



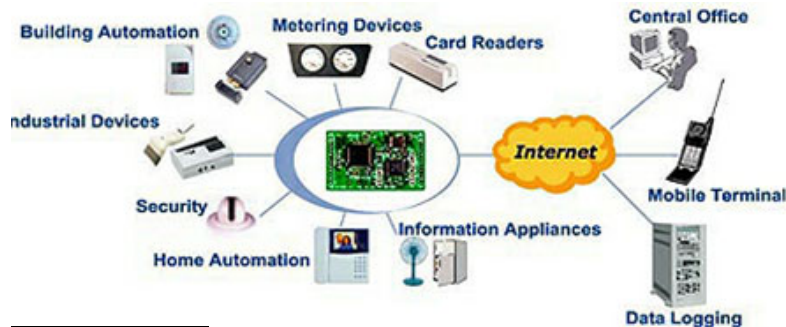
MD-N32

Serial RS232 -to Ethernet TCP/IP Gateway

The MD-N32 SmartScape™ Serial to Networked Gateway allows you to connect your RS232 devices together over a LAN / WAN Network connection. MD-N32 supports multiple topologies (MPP or PMP), compatible with selected Rosslare products and other third party networked applications.

GENERAL DESCRIPTION

The MD-N32 SmartScape™ Serial to Ethernet Gateway is a high technology data interface hardware with a PC software interface used to connect your RS232 based serial devices to a Local Area Network (LAN) system, allowing the serial device to send and receive digital data and messages from a computer or another device on the LAN.



MAIN FEATURES

Serial to Ethernet Gateway allows system with legacy serial interface communication such as RS232 or RS485 connectivity to local networks and internet.

The concept is to send and receive information between Rosslare's PC managed products (Access Control systems, Guard Control, Security systems, etc.) to local networks and save the serial cabling installation.

Most of modern offices are already networked.

In the future this would be a platform to develop products with internet communication.

The module receives serial communication, (from Rosslare's device) converts it to TCP/IP format and sends it over the LAN to the PC. On the other side, communication that send from the PC over the LAN, converted back to serial form to Rosslare's device.

All the setting and configuration is done by the PC software: "IGM7100 Remote Configuration" (see communication options below). Once the module is configured, the information is saved in a non-volatile memory in the module.

The Unit side should be configured as a server and the PC side should be configured as a client.

The MD-N32 has two LEDs for Link and Power indications.



Figure 1. MD-N32 Enclosure Hardware

PRODUCT APPLICATIONS

The MD-N32 can be used to network-enable many existing Serial Devices ,such as...

- Access Control Terminals
- Auto-ID Scanners :
- Barcode Scanners
- Data collection & security terminals :
- Data loggers
- Electronic Signboards
- Environmental monitors
- Laboratory instruments
- Low-cost educational systems
- Magnetic Card Readers
- PBX Stations
- PC-less entry systems
- Power meters
- Power monitors
- POS Systems
- Remote Sensors & Meters
- RFID Readers
- Security Devices
- Shop floor automation Terminals
- Serial printers
- Temperature monitors
- Time Recorders
- Warehouse Terminals
- Vending Machines

and many ,many others ..

ROSSLARE SYSTEM COMPATIBILITY LIST

- AC-115 8-Door Networked Access Controller
- AC-215 64-Door Networked Access Controller



