

## Model Information



### ■ Features

- Controls 8 RS232 devices located virtually anywhere via Ethernet, WLAN or Internet
- Port expansion over USB A connector
- LAN 1000/100/10 Ethernet auto-detect
- 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
- Optional: 3G/4G Modem for mobile networks

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# NetCom Plus 811

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## ■ More Pictures



Port 1	Port 1
PortType (current)	rs232
Base Rate	40000000
PortType?	rs232
BaseRate?	50000
Manual?	38500
FlowType?	None
Disable?	0
Parity?	None
baudbit?	11
RTFidLength?	1024
RTFidLevel?	500
TXidLength?	1024
TXidLevel?	500

Click on the thumbnails for the large picture ...

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## ■ Overview

The NetCom+ 811 is an industrial-strength network-based serial device servers for connecting eight 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 optionally via Ethernet cable with POE IEEE 802.3af.

The serial ports enable data rates of up to 1000kbps. The ports allow every non-standard bitrate up to 1Mbps. See the [FAQ](#).

The USB 2.0 port supports [USB-COM Plus modules](#), to add more non-isolated and also isolated serial ports. The USB port may also connect external WLAN.

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 or external USB stick  
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

8x DSUB 9 male connector (as PC)  
Expandable by [USB-COM Plus modules](#)

### Serial interface

RS232

### Signals

TxD,RxD, RTS,CTS, DTR,DSR, DCD, GND

### USB port

USB 2.0 High Speed, for WLAN and serial port expansion

### Mini PCIe slot

Option: mPCIe over USB interface for 3G / 4G connections.  
Uses internal SIM slot.

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## ■ Serial Performance

### Speed

200 bps to 921.6/1000 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

9 - 54V DC, 0.5A @ 12V, 6W

### Dimension

196×147×44 mm<sup>3</sup> (W×L×H)

### Operating Temp

-20°C - 65°C

### Storage Temp

-20°C – 85°C

### Case

SECC sheet metal (1mm)

### Weight

0.9kg

### Mounting

- 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

- Serial Ports
- USB
- Ethernet
- DC Power connector

### EMI

- EN 55022 Class A
- EN 61000-3-2
- EN 61000-3-3

### EMS (EN 55024)

EN 61000-4-3

### Power (EN 55024)

- 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, WLAN, 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

[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

### 6680

NetCom Plus 811 (8x RS232, expandable)

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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

### 6690

WLAN Kit external  
USB stick 802.11b/g/n, antenna

6031

Power supply adapter 12V 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
- CD-ROM with Driver and configuration software

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## NetCom Plus 811

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## Model NetCom Plus 811 with WLAN

