

Features

- Controls 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 / software

■ ■ Network to Serial

NetCom PRO

1 to 16-port Industrial Secure Serial Device Server

1, 4, 8 and 16 ports

Overview

NetCom PRO is based on a more powerful RISC processor as the NetCom Lite. They offer RS232/422/485 ports configurable by software or DIP-switch.

Additionally to all features of the NetCom Lite they offer encryption of both data transfer and configuration over OpenVPN. This makes the NetCom PRO to a real secure server.

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

NetCom 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 devices via adding NetCom devices to an existing serial port.

NetCom 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.



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NetCom PRO

1 to 16-port

Industrial Secure Serial Device Server

Operating Modes

The standard TCP Raw and UDP Modes are available to any operating system. Additionally NetCom PRO comes with Com Drivers supporting Windows (NT/4.0, 2000, XP, 2003, Vista) and Linux (Fixed TTY) operating systems.

After installation of the driver for a Win-OS a NetCom device appears in the Device Manager as VSCOM Virtual Com. Driver panels offer a feature-rich and easy configuration of all parameters. NetCom drivers establish a transparent connection between host computer and serial device located anywhere on TCP/IP net.

Existing software applications directly access the serial device, similar to a local COM port. Specialized applications are supported by the Null Modem Tunnel of NetCom Serial Device Servers. Two serial ports are connected via network, together they simulate a long Null Modem cable. A Modem Emulation is provided by IP Modem option. The NetCom "dials" to a second NetCom, both controlled by standard AT-command set on the serial port. A Modem driver file for Windows is provided.

Distributor

Specifications	
Processor	ARM 9 166 Mhz
I/O controller	16C950 or compatible
Memory	16MB SDRAM, 2 MB Flash
Connector type	RJ45 for Ethernet, DSUB 9 male for serial Port
LAN interface	Auto-detecting 10BaseT/100BaseTx
Protocols	TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, LPD, SNMP V1/2c/3, DNS
Serial interface	RS232/422/485 selected by software or DIP-switch
Speed	RS232: up to 921.6 kbps, RS422/485: up to 3.6 Mbps
Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	None
I/O address	None
Driver mode	VScom Driver for Windows NT 4.0, 2000, XP, 2003 and Vista. Driver Mode creates Virtual Com port
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. Timeout functionality, maximum packet size and a configurable trigger string define the packets of incoming data to send over UDP.
Null Modem Tunnel	Connecting two NetCom ports 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
Operating Temp	0°C - 60 °C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Installation	Configuration utility automatically finds NetCom devices in the network
Configuration	Configuration over Driver Panels, NetCom Manager, WEB Browser, serial console, Telnet, SNMP
SNMP	Special VScom MIB included
DNS	Domain Name Server support
Serial interface	Serial Interface configurable with DIP switch and by software
Firewall	Special precautions for Firewall environments
Firmware	Firmware update over WEB Browser, Telnet, ComPort
LEDs	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed
Password access	Every capabilities of configuration use the same password including SNMP V3
Secure communication	OpenVPN 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
EMC and Environment	FCC Class A, CE Class A; RoHS

Available models

- 1-port: NetCom 113 PRO
- 4-port: NetCom 411 PRO, NetCom 413 PRO
- 8-port: NetCom 811 PRO, NetCom 813RM PRO
- 16-port: NetCom 1613RM PRO

Where to buy?

VSCOM's global distributors can help you find the right product for your requirements. or contact VSCOM directly: sales@vscom.de

www.vscom.de

