackmount appliance with HSM</p> <ul style="list-style-type: none"> • Height: (2U) 3.5"/8.8cm / (1U) 1.75"/4.4cm • Depth: (2U) 27.5"/69.85cm / (1U) 25"/63.5cm • 2x 750W power supplies (redundant, hot-swappable) • Support for both centralized and distributed deployment topologies to suit any availability or performance requirements
Replication	<ul style="list-style-type: none"> • Secure replication of policies and managed cryptographic objects – up to 16 nodes per replication group • Supports both synchronous and asynchronous replication
Random Number Generation	<ul style="list-style-type: none"> • Optional quantum random number generator (QRNG) PCIe card supporting true random key generation • Up to 1 Gbit/s true random stream • Conforms with NIST SP 800-90A, B (draft), and C (draft) • Users' output is 100% independent; traceability from hardware to entropy, to random number, to key to consumer
Cryptography & Security	<ul style="list-style-type: none"> • FIPS 140-2 Level 3 cryptographic modules • Supports one-time pad, symmetric key and asymmetric key ciphers, key derivation, random objects, and certificates • Encrypted keystore with protected root of trust • Granular, hierarchical and auditable access control • Event log, audit log, date and time of transaction, management and user reports • Thousands of end-client systems per node, 8,000 key requests/minute per node • Attended or unattended secure startup
Standards & Interoperability	<ul style="list-style-type: none"> • OASIS KMIP: Conformant with standards 1.0/1.1/1.2/1.3/1.4 • Supports PKCS#11 over KMIP • Fully implements all requirements in NIST SP800-57 Part 1 • Certified for Common Criteria EAL 2
Administration & Management	<ul style="list-style-type: none"> • Web (HTTPS) or command-line (SSH) management interfaces • Purpose-built qRE secure operating system • Includes qClient SDK