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NetCom Plus back side

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# Rackmount Kit

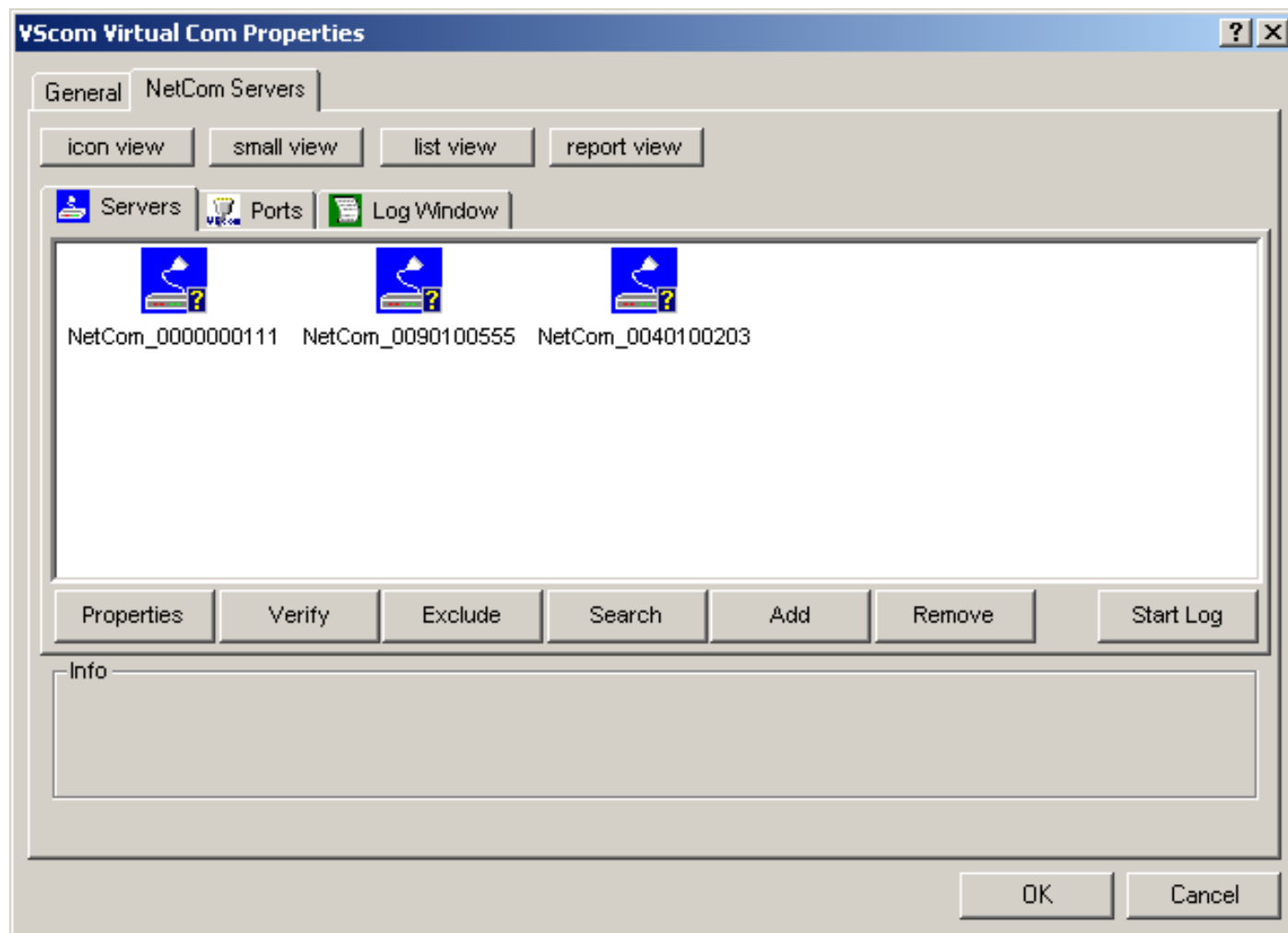
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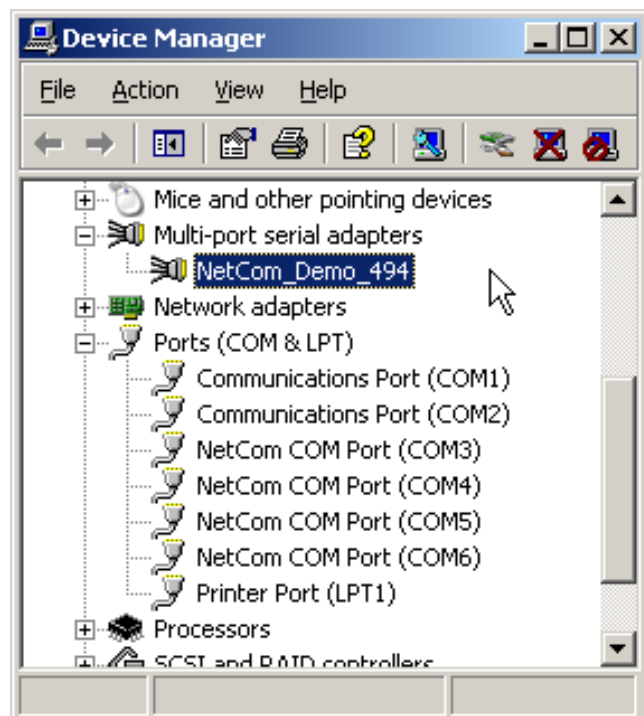
# NetCom Manager

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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"/>