



Redefining Security



► Solteris Q-KMS Network Appliance

Standalone Q-KMS network appliance for versatile and cost-efficient Quantum-Safe network deployments

- Operates standalone or as an extension of QKD network
- Runs over any network with embedded Clarion KX platform
- Powered by NIST-approved IDQ QRNG entropy source
- Rapid deployment with enterprise-grade performance

Governments and enterprises requiring long-term confidentiality must adopt new cryptographic solutions immediately. Quantum computing presents an imminent and unavoidable threat, as well as an immediate risk with “harvest now, decrypt later” attacks.







IDQ’s Quantum Key Management Solution (Q-KMS) helps organizations to mitigate the quantum threat on their core networks in a rapid and cost-effective way.

Solteris Network Appliance is part of IDQ’s Quantum Safe Ecosystem, offering a simple upgrade for any network infrastructure to become Quantum-Safe. Powered by IDQ’s Clarion KX Platform (Q-KMS), it enables out-of-band key







distribution as well as QKD network extension, even when QKD can’t be deployed due to infrastructure limitations. It includes a NIST-approved IDQ QRNG entropy source for secure key generation and high computational power for demanding deployments such as data center interconnects. Its versatile physical Ethernet ports and dual power supply meet the most stringent 24/7 operational needs, while ensuring cost-effective scaling and redundancy in your Quantum Safe infrastructure.

Rapidly deployable and with enterprise-grade performance, Solteris supports multi-vendor QKD and Q-KMS deployments, and offers native PQC hybridization, making it QKD satellite-ready for future-proof encryption.

KEY INDUSTRIES

 Telecom & Data Center Service Providers	 Banking & Finance	 Government & Defence
 Critical Infrastructure	 Healthcare Organizations	 IP-rich Enterprises

KEY USE CASES

 Data center interconnect and access	 Multi QKD and Q-KMS vendor deployment	 Satellite QKD ready deployment
 Highly interconnected QKD network	 Highly resilient and distributed network	 Edge and remote offices

SPECIFICATIONS

Key Management	
Internal Entropy Source	>40 Mbps IDQ QRNG
Interfaces	Network segregation and switching between services on any of the 12 physical network ports: <ul style="list-style-type: none"> • KEY (Supported Key Consumers: ETSI-GS-014, SKIP-CISCO, SNMP-Nokia) • KMS network • AUX (Supported Key Providers: ETSI-GS-014) • MGT
Ethernet	
Controller	8x GbE RJ45 Intel i350-AM4 4x 10G SFP+ Intel SoC Integrated MAC
Interfaces	RJ45/SFP+
Speed	10/100/1000 Mbps
I/O	
Console	1x RJ45
USB	2x USB 2.0
Environmental and physical parameters	
Secure memory	TPM 2.0
Form factor	1U, 19" rackmount chassis
Dimensions	W 438 mm x L 429 mm x H 44 mm
Weight	10.1 kg
Power supply	1+1 Redundant hot-swappable power supply Each 300W, 100-240VAC, 47-63Hz, 5-2.5A or 36-72VDC (optional)
Temperature range	Operating 0 to +40°C Non-operating -20 to +70°C
Relative humidity range	Operating 5% to 85% RH Non-operating 5% to 90% RH
Management and monitoring	
Alerting functions & continuous monitoring ¹	Solteris can be administrated, configured and monitored via multiples interfaces: QNET REST Web API, QNET CLI Tools, QMS Web Application, SNMP, Syslog
Applicable standards	EMC: CE/FCC Class A Safety: RoHS, UL NIST: ESV IID SP 800-90B (IDQ QRNG)

¹ Provided separately



WORLD HEADQUARTERS

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