KATIM

KATIM GATEWAY X9001-R

RUGGED SOVEREIGN-GRADE NETWORK ENCRYPTION

SECURE. RUGGED. DEPLOYABLE.

RUGGED NETWORK ENCRYPTION PLATFORM

KATIM Gateway X9001-R is a rugged sovereign-grade network encryption platform engineered to protect communications across rugged, mobile, and mission-critical operational environments. Designed from the ground up for proactive security, operational resilience, and rapid field deployment, it enables trusted encrypted connectivity across distributed operations and trusted or untrusted network environments.

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OPERATIONAL CAPABILITIES

Rugged Operational Connectivity	Trusted encrypted communications for rugged and mission-critical operational environments.
Quantum-Resilient Cryptography	Sovereign-grade encryption with post-quantum cryptography, secure key management, and long-term cryptographic resilience.
Flexible Field Deployment	Layer-2 and Layer-3 encrypted networking across trusted and untrusted operational environments.
Operational Resilience	Ruggedised architecture designed for continuous operation in demanding deployment conditions.

TECHNICAL SPECIFICATIONS

Platform & Physical	– Designed for deployable and field-based operations – Compact deployable architecture – Portable field deployment design – Designed for operational mobility
Power & Environmental	– MIL-STD-qualified rugged deployment architecture – Designed for demanding environmental conditions – Continuous secure operation across distributed environments – Operational resilience for field deployment scenarios
Connectivity & Networking	– I/O options: 4 plain ports (2 USB, RJ-45, SFP) and 2 cipher ports (RJ-45, SFP) – RJ-45 copper and SFP fibre cipher/plain ports protected by OCTIS™ connectors – Supports 10 / 100 / 1000Base-T, SX, LX, EX – Jumbo frames up to 9216 bytes – 100 Mbps up to 1 Gbps cryptographic throughput – Secure bypass optional – Layer-2 and Layer-3 VPN overlay – P2P, P2MP and MP2MP topologies – Policy-based routing, static routing, OSPF – Multicast replication and VLAN support – CLI and GUI via Crypto Network Manager
Encryption & Key Management	– Post-quantum and classical cryptography – TRNG / QRNG entropy sources – Dual asymmetric handshake with PQ and classical KEM – Authenticated identity-hiding handshake with ephemeral session keys – Autonomous key rotation – Quad Diffie-Hellman and KEM (Classical + PQC) – Per-packet integrity and confidentiality – Short-lived cryptographic keys – Ephemeral keys and ratcheting – Long-term cryptographic resilience – KATIM Customizer for deployment-wide key management
Hardware & Software Security	– Hardware-based anti-tamper protections with secure zeroisation capabilities – Automated cryptographic zeroisation upon security events – Secure domain separation architecture – Secure boot and encrypted flash – FIPS 140-3 Level 4 design target – Custom tunnelling protocol, KATP – Denial-of-service and replay protection – Strict role-based access with multi-factor authentication – Secure command-line access via SSH with strong cipher suites – Trusted encrypted networking for operational deployments

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