



SPECIFICATIONS

qStream™ 100A

Appliance quantum random number generator



Configuration	<p>Rackmount Appliance</p> <ul style="list-style-type: none"> • Dimensions - 1RU: H: 4.28 cm (1.69"), W: 48.20 cm (18.98"), D: 80.85 cm (31.83") • Weight - 22 kgs • Power Supply - 1RU: Dual, redundant, hot-swappable, 550W
Performance	<ul style="list-style-type: none"> • 8 Gbit/s quantum entropy source • Outputs: <ul style="list-style-type: none"> up to 1 Gbit/s conditioned entropy (QRNG) up to 1 Gbit/s unconditioned entropy
Operations	<ul style="list-style-type: none"> • Raw and conditioned entropy output (via TCP and TLS) • Hardened OS • Granular, auditable access control • Attended or unattended startup • Logging of events and audits
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 plus extensions for secure Random Object management • Meets all requirements of NIST SP 800-90A, 90B and 90C (draft) standards for Non-Deterministic Random Bit Generators • Satisfies NIST SP 800-22 (NIST STS) and Dieharder tests • Supports PKCS#11 via KMIP
Administration & Management	<ul style="list-style-type: none"> • Web (HTTPS) or command-line (SSH) management interfaces • Purpose-built QRE secure operating system • Delivered with qClient SDK