# SPECIFICATIONS

## qCrypt™ 300H

Built-in added security with hardware security module

### Configuration

<table>
<thead>
<tr>
<th>Rackmount Appliance with HSM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td>2U: H: 8.73 cm (3.44&quot;), W: 44.40 cm (17.49&quot;), D: 68.40 cm (26.92&quot;)</td>
</tr>
<tr>
<td>1U: H: 4.28 cm (1.68&quot;), W: 43.40 cm (17.08&quot;), D: 60.70 cm (23.9&quot;)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
</tr>
<tr>
<td>2U: Dual, redundant, hot-swappable 750 W</td>
</tr>
<tr>
<td>1U: Dual, redundant, hot-swappable 550 W</td>
</tr>
<tr>
<td><strong>Support</strong> for both centralized and distributed deployment topologies to suit any availability or performance requirements</td>
</tr>
</tbody>
</table>

### 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

- 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, and C (draft)
- Satisfies NIST SP 800-22 (NIST STS) and Dieharder tests
- Users' output is 100% independent; full audit trail from hardware to consumer

### Cryptography & Security

- FIPS 140-2 Level 3 cryptographic modules
- Supports one-time pad, symmetric key and asymmetric key ciphers, key derivation, random objects, certificates and some cryptographic operations
- Encrypted keystore with protected root of trust
- Granular, hierarchical and auditable access control
- Event log, audit log, date and time of transaction
- Thousands of end-client systems per node, 8,000 key requests/minute per node
- Attended or unattended secure startup
- OASIS KMIP: Conformant with standards 1.0/1.1/1.2/1.3/1.4/2.0
- Fully implements all requirements in NIST SP800-57 Part 1
- Certified for Common Criteria EAL 2
- PKCS#11 supported via qClient SDK

### Standards & Interoperability

- OASIS KMIP: Conformant with standards 10/11/12/13/14/20
- Fully implements all requirements in NIST SP800-57 Part 1
- Certified for Common Criteria EAL 2
- PKCS#11 supported via qClient SDK

### Administration & Management

- Web (HTTPS) or command-line (SSH) management interfaces
- Purpose-built QRE secure operating system
- Includes qClient SDK