



[Zoom in Picture](#)

■ Features

- Controls 16 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 1613RM PRO

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

■ Overview

NetCom 1613RM 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 1613RM 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 1613RM 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

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

[> Back to top](#)

■ Interface

Ethernet 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

No. of port	16, Speed up to 3.6 Mbps
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 > Back to top

■ Performance

Speed	RS232: up to 921.6 kbps RS422/485: up to 3.6Mbps
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, XP and 2003, 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 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	100 - 240V AC 47-63 Hz, 25VA
Dimension	429×147×44 mm ³ (W×L×H) 451×152×44 mm ³ with DB9 connectors and DIN rail mounting kit 19" 1HU Rackmount
Operating Temp	0°C - 55°C
Storage Temp	-20°C - 85°C

Case	SECC sheet metal (1mm)
Weight	2.7kg

[> 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 DIP switch and by software
Fire wall	Special precautions for Firewall environments
Firm ware	Firmware update over WEB Browser, Telnet, ComPort
LEDs	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed

[> Back to top](#)

■ Security

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.

[> Back to top](#)

■ Ordering Information

Art.No	678
Product Name	NetCom 1613RM PRO
Packing list	NetCom 1613RM PRO Power cord 19" mounting kit CD-ROM with Driver and configuration software Printed Quick Installation Guide

[> Back to top](#)

■ Optional Accessories

DK 35A	DIN-Rail mountig kit
------------------------	----------------------

[> Back to top](#)

■ Full size product image



