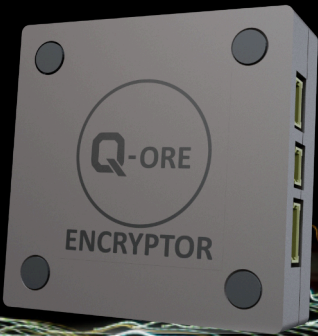# Quantum Safe End-to-End Drone Communication Platform

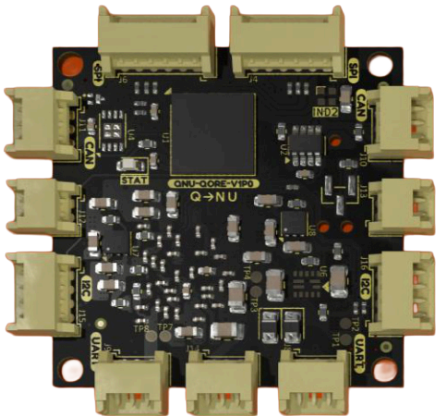**India's First Quantum-Resilient Security Solution for UAVs**

Introducing the world's first Made-in-India, end-to-end quantum-safe communication platform for autonomous drones. Designed for mission-critical defense and industrial applications, this platform secures drone telemetry, command-control, and data transmission using cutting-edge post-quantum encryption and quantum-generated randomness.

Built by QNu Labs, India's pioneering quantum cybersecurity company—proudly supported by the National Quantum Mission under the visionary leadership of the Hon'ble Prime Minister of India.

Why Choose QNu's Quantum-Safe Drone Platform?

Built for Tomorrow's Threats. Delivered Today.

QNu Labs' drone security solution sets a global benchmark. It combines:

- Post-Quantum Cryptography (PQC) for encryption that resists classical and quantum attacks
- Quantum Random Number Generator (QRNG) for truly unpredictable keys
- Hardware Root-of-Trust to ensure integrity from the chip to the cloud
- Compact, Lightweight Design ideal for deployment on drones of any size
- Seamless Integration into existing UAV fleets across defense and industrial ecosystems

This is the future of secure aerial communication—designed, developed, and made in India.

Key Features and Benefits

Feature	Benefits
Post-Quantum Encryption (CRYSTALS-Kyber + AES-256-GCM + QRNG)	Protection against threats from future quantum computers.
Real-time Tamper Detection & Hardware Root-of-Trust	Enables live secure video, command, and telemetry at 1 Gbps, ensuring zero compromise on cyber-physical security.
Future-Proof Security	Designed to withstand both current and emerging quantum threats, securing your data now and in the quantum future.
Secure Boot + OTA Crypto Updates	Ensures the platform stays future-proof as security standards evolve.
Lightweight, Low-Power Design	Extends the flight time of the drone.

Ideal Use Cases

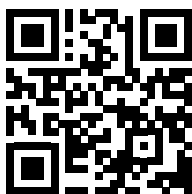| Sector	Mission
Defense & Surveillance	Tactical reconnaissance, ISR, live encrypted video feed, mission critical projects
Border Security & Coastal Command	Real-time Command and Control (C2) with post-quantum protection.
Industrial Drones	Infrastructure inspection with end-to-end encrypted telemetry.
Emergency Response	Secure live mapping, disaster assessment, and logistics.

Trusted by the Future: Awards and Recognition

QNu Labs is an Indian deep tech quantum pioneer and has received numerous awards, including:

— Innovator Award by Intellyx - A Dutch Market Analyst Firm (2025)

— Best Cybersecurity Startup of the Year, 4th MSME & Innovation Summit, India (2025)

— NASSCOM Emerge 50 and League of 10 (2024)

— National Technology Award (2022) by the Department of Science and Technology, Govt. of India

— Raksha Anveshan Ratn Award for Tech Breakthrough, Ministry of Defence (2022)

— IDEX DIO Open challenge 2.0 (2022)

— Innovation in Blockchain Aegis Graham Bell Award (2023)

— DSCI's Most Innovative Product of the Year Award (2019)

Scan for more details

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