



Overview

MorNet 413 is an industrial-strength network-based serial device server for connecting four RS232/422/485 device like CNC, PLC, weighing scale, scanner and other devices directly to the 10/100Mbps Ethernet network running TCP/IP.

In addition to allowing serial devices to get networked, any host (PC Server or Workstation) without network access can also access remote serial device via adding NetCom devices to the existing serial port. NetCom 413 can be configured over Driver Panels, WEB Browser, serial Port, Telnet, SNMP and serves as a transparent serial channel without platform and distance limitation.



Applications

Industrial / Factory / Laboratory automation
SCADA system
Automatic warehouse control system
Building automation system
Wafer fabrication system
Self-service banking system
Retail system
Other remote and distributed serial devices control

Features & Benefits

- Can control 4 x RS232/422/485 devices located virtually anywhere (via Ethernet or Internet)
- Lan interface 10BaseT/100BaseTx Ethernet
- Driver automatically finds NetCom devices in the network
- Configuration over Driver Panels, serial Port, Telnet, WEB Browser, SNMP
- Automatic mode switching between Driver and Raw Mode
- Support TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP V1/2c/3, DNS
- Supports ART (Automatic Receive Transmit control)
- RS232/422/485 interface selectable by Switches

Hardware Specifications

Processor: ARM 7 TDMI 50MHz

I/O controller: 16C550C or compatible
Memory: 8MB SDRAM, 1 MB Flash
Connector type: RJ45 for LAN, DSUB 9 female for serial Port

Interface:

LAN interface: Auto-detecting 10BaseT/100BaseTx
Protocols: TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP V1/2c/3, DNS
Serial interface: RS232/422/485 switchable
No. of port: 4, Speed up to 460 Kbps
Available Modes: RS232 full duplex
RS422 full duplex
RS485 4 wire, full duplex
RS485 2 wire, half duplex, with echo
RS485 2 wire, half duplex, without echo
Signals: RS232: TxD, RxD, RTS/CTS, DTR, DSR, DCD, RI, GND
RS422: Tx+/-, Rx+/-, GND
RS485 2 wire Data+/-, GND
RS485 4 wire Tx+/-, Rx+/-, GND

Performance:

Speed: Up to 460 Kbps
Parity: None, even, odd, space, mark
Data bits: 5, 6, 7, 8
Stop bits: 1, 1.5, 2
IRQ: None
I/O address: None

Operating Modes:

Driver Mode: VScom Driver for Windows NT 4.0, 2000, XP and 2003
Driver Mode creates virtual Com port
TCP Raw Server: Raw data transfer over TCP/IP. Waits for incoming connections
TCP Raw Client: Raw data transfer over TCP/IP. Connects to a host or device waiting for incoming connections
TCP Advanced Settings: Special settings for user-defined modes
UDP Mode: Raw data transfer UDP. The NetCom is client and server at the same time. With the timeout functionality and a configurable trigger string it can make defined UDP packets of incoming data.
Null Modem Tunnel: Connecting two MorNet used as virtual null modem cable

Power and Environment:

Power requirements: 9 - 30V DC, 200mA @ 12V
Power supply Adapter: 12V, DC 1A

Dimension:	73×115×27 mm ³ (W×L×H) 101×121×27 mm ³ with DB9 connector and ears
Operating Temp:	0°C - 60°C
Storage Temp:	-20°C - 85°C
Case:	SECC sheet metal (1mm)
Weight:	0.5kg

Special Features:

Installation:	Configuration utility automatically finds MorNet devices in the network
Operating mode:	Automatic mode switching between Driver and TCP RAW mode. With TCP Advanced settings it is possible to configure the MorNet for using it in multiple modes, so it decides automatically which mode should be used.
Configuration:	Configuration over Driver Panels, NetCom Manager, WEB Browser, serial console, Telnet, SNMP
SNMP:	Special VScom MIB included
ART:	No
DNS:	Domain Name Server support
Serial interface:	Serial Interface configurable with external switch
Firewall:	Special precautions for Firewall environments
Firmware:	Firmware update over WEB Browser, Telnet, ComPort
LEDs:	LEDs for Power, Tx, Rx, LAN Link, LAN Speed

Security:

Password access:	Every capabilities of configuration use the same password including SNMP V3
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Ordering Information

MorNet 413

- MorNet 413
- Power supply adapter
- CD-ROM with Driver and configuration software
- Printed Quick Installation Guide