

## Model Information



### ■ Features

- Controls 4 RS232 devices located virtually anywhere via Ethernet, WLAN or Internet
- **New:** Secure Access over Internet by [viaVPN](#)
- 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, UPnP, 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 (NetCom 411, NetCom 411 PRO)

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### ■ Overview

The NetCom+ 411 is an industrial-strength network-based serial device server 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.

Implemented in the NetCom+ Servers is an option to use [the viaVPN system](#) for Remote Access and Monitoring over Internet. [viaVPN](#) provides secure and strong encrypted access, without any re-configuration of firewalls. Once installed in the local network the NetCom+ are used exactly as without the option viaVPN. But at the same time the operation can be monitored from remote locations. If the serial port is not occupied by local access, also Virtual Com Port operation is possible from remote.

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

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

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## ■ Remote Access

<b>Connect via Internet</b>	The <a href="#">system viaVPN</a> provides secure and easy access to remotely installed devices. The installation is quickly done and provides convenient tools to get access from all locations
<b>Security</b>	All connections use VPN-tunnels encrypted by SSL and AES-256. And even when remote access to a NetCom Plus Server is possible, this does not provide access to the network the Server is installed in.
<b>Firewall friendly</b>	Access to the viaVPN Cloud Servers is done like https protocol in a browser. If web pages can be viewed from a location, access to the Cloud is also possible. No re-configuration of firewalls required.

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## ■ Serial Performance

<b>Speed</b>	200 bps to 460.8/500 kbps Supports non-standard baudrates
<b>Parity</b>	None, even, odd, mark, space
<b>Data bits</b>	7, 8
<b>Stop bits</b>	1, 2

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## ■ Operating Modes

<b>Driver Mode</b>	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.
<b>Other Modes</b>	TCP Raw Server, TCP Raw Client, Null Modem Tunnel, UDP Mode, Print Server and IP Modem

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## ■ Power and Environment

<b>Connector</b>	3-pin Terminal Block with Protective Earth
<b>Power requirements</b>	15 - 54V DC, 0.4A @ 19V, 8W
<b>Power over Ethernet</b>	Class 0 Device (802.3af). Typical consumption is 6W.
<b>Dimension</b>	196×147×44 mm <sup>3</sup> (W×L×H)
<b>Operating Temp</b>	-20°C - 65°C
<b>Storage Temp</b>	-20°C - 85°C
<b>Case</b>	SECC sheet metal (1mm)
<b>Weight</b>	0.9kg

## Mounting

- 19-inch Rack
- Wall mount

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## ■ Standards

### Declarations

CE, FCC

### EMI

- EN 55022 Class B
- EN 61000-3-2: Limits of harmonic current emissions
- EN 61000-3-3: Limitation of voltage changes
- 47 CFR FCC Part 15 Subpart B

### EMS (EN 55024)

- EN 61000-4-3: Radiated RFI
- EN 61000-4-4: Electrical Fast Transient
- EN 61000-4-5: Surge
- EN 61000-4-6: Induced RFI
- EN 61000-4-8: Power Frequency Magnetic Field
- EN 61000-4-11: Power supply dips

### ESD

EN 61000-4-2 4kV contact 8kV air for

- Serial Ports
- USB
- Ethernet
- DC Power connector

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## ■ Special Features

### Installation

For easy installation the configuration utility NetCom Plus Manager automatically finds NetCom+ devices in the network

### Operating mode

Automatic mode switching between Driver and TCP RAW Server mode.

### 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

### UPnP

The NetCom Plus Serial Device Servers announce their presence in the network using the protocol UPnP. This way it is most easy to know the IP Address and to open the web interface for configuration.

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## ■ Security

### Password access

Every capabilities of configuration use the same password including SNMP V3

### Secure communication

[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.

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## ■ Ordering Information

### 6671

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

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## ■ Options

### 6679

Activate option [viaVPN](#) for secure remote access over Internet

### 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

### [661](#)

Serial Null-Modem adapter 9PF-9PF, change male to female

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## ■ Packaging

### Packing list

- NetCom Plus Serial Device Server
- Mounting brackets for 19-inch rack
- Wall mount plates
- Terminal block for Power Supply