MD-N32

Serial RS232 -to Ethernet TCP/IP Gateway Unit

AC-215

PRODUCT DETAILS

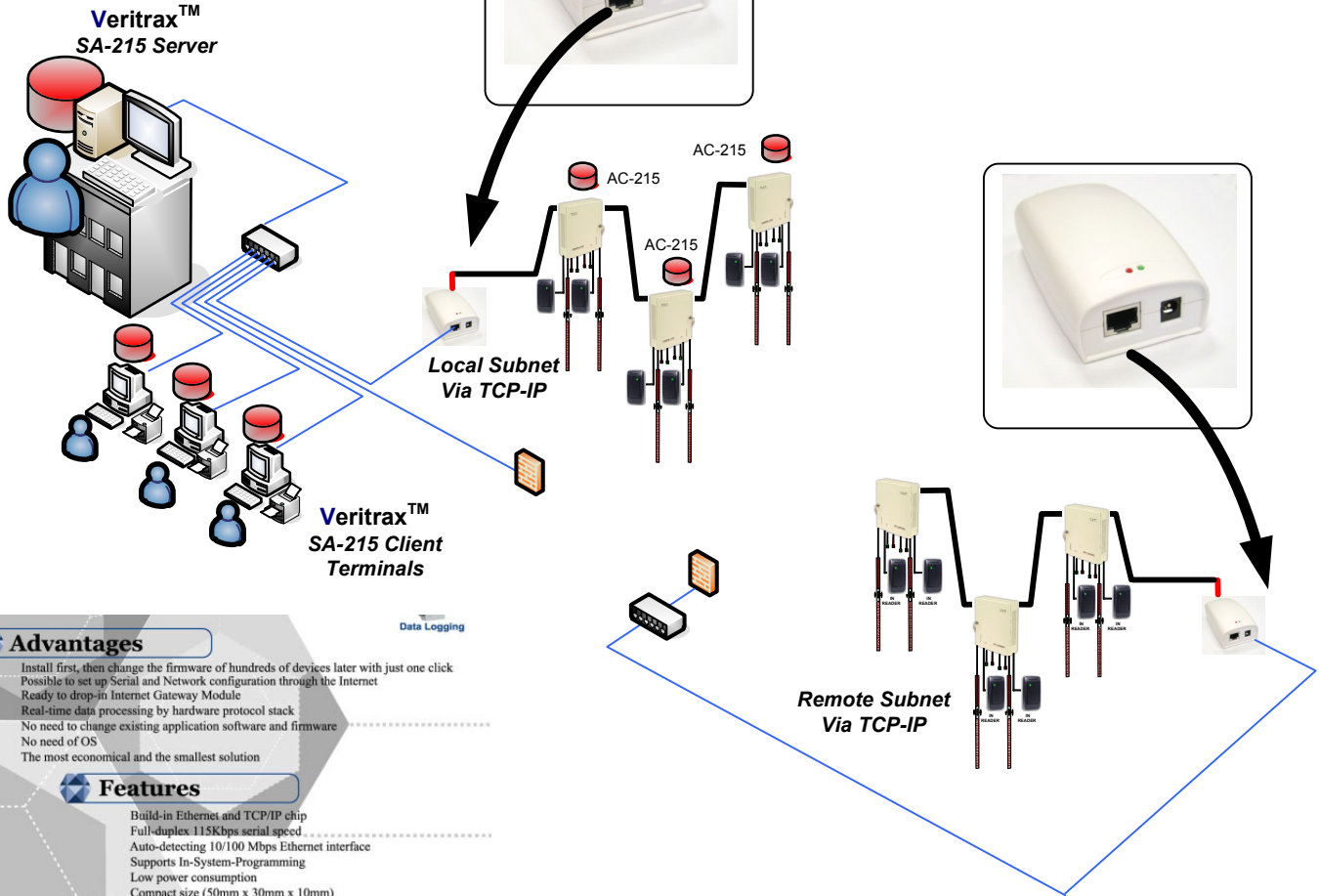


Figure 4. MD-N32 Integrate TCP/IP with AC-215

Advantages

- Install first, then change the firmware of hundreds of devices later with just one click
- Possible to set up Serial and Network configuration through the Internet
- Ready to drop-in Internet Gateway Module
- Real-time data processing by hardware protocol stack
- No need to change existing application software and firmware
- No need of OS
- The most economical and the smallest solution

Features

- Build-in Ethernet and TCP/IP chip
- Full-duplex 115Kbps serial speed
- Auto-detecting 10/100 Mbps Ethernet interface
- Supports In-System-Programming
- Low power consumption
- Compact size (50mm x 30mm x 10mm)

RS-232 CONNECTION COMMUNICATIONS DATA

- RS-232 Communications Method:** RS-232 / RS-485 – Half Duplex
D-9 Pin Type Connector
TXD, RXD, RTS, CTS, DTR, DSR, GND
- RS-232 Communications PORTS:** 1 RS-232 port (3.3V LVTTTL)
- RS-232 Serial Line Format:** Serial line format 8-N-1, 8-O-1, 8-E-1, 7-O-1, 7-E-1
- Serial Flow Control:** None, XON/XOFF, CTS/RTS
- RS-232 Communications Data Rate:** 1200bps ~ 115Kbps
- Remote Firmware Upgrade Support:** YES, MD-N32 Firmware can be updated from the Serial RS-232 Side, internal Bootstrap Loader and FLASH memory architecture.
- RS-485 Network Bus Distance (Max):** 1200 m Belden Shielded Pairs compatible if used with Rosslare's MD-14** RS-232 to RS-485 converter

ETHERNET CONNECTION COMMUNICATIONS DATA

- TCP/IP Remote LAN Support:** YES, Supports Remote TCP/IP Subnet (OEM MD-N32)
- Ethernet Protocols:** TCP, UDP, IP, ARP, ICMP, Ethernet MACRS-232
- Network Interface:** 10/100 Base-T Ethernet (Auto detection)
- RS-232 Communications Data Rate:** 57,600 Bits Per Second
- Remote Firmware Upgrade Support:** YES, MD-N32 Firmware can be updated from the TCP/IP Side, internal Bootstrap Loader and FLASH memory architecture.
- RS-485 Network Bus Distance (Max):** 1200 m Belden Shielded Pairs compatible if used with Rosslare's MD-14 RS-232 to RS-485 converter

INDICATIONS & MMI DATA << MD-N32 >>

- Link LED Visual Indicators:** 1 – Green LED (lights when Link established with Hub.)
- PS LED Visual Indicators:** 1 – Red LED (Lights when DC Power is connected)
- Audible Speaker Connection:** Yes, Tones for Programming

OPERATING DATA

- Operating Temperature :** 10°C ~ 80°C (Operating)
- Storage Temperature:** -40~85°C (Storage)
- Operating Humidity:** 10 to 90%

PHYSICAL DATA << MD-N32 >>

- MD-N32 Dimensions [mm]** XX mmh x XX mmw x XX mmd
- Weight [kg]** 50g
- Installation** Indoor Installation Only.

INTERNATIONAL STANDARDS << MD-N32 >>

- Standards Approvals** FCC / CE