

# MDS SCADAcrypt™

Serial Data Encrypter



## Features

- AES 256 bit encryption - US Government Standard
- Industrial rated -40° to +70°C
- Small Size, 4.25" x 5.5" x 1.6"
- DB-9 serial ports, Cleartext and encrypted
- Up to 57.6 kbps
- Bypass mode for ease of installation/cutover
- Ethernet management port password protected
- 9 VDC @ 200 mA, AC adapter included.
- Compatible with common protocols including MODBUS
- Typical Latency (Delay) = 30 ms @ 9600 bps

## Applications

- Point-to-point applications
- Point-to-multipoint applications
- Wireless SCADA networks
- Wireless Serial Telemetry applications

## 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.

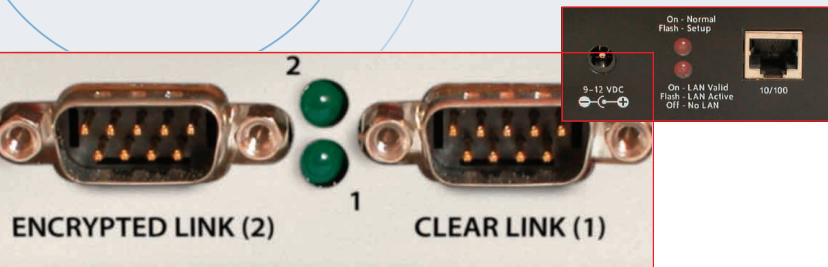
### Introducing MDS SCADAcrypt™

The MDS SCADAcrypt™ adds state-of-the-art encryption to your serial data radio telemetry or wireless SCADA network. It may be used for point-to-point, or point-to-multipoint links. Provides solid security to the device and/or to the host for MDS wireless serial systems.

The MDS SCADAcrypt™ may be added to any EIA-232 interfaced radio system and installed at your own pace. When all units are installed, a single command from the master turns on the encryption system wide. The user interface is WebServer based and password protected. Any computer with ethernet and a web browser may be used.

**Protect your critical system and data today, with state-of-the art AES encryption from GE MDS.**

# MDS SCADAcrypt™ Specifications



## General

- Two asynchronous RS232 ports
- DB-9 connectors, DTE interface
- Speeds to 57.6 Kbps full or half duplex
- Can be configured via RS232 serial port, or via Ethernet port for telnet or web browser management

## Protocol Features

- 256-bit AES encryption
- 128-bit blocks
- Block Cipher – Cipher feedback mode

## Environmental

- Operational Temperature: -40° to +70° C
- Storage Temperature: -50° to +75° C
- Humidity: < 95% Non-condensing

## Physical / Electrical

- Power requirements: 9-12VDC, 200 ma
- Supplied with 120 VAC external power supply - standard
- 13.8, 24, 48, 125 VDC and 240 VAC options are available
- Size: 10.79 W x 13.97 D x 4.0 H cm. (4.25 W x 5.5 D x 1.6 H in.)
- Weight: .45 kg. (1 lb.)

## Setup Commands

- Cipher Configuration
- Serial Port Configuration
- LAN Configuration
- Display Configuration Settings
- Reset Configuration to Default
- Save and Exit
- Exit without Saving

## Indicators

- Front:
  - Port 1 TXD active
  - Port 2 TXD active
- Back:
  - Normal Encrypted Mode
  - Clear Mode
  - Serial Setup Mode
  - No LAN Connection
  - LAN Valid
  - LAN Active



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