# SPECIFICATIONS

## qCrypt™ 350TSF

Complete key management solution forming our Trusted Security Foundation® (TSF®)

### Configuration

<table>
<thead>
<tr>
<th>Rackmount Appliance with HSM and QRNG</th>
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<tbody>
<tr>
<td>- Dimensions - 1RU: H: 4.28 cm (1.69&quot;), W: 48.20 cm (18.98&quot;), D: 80.85 cm (31.83&quot;)</td>
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<tr>
<td>- Weight - 22 kg</td>
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<tr>
<td>- Power Supply - 1RU: Dual, redundant, hot-swappable, 550 W</td>
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<tr>
<td>- Support for both centralized and distributed deployment topologies to suit any availability or performance requirements</td>
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<tr>
<td>- Support for running multiple Virtual Machines (VMs)</td>
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### Replication

- Secure replication of policies and managed cryptographic objects — up to 16 nodes per replication group
- Supports both synchronous and asynchronous replication

### Random Number Generation

- Includes quantum random number generator (QRNG) PCIe card supporting true random key generation
- Up to 1 Gbit/sec true random stream
- Conforms with NIST SP 800-90A, B, and C (draft)
- Satisfies NIST SP 800-22 (NIST STS) and Dieharder tests
- Fully independent output for each user, full audit trail from hardware to consumer
- RESTful API support for delivering random data

### Cryptography & Security

- Supports one-time pad, symmetric key and asymmetric key ciphers, key derivation, random objects, certifications and some cryptographic operations
- Support for Bring Your Own Key (BYOK) operations with AWS and MS Azure
- 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

- OASIS KMIP: Conformant with standards 1.0/11/12/13/14/20
- Fully implements all requirements in NIST SP 800-57 Part 1
- Common Criteria EAL 2 certified
- Supports PKCS#11 over KMIP

### Administration & Management

- Web (HTTPS) or command-line (SSH) management interfaces
- Purpose-built QRE secure operating system
- Delivered with qClient SDK
- Support for 10 Gbit/sec Ethernet