



KATIM GATEWAY X9001

PORTABLE SOVEREIGN- GRADE NETWORK ENCRYPTION

SECURE. PORTABLE. TRUSTED.



PORTABLE NETWORK ENCRYPTION PLATFORM

KATIM Gateway X9001 is a portable sovereign-grade network encryption platform engineered to protect communications across distributed and mission-critical operational environments. Designed from the ground up for proactive security, operational flexibility, and cryptographic resilience, it enables trusted encrypted connectivity between remote sites, mobile infrastructure, and operational networks across trusted and untrusted environments.

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OPERATIONAL CAPABILITIES

Portable Operational Connectivity	Trusted encrypted communications for distributed and rapidly deployable operational environments.
Quantum-Resilient Cryptography	Sovereign-grade encryption with post-quantum cryptography, secure key management, and long-term cryptographic resilience.
Flexible Network Deployment	Layer-2 and Layer-3 encrypted networking across trusted and untrusted operational environments.
Operational Flexibility	Compact and portable architecture supporting remote infrastructure and mission-critical deployment scenarios.

TECHNICAL SPECIFICATIONS

Platform & Physical	- Ruggedised aluminium chassis, fan-cooled - Width: 147 mm - Depth: 262 mm - Height: 33 mm - Weight: 2 kg
Power & Environmental	- USB-C PD power input - Field-replaceable fan - Operating temperature: 0 °C to +50 °C - Storage temperature: -20 °C to +70 °C - Humidity: 5-85% non-condensing - Altitude: up to 5,000 m - EMI/EMC compliant (RoHS, EN62368-1)
Connectivity & Networking	- I//O options: 5 plain ports (3 USB, RJ-45, SFP) and 3 cipher ports (USB, RJ-45, SFP) - RJ-45 copper and SFP fibre cipher/plain ports - 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 / Layer-3 VPN overlay - 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	- Secure MCU with persistent battery-backed security monitoring - Anti-drill mesh, EMI shielding, thermal sensors - Multi-layer tamper detection mechanisms - Full lifecycle tamper detection and emergency wipe - Red / crypto / black isolation (hardware isolation in X9011 model, virtualisation on other models) - 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 distributed environments



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