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### ■ Features

- Controls 4 RS232/422/485 devices located virtually anywhere via Ethernet or Internet
- Secure encryption on Ethernet
- 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 and Software

## NetCom 413 PRO

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### ■ Overview

NetCom 413 PRO is an industrial-strength network-based serial device server for connecting one RS232/422/485 device like CNC, PLC, weighting scale, scanner and other devices directly to a network running TCP/IP.

NetCom 413 PRO provides completely secured communication for configuration and to the attached serial device.

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 PRO 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

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

### ■ Hardware

<b>Processor</b>	ARM 9 166 MHz
<b>I/ O controller</b>	16C950 or compatible
<b>Memory</b>	16MB SDRAM, 2 MB Flash
<b>Connector type</b>	DSUB 9 male for serial Port RJ45 for Ethernet

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### ■ Interface

<b>Ethernet interface</b>	Auto-detecting 10BaseT/100BaseTx
<b>Protocols</b>	TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, LPD, SNMP V1/2c/3, DNS
<b>Serial interface</b>	RS232/422/485 selected by software or DIP-switch

<b>No. of port</b>	4, Speed up to 3.6 Mbps
<b>Available Modes</b>	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
<b>Signals</b>	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
<b>RS485 Data control</b>	Controlled by ART (Automatic Receive Transmit control) or RTS <a href="#">&gt; Back to top</a>

## ■ Performance

<b>Speed</b>	RS232: up to 921.6 kbps RS422/485: up to 3.6Mbps
<b>Parity</b>	None, even, odd, space, mark
<b>Data bits</b>	5, 6, 7, 8
<b>Stop bits</b>	1, 1.5, 2
<b>IRQ</b>	None
<b>I/ O address</b>	None <a href="#">&gt; Back to top</a>

## ■ Operating Modes

<b>Driver mode</b>	VScom Driver for Windows NT 4.0, 2000, XP and 2003, Vista Driver Mode creates virtual Com port.
<b>TCP Raw Server</b>	Raw data transfer over TCP/IP. Accepts multiple incoming connections.
<b>TCP Raw Client</b>	Raw data transfer over TCP/IP. Connects to multiple hosts or devices waiting for incoming connections.
<b>TCP Advanced Settings</b>	Special settings for user-defined modes
<b>UDP Mode</b>	Raw data transfer by UDP. The NetCom is client and server at the same time. Timeout functionality, maximum packet size and a configurable trigger string define the packets of incoming data to send over UDP
<b>Null Modem Tunnel</b>	Connecting two NetCom used as virtual null modem cable.
<b>IP Modem</b>	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.
<b>Print Server</b>	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 <a href="#">&gt; Back to top</a>

## ■ Power and Environment

<b>Power requirements</b>	9 - 30V DC, 500mA @ 12V
<b>Power supply Adapter</b>	12V DC, 1A. Connected by Terminal block
<b>Dimension</b>	167× 99×29 mm <sup>3</sup> (W× L× H) 189×102×30 mm <sup>3</sup> with DB9 connector and DIN rail mounting kit
<b>Operating Temp</b>	0°C - 60°C

<b>Storage Temp</b>	-20°C - 85°C
<b>Case</b>	SECC sheet metal (1mm)
<b>Weight</b>	0.4kg

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## ■ Special Features

<b>Installation</b>	Configuration utility automaticly finds NetCom devices in the network
<b>Operating mode</b>	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 automaticly 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 DIP switch and by software
<b>Firewall</b>	Special precautions for Firewall environments
<b>Firmware</b>	Firmware update over WEB Browser, Telnet, ComPort
<b>LEDs</b>	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed

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## ■ Security

<b>Password access</b>	Every capabilities of configuration use the same password including SNMP V3
<b>Secure communication</b>	<a href="#">OpenVPN™</a> tunnel provides security on Ethernet. The tunnel protects the configuration as well as all serial data. It is also usable across the Internet. Strong encryption by AES up to 256 bit keys.

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## ■ Ordering Information

<b>Art.No</b>	676
<b>Product Name</b>	NetCom 413 PRO
<b>Packing list</b>	NetCom 413 PRO Power supply adapter 12V, 1000mA CD-ROM with Driver and configuration software Printed Quick Installation Guide

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## ■ Optional Accessories

[DK 35A](#) DIN-Rail mountig kit

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## ■ Full size product image



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