



SPECIFICATIONS

qStream™ 100A

Appliance quantum random number generator



Configuration	<p>Rackmount Appliance</p> <ul style="list-style-type: none"> • Dimensions <ul style="list-style-type: none"> 2U: H: 8.73 cm (3.44"), W: 44.40 cm (17.49"), D: 68.40 cm (26.92") 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"> 2U: Dual, redundant, hot-swappable 750W 1U: 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"> 1 Gbit/s conditioned entropy (QRNG) 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 • 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