

# C-DOT QUANTUM SAFE WIRELESS P2P SOLUTION

## OVERVIEW

Achieve uncompromised, future-ready wireless communication with Quantum-Safe Wireless Point-to-Point (P2P) Link. Designed for mission-critical environments where laying cable is impractical, this solution provides Quantum safe wireless link for communication between two sites.

## KEY CAPABILITIES

- **Line-of-Sight Wireless Security:**  
Multi-frequency support in High, Mid and low bands, directional RF beams provide communication between two fixed endpoints, with encryption at various layers.
- **Post-Quantum Cryptography:**  
Built-in support for hybrid cryptographic (Classical + PQC) algorithms resistant to current and post quantum computing threats.
- **Periodic key refreshment:**  
Encryption keys are refreshed at periodic intervals to prevent session hijacking or eavesdropping.
- **Customized Radio**
- **Resilient to intentional interference through intelligent Band & Channel hopping.**



## APPLICATIONS

- Command centre connectivity
- Remote Data Connectivity
- Industrial infrastructure in difficult terrains
- Emergency response HQ communications

## BENEFITS

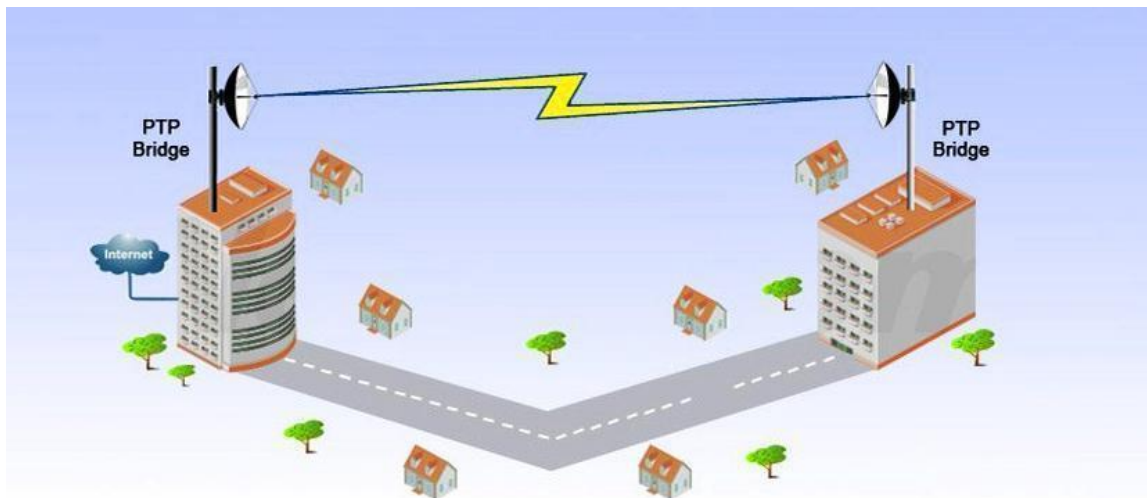
- No Dependency on Wired Infrastructure  
Enables deployment in regions where laying cables is cost-prohibitive or impossible.
- Quantum-safe Security Today  
Meets and exceeds future standards for data integrity and confidentiality.
- High Reliability & Low Latency  
RF design optimized for stable links with low latency.
- Ease of installation

## TECHNICAL SPECIFICATIONS

- Transmission Medium: Line-of-sight Radio Waves
- Data Rate: Adaptable high data rates (depend on distance, frequency etc.)
- Cryptographic Suite: NIST PQC + classical Algorithms
- Power: Solar-ready, POE and field-deployable options.
- Input voltage: Supports DC input and POE

## DEPLOYMENT CONFIGURATIONS

- Fixed mount towers, Vehicle mounted nodes
- Supports portable or permanent installation



## CERTIFICATION

- PQC module is NIST-CAVP Certified.