

Quantum Safe IP Encryptor

Secure IP Communications

Today's organisations depend on distributed networks connecting headquarters, branch offices, remote users, cloud environments and operational technology. While traditional encryption protects against current cyber threats, advances in quantum computing will increasingly threaten conventional cryptography. Governments, defence organisations, critical infrastructure operators and enterprises require communications that remain secure today while preparing for tomorrow's quantum era.

Future-Ready Network Protection

The Quantum Safe IP Encryptor delivers high assurance IP encryption for mission critical communications.

Combining post-quantum cryptography, Zero Trust architecture and certified secure hardware, Quantum Safe IP Encryptor protects sensitive communications against current and emerging quantum threats while integrating seamlessly into existing IP networks.

It combines hybrid ML-KEM-1024 post-quantum cryptography (PQC), proven key exchange, secure key management and integrated network protection for resilient, future ready security.

Choose the model that best fits your network, operational and performance requirements:



Pending image

High Performance 10g/1g

- Data centres
- Headquarters
- Large scale networks



Pending image

Mini

- Mobile workforce
- Portable VPN gateway
- Autonomous systems

Compact

- Branch offices
- Enterprise edge
- Remote sites

Ruggedised

- Vehicles
- Field operations
- Defence deployments

Designed for Quantum Resilience

Quantum Safe IP Encryptor is purpose built to deliver trusted, quantum safe communications with layered protection for mission critical networks in an evolving threat landscape.



Quantum Safe by Design

IKEv2 Hybrid PQC with ML-KEM-1024
+ ECDH up to P-521 & Quantum Fallback.



Zero Trust Architecture

Never trust, always verify, continuous verification.



Hardware Root of Trust

Protected by a high assurance secure element certified to Common Criteria EAL 6+ & FIPS 140-3 Level 3 (Level 4 physical security) for critical cryptographic assets.



Crypto Agility

Adapt algorithms as standards evolve.

Benefits

Quantum Safe IP Encryptor delivers trusted, resilient and future ready communications for organisations operating across distributed networks.



Quantum Resilience

Future proof communications against quantum threats.



Data Protection

Protect mission critical data in transit.



Zero Trust Security

Strengthen cyber resilience with Zero Trust.



Secure Connectivity

Enable secure connectivity across distributed operations.



Migration Readiness

Support seamless migration to quantum safe networking.

Deployment Scenarios

Quantum Safe IP Encryptor is designed to secure mission critical communications across diverse operational environments, from enterprise networks and critical infrastructure.



Enterprise Networks

- Headquarters and regional offices
- Branch offices and remote sites
- Distributed enterprise connectivity



Government & Defence

- Classified communications
- Command and control networks
- Mission critical operations



Critical Infrastructure

- Energy and power
- Transport infrastructure
- Utilities and essential services



Mobile & Field Operations

- Remote workforce
- Tactical and field teams
- Vehicles and deployed operations

