



KATIM GATEWAY X9000-R

EMBEDDED SOVEREIGN- GRADE NETWORK ENCRYPTION

SECURE. COMPACT. RESILIENT.



EMBEDDED NETWORK ENCRYPTION PLATFORM

KATIM Gateway X9000-R is an embedded sovereign-grade network encryption platform engineered to protect communications across distributed, mobile, and mission-critical edge environments. Designed from the ground up for proactive security, operational resilience, and low-SWaP deployment scenarios, it enables trusted encrypted connectivity across operational platforms, remote infrastructure, and trusted or untrusted network environments.

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OPERATIONAL CAPABILITIES

Embedded Edge Connectivity	Trusted encrypted communications for distributed and mission-critical edge deployments.
Quantum-Resilient Cryptography	Sovereign-grade encryption with post-quantum cryptography and long-term cryptographic resilience.
Flexible Platform Integration	Layer-2 and Layer-3 encrypted networking across operational platforms and trusted or untrusted environments.
Operational Resilience	Compact ruggedised architecture designed for continuous operation in demanding deployment conditions.

TECHNICAL SPECIFICATIONS

Platform & Physical	- Ultra-compact ruggedised network encryption platform - Embedded operational architecture - Designed for low-SWaP operational environments - Compact integration footprint - Operational platform integration support - 1 plain USB-C and 1 cipher USB-C
Power & Environmental	- Designed for demanding operational environments - Ruggedised deployment capability - Continuous secure operation across distributed environments - Operational resilience for mobile and embedded deployment scenarios
Connectivity & Networking	- Layer-2 and Layer-3 VPN overlay - Trusted and untrusted network deployment - Distributed operational connectivity - Secure encrypted interoperability across operational platforms - 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 edge deployments

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