RAJANT

RAJANT KINETIC MESH®

Argon NTK-0900
Features / Benefits / Value

The Rajant Argon NTK-0900 modernizes legacy industrial telemetry and SCADA networks with long-range 900 MHz connectivity, higher throughput, and drop-in deployment flexibility. Designed for continuous industrial operations, it enables operators to upgrade field communications infrastructure without costly rip-and-replace deployments.

Description

Built for oil & gas, electric utility, and water utility environments, the Argon NTK-0900 delivers reliable long-range wireless connectivity for distributed industrial assets. With throughput up to 30 Mbps and support for SCADA systems, PLCs, RTUs, and sensors, the platform enables faster data collection, improved monitoring, and enhanced operational visibility.

Designed as a drop-in replacement for legacy telemetry radios, the NTK-0900 supports existing antennas, wiring, and infrastructure to simplify deployments and reduce upgrade costs. Combined with Rajant Instamesh® networking, the platform provides resilient communications to support modern industrial automation, remote monitoring, and predictive maintenance initiatives.

Problems Solved (Benefits)

Modernize Legacy SCADA Networks
NTK-0900 enables operators to upgrade decades-old telemetry networks with modern wireless connectivity, delivering faster data transfer and better reliability without requiring new infrastructure.

Faster Data Collection and Monitoring
Higher throughput enables more frequent polling and faster sampling of sensors, improving operational visibility and decision-making in industrial environments.

Drop-In Replacement for Legacy Radios
Existing antennas, wiring, and enclosures can be reused, dramatically reducing upgrade costs and deployment complexity.

Long-Range Industrial Connectivity
900 MHz operation provides excellent range and penetration across large outdoor environments such as oil fields, pipelines, and utility infrastructure.

Support Industrial Protocols and Equipment
Serial and Ethernet interfaces enable seamless integration with existing SCADA and control systems, including PLCs, RTUs, and field sensors.

Enable Edge Intelligence and Analytics
Higher throughput enables faster transmission of operational data for advanced analytics, predictive maintenance, and operational optimization.

Enable Remote Operations and Automation
Higher data capacity supports digital oilfield and smart utility initiatives such as:

- Remote monitoring
- Digital twins
- Predictive maintenance
- AI-driven analytics

Improved Field Reliability
Reliable wireless connectivity allows operators to diagnose issues remotely and automate system monitoring.

Improve Network Flexibility
Hybrid connectivity allows integration with cloud platforms, LTE networks, and centralized control systems.

Platform for Future Industrial IoT Deployments
The NTK-0900 architecture enables integration with next-generation IoT systems and edge computing platforms for future-proofing these industrial networks.

Key Features

Connectivity and Performance

- 900 MHz connectivity for longer wireless range
- Optimized for low-bandwidth industrial telemetry applications
- Higher throughput than traditional telemetry radios
- Supports faster sampling and polling of field devices
- Dynamic Transmit Power control based on signal quality

Industrial Interfaces

- Serial communications supports: RS-232, RS-485, and Modbus Protocol
- Ethernet connectivity for IP-based devices
- DC power operation

Industrial Deployment

- Designed for mounting inside **NEMA 4X enclosures**
- Compact form factor (<4” x 4”)
- Compatible with existing **900 MHz yagi antennas**
- Compatible with polyphaser support for lightning protection

Network Integration

- Integration with SCADA systems
- Transparent to all common SCADA protocols such as Modbus
- Support for PLCs, RTUs, and sensors
- Backhaul connectivity via:
    - Cellular: Anterix / LTE / 5G
    - Satelite
    - Ethernet and fiber uplinks
    - Microwave point-to-point

Value Proposition

Reduce Field Upgrade Costs by up to 70%
Drop-in compatibility with existing antennas and infrastructure dramatically lowers capital costs when replacing legacy telemetry radios.

Decrease Total Cost of Ownership by 50%
With future-proof technology, no recurring service fees, and long life-cycle industrial equipment, the total cost of ownership is a fraction of competing solutions.

Reduce Field Maintenance and Truck Rolls
Reliable wireless connectivity allows operators to diagnose issues remotely and automate system monitoring.

Reduce Operational Downtime
Improved reliability and connectivity ensure that critical infrastructure, such as wells, pipelines, substations, and water systems, remains continuously monitored.

Markets Served

- Electric Utilities
- Water Utilities
- Oil & Gas

Get the edge over other fault-tolerant networking options.

Discover how Rajant can help you stay connected—no matter how your team operates. Our technology means Reliability, Redundancy, and Resiliency. Learn more about Rajant’s one-of-a-kind technology at www.rajant.com

Tel: 484.595.0233 | **www.rajant.com**

Made in USA

25 Years WIRELESS EDGE INNOVATION

RAJANT
INTELLIGENT EDGE
Enabling Industrial AI