

# VS-NetCom 813



- Can control 8 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
- 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

## Overview

VS NetCom 813 is an industrial-strength network-based serial device server for connecting eight 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 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.

## 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

## Specification

### Hardware

**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:** 8, Speed up to 460Kbps

**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

**RS485 Data control:** Controlled by ART (Automatic Receive Transmit control) or RTS

### Performance

**Speed:** up to 460Kbps  
**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 Win XP, Win2000  
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 NetCom used as virtual null modem cable

### Power and Environment

**Power requirements:** 9 - 30V DC, 600mA @ 12V

**Power supply Adapter:** 12V DC 1A

**Dimension:** 167× 99×43 mm<sup>3</sup> (W×L×H)  
189×102×43 mm<sup>3</sup> with connectors

### 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.

<b>Configuration:</b>	Configuration over Driver Panels, NetCom Manager, WEB Browser, serial console, Telnet, SNMP
<b>SNMP:</b>	special VScom MIB included
<b>ART:</b>	Automatic Receive Transmit control for RS485
<b>DNS:</b>	Domain Name Server support
<b>Serial interface:</b>	Serial Interface configurable with external switch
<b>Firewall:</b>	Special precautions for Firewall environments
<b>Firmware:</b>	Firmware update over WEB Browser, Telnet, ComPort
<b>LEDs:</b>	LEDs for Power, Tx, Rx, LAN Link, LAN Speed

### **Security:**

<b>Password access:</b>	Every capabilities of configuration use the same password including SNMP V3
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### **Ordering Information**

<b>Art.No:</b>	671
<b>Product Name:</b>	VS NetCom 813
<b>Packing list:</b>	VS NetCom 813 Power supply adapter CD-ROM with Driver and configuration software Printed Quick Installation Guide