

# MDS gateNET™

IP Proxy Platform



## Features/Benefits

- Management of both Ethernet & serial radio networks
- Enables migration of existing serial devices to IP networks
- SNMP proxy for MDS InSite Radio Diagnostics protocol enabled radios
- IP Terminal Server function transparently encapsulates serial payload data into IP protocol
- Allows use of MDS NETview MS™ for simplified troubleshooting and network operation
- TELNET and Web Browser for simplified diagnostics and configuration

## Applications

- Gateway for serial/legacy networks and/or devices to IP network
- Full connectivity for MDS wireless networks through other service networks.

## GE MDS...Global wireless solutions. Industrial Wireless Performance.

For more than two decades, GE MDS has been providing highly secure, industrial strength mission critical wireless communications solutions for a broad spectrum of public and private sector clients worldwide. With an installed base approaching 1,000,000 radios in 110 countries, GE MDS offers both licensed and license-free solutions with applications in SCADA, telemetry, public safety, telecommunications, and online transaction markets.

## Introducing MDS gateNET™

The MDS gateNET™ is the ideal solution for preserving your investment in legacy serial devices, while facilitating migration to, or expansion of, an IP enterprise network for data collection.

The MDS gateNET™ solution provides integration of MDS Network Wide Diagnostics into the enterprise network via the gateNET diagnostic proxy server. This allows integration of your legacy radio products into the same SNMP network management system (MDS Netview or other) as the rest of your network. In addition, the MDS gateNET™ adds webserver and Telnet interfaces for diagnostics and control of your MDS serial radio network.

The MDS gateNET™ serves as an Internet Protocol (IP) terminal server gateway between an MDS radio network and the enterprise network, bringing serial payload data onto the network. The standard MDS gateNET™ supports two user ports and is expandable up to 10 using any off-the-shelf USB to Serial expansion device.

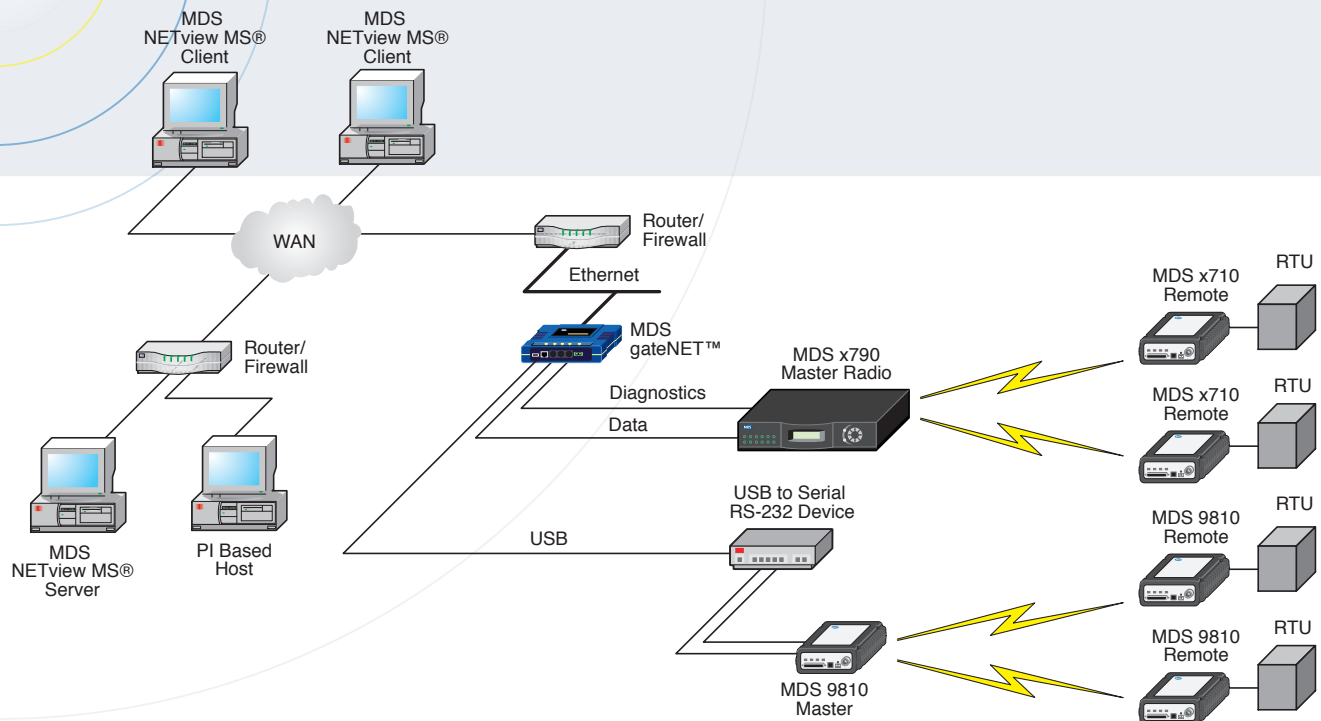
## Why use an MDS gateNET Network Access Solution?

**MDS Wireless Network Integration** enables migration of existing serial devices to IP networks to provide lowest cost of ownership.

**SNMP Proxy** for MDS InSite Radio Diagnostics Software

**MDS NETview MS™ Network Management System** is based on a platform independent Java application. It is application independent with a centralized SNMP server and integrates with multiple vendor platforms.

# MDS gateNET™ Specifications



## General

- Configurations: IP Terminal Server & Diagnostics Proxy

## Physical Interface

- Ethernet LAN (1): 10BaseT, RJ-45
- Serial (3)
  - COM1: DCE, RJ-12
  - COM2: DCE, RJ-45 EIA-561
  - COM: DTE, RJ-45 EIA-561
- USB (1): V.1.1 USB for Serial Port Expansion
- LEDs: LAN, Com1, Com2, Com3, Power
- Power Connector: Locking for UL/CSA Class 1, Div II (planned)

## Protocols

- Ethernet: IEEE 802.3
  - Spanning Tree (Bridging),
  - IP (DHCP, ICMP, UDP, TCP, ARP)
- Serial: PPP
  - Transparent encapsulation over IP for serial async multidrop protocols including Modbus, DNP.3, DF1, BSAP.

## Environmental

- Temperature: -40°C to +70°C (-40°F to +158°F)
- Humidity: 95% at 40°C (104°F) non-condensing
- Input Power: 10-30 Vdc (13.8 Vdc nominal)
- Current Consumption: < 125 mA at 13.8 Vdc

## Mechanical

- Case: Die Cast Aluminum
- Dimensions: 3.15 H x 17.2 W x 11.2 D cm. (1.25 H x 6.75 W x 4.5 in.)
- Weight: 908 g (2 lb.)
- Mounting options: Flat surface mount brackets, DIN rail, 19" rack (1U high)

## Agency Approvals

- FCC Part 15 (planned)



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