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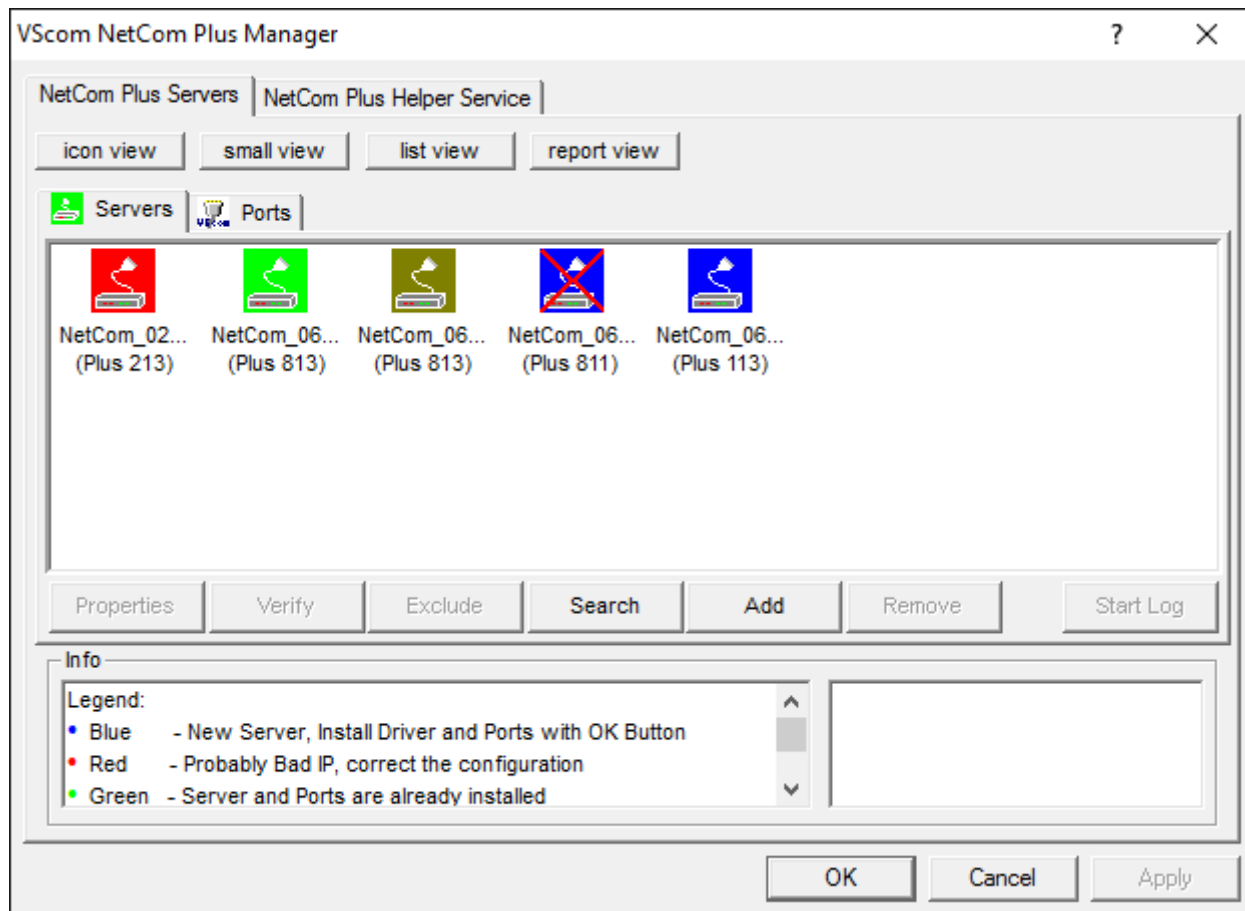
### Rackmount Kit

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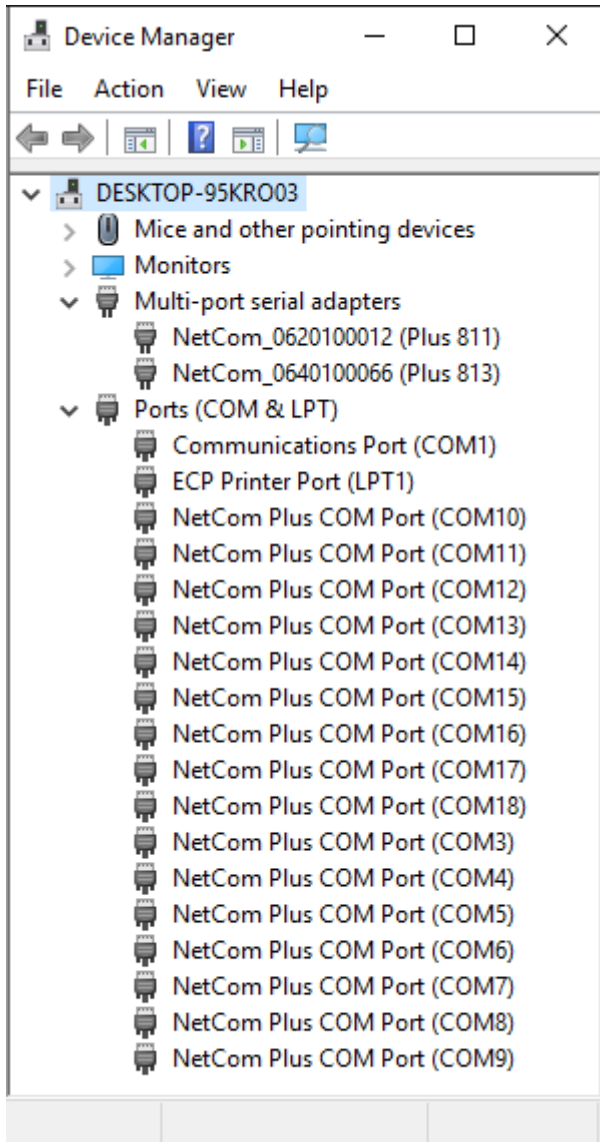
## NetCom Plus Manager

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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"/>

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## Remote Access option

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