

Model Information



■ Features

- Controls 4 RS232 devices located virtually anywhere via Ethernet, WLAN or Internet
- LAN 1000/100/10 Ethernet auto-detect
- Supply via Power over Ethernet 802.3af
- NetCom Manager 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, PPP, openVPN
- SSL/AES-256 encryption on Ethernet, WLAN and Internet
- Optional: Wireless network IEEE 802.11b/g/n

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NetCom Plus 411 POE

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■ Overview

The NetCom+ 411 is an industrial-strength network-based serial device servers for connecting four RS232 devices like CNC, PLC, weighting scale, scanner and others directly to a network running TCP/IP. The driver for Windows operating system installs Virtual Com Ports. The network is Gigabit Ethernet or optionally wireless by WLAN 802.11b/g/n, another option is Power over Ethernet.

The NetCom+ Servers use a state-of-the art RISC processor for low power and cost effective design. The 4 and 8 port models are very similar, including the case size. Power supply is via DC adapter, or via Ethernet cable with POE IEEE 802.3af.

The serial ports enable data rates of up to 500kbps, including every non-standard bitrate. See the [FAQ](#).

NetCom+ can be configured over Driver Panels, WEB Browser, serial Port, Telnet, SNMP and serves as a transparent serial channel without platform and distance limitation. As modern devices the NetCom+ provide encryption for all communication.

■ Application

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

■ Interface

Ethernet interface	Auto-detecting 1000BaseT/100BaseTx/10BaseT (GigaLAN) Connector 8P8C (RJ45)
Wireless interface	Optional via internal module IEEE 802.11b/g/n operation in Access Point or Client Mode
Protocols	TCP/IP, UDP, Telnet, PPP, DHCP, ICMP, HTTP, LPD, SNMP V1/2c/3, DNS, openVPN
No. of serial port	4x DSUB 9 male connector (as PC)
Serial interface	RS232
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, GND

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■ Serial Performance

Speed	200 bps to 500 kbps Supports non-standard baudrates
Parity	None, even, odd, mark, space
Data bits	7, 8
Stop bits	1, 2

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■ Operating Modes

Driver Mode	VScom Driver for Windows up to 10, Server up to 2008 R2, both x86 and x64 Editions. The Driver creates a virtual Com port, using VScom NetCom protocol.
Other Modes	TCP Raw Server, TCP Raw Client, Null Modem Tunnel, UDP Mode, Print Server and IP Modem

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■ Power and Environment

Connector	3-pin Terminal Block with Protective Earth
Power requirements	15 - 54V DC, 0.4A @ 19V, 8W
Power over Ethernet	Class 0 Device (802.3af). Typical consumption is 6W.
Dimension	196×147×44 mm ³ (W×L×H)
Operating Temp	-20°C - 65°C
Storage Temp	-20°C – 85°C
Case	SECC sheet metal (1mm)
Weight	0.9kg
Mounting	<ul style="list-style-type: none"> • 19-inch Rack • Wall mount

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■ Standards

Declarations	CE
Safety	EN 60950-1
ESD	EN 61000-4-2 8kV contact 16kV air for <ul style="list-style-type: none"> • Serial Ports • Ethernet • DC Power connector
EMI	<ul style="list-style-type: none"> • EN 55022 Class A • EN 61000-3-2 • EN 61000-3-3

EMS (EN 55024)	EN 61000-4-3
Power (EN 55024)	<ul style="list-style-type: none"> • EN 61000-4-4 • EN 61000-4-5 • EN 61000-4-6

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■ Special Features

Installation	For easy installation the configuration utility NetCom Manager automatically finds NetCom+ devices in the network
Operating mode	Automatic mode switching between Driver and TCP RAW Server mode.
PPP Access	Dial-In to a modem attached to a serial port using Point to Point Protocol. TCP/IP is transported over the serial line, allowing access to configuration and the serial ports, even without Ethernet.
Configuration	Configuration over Driver Panels, NetCom Manager, WEB Browser, serial console, Telnet, SNMP
Firewall	Special precautions for Firewall environments
Firmware	Firmware update over WEB Browser
LEDs	LEDs for Power, Ready, serial Tx, Rx, Ethernet Link, Speed

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■ Security

Password access	Every capabilities of configuration use the same password including SNMP V3
Secure communication	<p>OpenVPN™ SSL tunnel provides security on Ethernet and Internet. The tunnel protects configuration and serial data, especially convenient to use across the Internet. OpenVPN software is available for many systems, including Windows, Linux and Mac OS. Strong encryption by AES up to 256 bit keys.</p>

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■ Ordering Information

6671	NetCom Plus 411 POE (4x RS232, supply via Ethernet)
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■ Options

6689	WLAN Kit internal internal module 802.11b/g/n, pigtail and antenna Purchase time option, not for later retrofitting
6030	Power supply adapter 15V DC, 1A; with terminal block
661	Serial Null-Modem adapter 9PF-9PF, change male to female

