



SPECIFICATIONS

qStream™ 100A

Appliance quantum random number generator,
qStream 100P PCIe card also available



Configuration	Rackmount appliance <ul style="list-style-type: none"> • Height: (2U) 3.5"/8.8cm / (1U) 1.75"/4.4cm • Depth: (2U) 27.5"/69.85cm / (1U) 25"/63.5cm • 450W power supply
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 1 Gbit/s unconditioned entropy 1 Gbit/s true random (TRNG)
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; user reports and management • Supports PKCS#11 via KMIP protocols
Standards & Interoperability	<ul style="list-style-type: none"> • OASIS KMIP 1.0, 1.1, 1.2, 1.3, and 1.4, 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
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