



## SPECIFICATIONS

# TSF® 300



Key and policy manager with integrated quantum-powered true random numbers  
Part of the Trusted Security Foundation® (TSF®) product suite

<b>Configuration</b>	<p><b>Rackmount Appliance with QRNG</b></p> <ul style="list-style-type: none"> <li>• Dimensions: 1RU - H: 4.28 cm (1.69”), W: 48.20 cm (18.98”), D: 80.85 cm (31.83”)</li> <li>• Weight: 22 kgs (48.50 lbs)</li> <li>• Power Supply: 1RU - Dual, redundant, hot-swappable, 750W</li> <li>• Support for both centralized and distributed deployment topologies to suit any availability or performance requirements</li> <li>• Support for running multiple Virtual Machines (VMs)</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>• Includes quantum random number generator (QRNG) PCIe card supporting true random key generation</li> <li>• Up to 1 Gbit/sec 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> <li>• RESTful API support for delivering random data</li> </ul>
<b>Cryptography &amp; Security</b>	<ul style="list-style-type: none"> <li>• Supports non-embedded FIPS 140-2 Level 3 cryptographic module</li> <li>• Supports one-time pad, symmetric key and asymmetric key ciphers, key derivation, random objects, certifications and some cryptographic operations</li> <li>• Granular, hierarchical and auditable access control</li> <li>• Event log, audit log, date and time of transaction, management and user reports</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 SP 800-57 Part 1</li> <li>• Common Criteria EAL 2 certified</li> <li>• Supports PKCS#11 over KMIP</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>• Delivered with qClient™ 100</li> </ul>