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■ Packaging

Packing list	<ul style="list-style-type: none"> • NetCom Plus Serial Device Server • Mounting brackets for 19-inch rack • Wall mount plates • Terminal block for Power Supply • CD-ROM with Driver and configuration software
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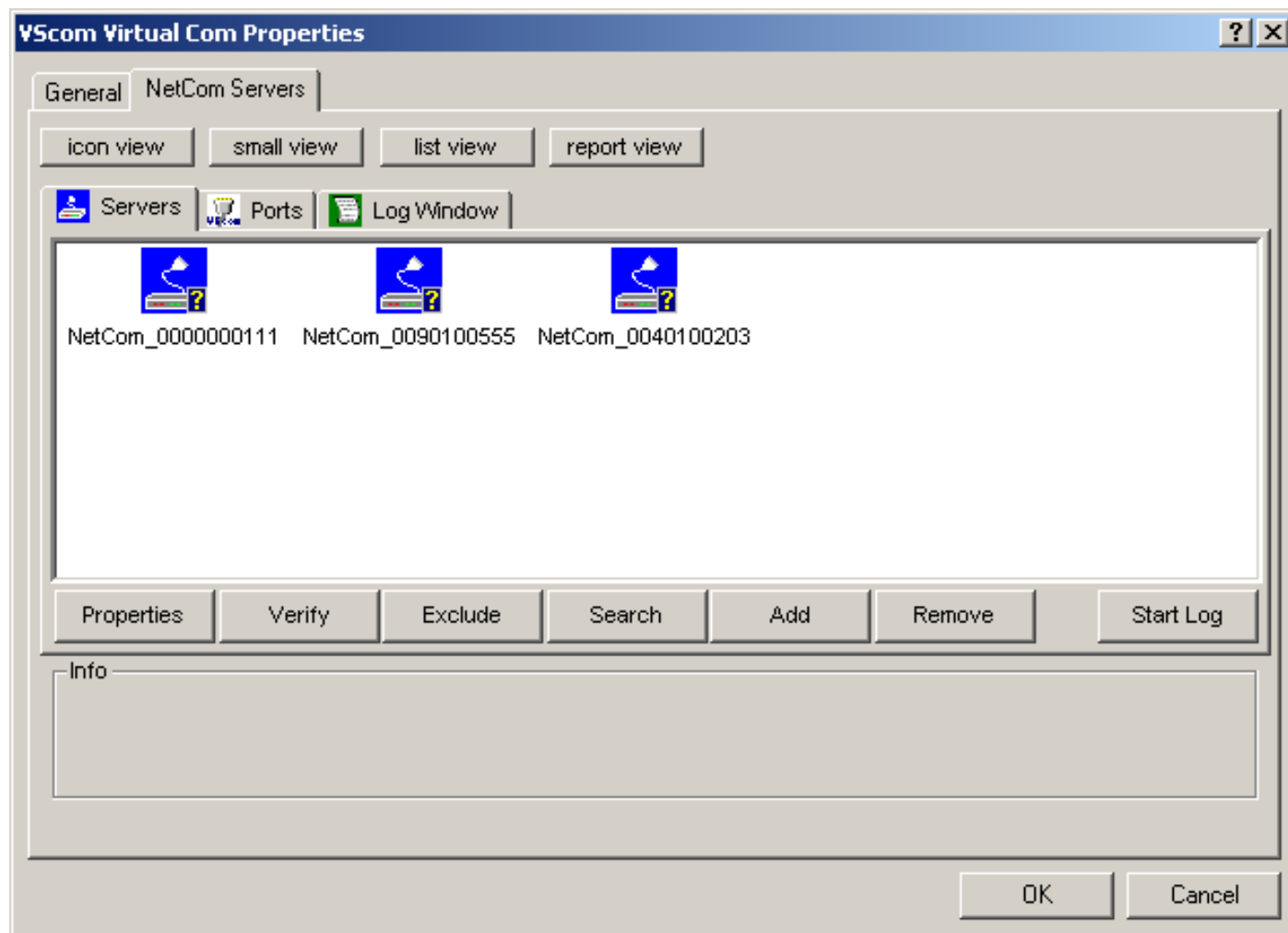
Rackmount Kit

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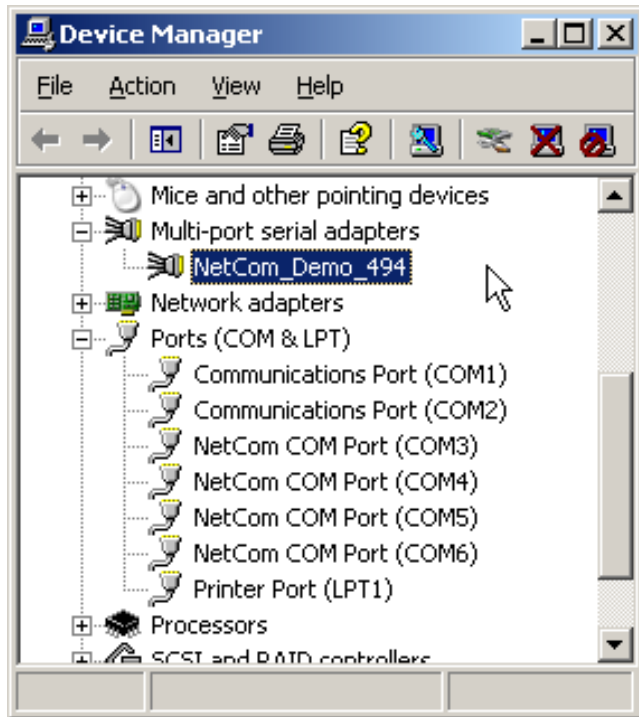
NetCom Manager

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NetCom Plus in Device Manager

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Serial Port in Web Interface

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Port 1	
PortType (current)	rs232
Baud Base	60000000
PortType ?	<input type="text" value="rs232"/>
Baudrate ?	<input type="text" value="38400"/>
Manual ?	38400
FlowType ?	<input type="text" value="None"/>
DataBit ?	<input type="text" value="8"/>
Parity ?	<input type="text" value="None"/>
StopBit ?	<input type="text" value="1"/>
RxFifoLength	1024
RxTriggerLevel ?	<input type="text" value="224"/>
TxFifoLength	1024
TxTriggerLevel ?	<input type="text" value="800"/>