



## SPECIFICATIONS

# qCrypt™ 300R

Effortlessly uses quantum-powered true random numbers



<b>Configuration</b>	<p><b>Rackmount Appliance with QRNG</b></p> <ul style="list-style-type: none"> <li>• Dimensions <ul style="list-style-type: none"> <li>2U: H: 8.73 cm (3.44"), W: 44.40 cm (17.49"), D: 68.40 cm (26.92")</li> <li>1U: H: 4.28 cm (1.68"), W: 43.40 cm (17.08"), D: 60.70 cm (23.9")</li> </ul> </li> <li>• Power Supply <ul style="list-style-type: none"> <li>2U: Dual, redundant, hot-swappable 750 W</li> <li>1U: Dual, redundant, hot-swappable 550 W</li> </ul> </li> <li>• Support for both centralized and distributed deployment topologies to suit any availability or performance requirements</li> </ul>
<b>Replication</b>	<ul style="list-style-type: none"> <li>• Secure replication of policies and managed cryptographic objects - up to 16 nodes per replication group</li> <li>• Supports both synchronous and asynchronous replication</li> </ul>
<b>Random Number Generation</b>	<ul style="list-style-type: none"> <li>• Included quantum random number generator (QRNG) PCIe card supporting true random key generation</li> <li>• Up to 1 Gbit/s true random stream</li> <li>• Conforms with NIST SP 800-90A, B, and C (draft)</li> <li>• Satisfies NIST SP 800-22 (NIST STS) and Dieharder tests</li> <li>• Fully independent output for each user; full audit trail from hardware to consumer</li> </ul>
<b>Cryptography &amp; Security</b>	<ul style="list-style-type: none"> <li>• Supports one-time pad, symmetric key and asymmetric key ciphers, key derivation, random objects, and certificates</li> <li>• Granular, hierarchical and auditable access control</li> <li>• Event log, audit log, date and time of transaction</li> <li>• Thousands of end-client systems per node, 8,000 key requests/minute per node</li> <li>• Attended or unattended secure startup</li> </ul>
<b>Standards &amp; Interoperability</b>	<ul style="list-style-type: none"> <li>• OASIS KMIP: Conformant with standards 1.0/1.1/1.2/1.3/1.4/2.0</li> <li>• Fully implements all requirements in NIST SP800-57 Part 1</li> <li>• Certified for Common Criteria EAL 2</li> <li>• PKCS#11 supported via qClient SDK</li> </ul>
<b>Administration &amp; Management</b>	<ul style="list-style-type: none"> <li>• Web (HTTPS) or command-line (SSH) management interfaces</li> <li>• Purpose-built qRE secure operating system</li> <li>• Includes qClient SDK</li> </ul>