

GE Digital Energy MDS

INTRODUCING MDS iNET-II 900™

The MDS iNET-II™ is a long-range, megabit-speed, industrial, wireless IP/Ethernet solution, with advanced cyber-security. It allows the connection of Ethernet and/or serial devices to an IP network. This includes mission-critical, revenue-generating data from fixed assets such as oil and gas wells, compressor stations, pipelines, fluid storage tanks and utility meters. It can also be used in vehicles to provide mobile network access.

MDS iNET-II is a hybrid radio that combines the higher speed capability of DTS (Digital Transmission System) with the robustness of Frequency Hopping. The radio operates in the license-free 902-928 MHz ISM band. It is capable of up to 30 mile range (line-of-sight)² and up to 1 Mbps over-the-air data rate communications.

WHY USE AN MDS iNET-II™ WIRELESS NETWORKING SOLUTION?

Longest range industrial product in its class. Providing lowest cost of ownership.

Secure wireless operation with multiple layers of protection, including 900 MHz physical layer, RADIUS authentication and optional AES-128 data encryption with automatic key rotation.

Reliable - Designed and built for low failure rates and reduced maintenance costs.

Resilient - The P21 protected Access Point (a chassis housing two radios in a cold standby configuration) increases the availability of mission-critical point-to-multipoint networks. P21 Remote stations can also be used to form protected point-to-point links.

Flexible - The MDS iNET-II supports multiple users connecting multiple applications via multiple protocols on the same MDS iNET-II unit or the same network - simultaneously!

Future proof - The MDS iNET-II adheres to open standards, allowing it to interface with a wide range of external devices enabling both new and old technologies to communicate.

Comprehensive Network Management - Compatible with MDS NETview MS™ and any standard off-the-shelf SNMP management system.

MDS iNET-II 900™

Wireless IP/Ethernet Connectivity



MDS

industrial wireless networks

FEATURES / BENEFITS

- Long range – up to 30 miles²
- High speed – up to 1 Mbps
- Secure – multiple layers of cyber-security including:
 - AES-128 encryption
 - RADIUS authentication
- VLAN capability (802.1Q) allows multiple segregated data flows over single radio
- Ethernet and serial interfaces allow migration of existing serial devices to IP networks
- Industrial grade performance – UL class 1 div 2¹ & extended temperature range for extreme environments
- License free - deploy immediately
- Plug and play connectivity – configuration requires minimal setup for Ethernet bridging

Applications

- Long range megabit-speed wireless Ethernet
- Gateway for serial/legacy networks and/or devices to IP network
- Video and/or voice-over-IP
- Mobile network access for vehicle based operation

VLAN Capable

- IEEE 802.1Q
- Trunk or access port
- Native VLAN