

quantropi® QEEPKD 3500

Complete key distribution
and management solution



SPECIFICATIONS

Configuration	<i>Rackmount Appliance with KD, KMS, QRNG and HSM</i>
Dimensions	<ul style="list-style-type: none">◆ 1U: H: 4.28 cm (1.68"), W: 43.40 cm (17.08"), D: 60.70 cm (23.9")
Power Supply	<ul style="list-style-type: none">◆ 1U: Dual, redundant, hot-swappable 550 W◆ Support for both centralized and distributed deployment topologies to suit any availability or performance requirements
QEEP Key Distribution	<ul style="list-style-type: none">◆ Up to 1Gbit/s Bandwidth◆ Provably secure quantum key distribution◆ No distance limits
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, 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
Cryptography & Security	<ul style="list-style-type: none">◆ FIPS 140-2 Level 3 cryptographic module◆ 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
Standards & Interoperability	<ul style="list-style-type: none">◆ 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
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

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