

Model Information



■ Features

- Can control 8x 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
- Supports 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

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NetCom 813

[Quick Link:](#) | [Features](#) | [More Pictures](#) | [Overview](#) | [Application](#) | [Hardware](#) | [Interface](#) | [Performance](#) | [Operating Modes](#) | [Power and Environment](#) | [Special Features](#) | [Security](#) | [Ordering Information](#) | [Optional Accessories](#) |

■ More Pictures



Klick on the thumbnails for the large picture ...

[>Back to top](#)

■ Overview

NetCom 813 is an industrial-strength network-based serial device server for connecting eight RS232/422/485 device like CNC, PLC, weighting 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 813 can be configured over Driver Panels, WEB Browser, serial Port, Telnet, SNMP and serves as a transparent serial channel without platform and distance limitation.

■ Application

- 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

■ Hardware

Processor	ARM 7 TDMI 50MHz
I/O controller	16C550C or compatible
Memory	8MB SDRAM, 2 MB Flash
Connector type	RJ45 for LAN, DSUB 9 male for serial Port

[>Back to top](#)

■ 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	8, Speed up to 460Kbps RS232, up to 921Kbps RS422/485
Available Modes	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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
RS485 Data control	Controlled by ART (Automatic Receive Transmit control) or by RTS >Back to top

■ Performance

Speed	up to 460Kbps RS232, up to 921Kbps RS422/485
Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	None
I/O address	None

[>Back to top](#)

■ Operating Modes

Driver mode	VScom Driver for Windows NT 4.0, 2000 up to 7, Server 2000 up to 2008 R2, both x86 and x64 Editions. The Driver creates a virtual Com port, using Vscom NetCom protocol.
TCP Raw Server	Raw data transfer over TCP/IP. Accepts multiple incoming connections.
TCP Raw Client	Raw data transfer over TCP/IP. Connects to multiple hosts or devices waiting for incoming connections.
TCP Advanced Settings	Special settings for user-defined modes
UDP Mode	Raw data transfer by 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 NetCom used as virtual null modem cable.
IP Modem	The serial port emulates a standard modem. Operates by AT-commands, and dials to IP-Addresses instead of phone numbers. Windows "INF"-Driver provided for installation.
Print Server	The NetCom accepts print jobs, and spools them to the attached serial printer. Operates as of RFC1197, similar to the line printer daemon in Unix-systems

[>Back to top](#)

■ Power and Environment

Power requirements	9 - 30V DC, 600mA @ 12V, Terminal Block
Power supply Adapter	12V DC 1A
Dimension	167× 99×43 mm ³ (W×L×H)

189×102×44 mm³ with DB9 connectors and ears

Operating Temp

0°C - 60°C

Storage Temp

-20°C - 85°C

Case

SECC sheet metal (1mm)

Weight

0.7kg

[>Back to top](#)

■ **Special Features**

Installation

Configuration utility automatically finds NetCom 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 NetCom 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

Automatic Receive Transmit control for RS485

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

[>Back to top](#)

■ **Security**

Password access

Every capabilities of configuration use the same password including SNMP V3

[>Back to top](#)

■ **Ordering Information**

Art.No

671

Product Name

NetCom 813

Packing list

NetCom 813
Power supply adapter 12V, 1A
CD-ROM with Driver and configuration software
Printed Quick Installation Guide

[>Back to top](#)

■ **Optional Accessories**

[DK 35A](#)

DIN-Rail mounting kit

[Serial Adapter](#)

Null-Modem adapter, change male to female

[>Back to top](#)

NetCom 813
>Back

