



SPECIFICATIONS

qCrypt™ 300R

Effortlessly use quantum-powered true random numbers



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| Configuration | <p>Rackmount appliance with QRNG</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"> • Included 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"> • Supports one-time pad, symmetric key and asymmetric key ciphers, key derivation, random objects, and certificates • 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 |