## Model Information

■ Features

- Controls 2 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

Contact Online...

NetCom Plus 211

■ More Pictures
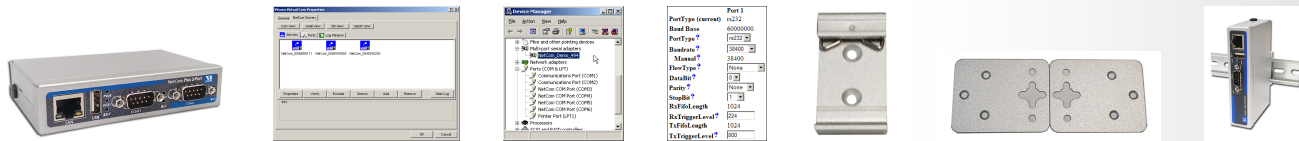
Click on the thumbnails for the large picture ...

■ Overview

The NetCom+ 211 is an industrial-strength network-based serial device servers for connecting two 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.

The NetCom+ Servers use a state-of-the art RISC processor for low power and cost effective design. The 1 and 2 port models are very similar, including the case size. Power supply is via DC adapter. The serial ports enable data rates of up to 1000kbps. The ports also allow every non-standard bitrate up to 150kbps, and many above that (e.g. 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	▪Industrial / Factory / Laboratory automation
▪SCADA system	▪Automatic warehouse control system
▪Building automation system	▪Wafer fabrication system
▪Self-service banking 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	2x DSUB 9 male connector (as PC) Expandable by USB-COM Plus modules
Serial interface	RS232
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND
USB port	USB 2.0 High Speed, for WLAN and serial port expansion

■ Serial Performance

Speed	200 bps to 921.6/1000 kbps Supports non-standard baudrates
Parity	None, even, odd, mark, space
Data bits	5, 6, 7, 8
Stop bits	1, 2

■ 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

■ Power and Environment

Connector	3-pin Terminal Block with Protective Earth
Power requirements	9 - 54V DC, 0.3A @ 12V, 4W
Dimension	115×73×25 mm³ (W×L×H)
Operating Temp	−20°C - 65°C
Storage Temp	−20°C − 85°C
Case	SECC sheet metal (1mm)
Weight	0.25kg
Mounting	• DIN-Rail (optional) • Wall mount (optional)

■ 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
EMS (EN 55024)	EN 61000-4-3
Power (EN 55024)	- EN 61000-4-4 - EN 61000-4-5 - EN 61000-4-6

■ 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

■ 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.

■ Ordering Information

6650	NetCom Plus 211 (2x RS232, expandable)

■ 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
6692	DK-NCP DIN-Rail mounting kit
6693	WK-NCP Wallmount kit

■ Packaging
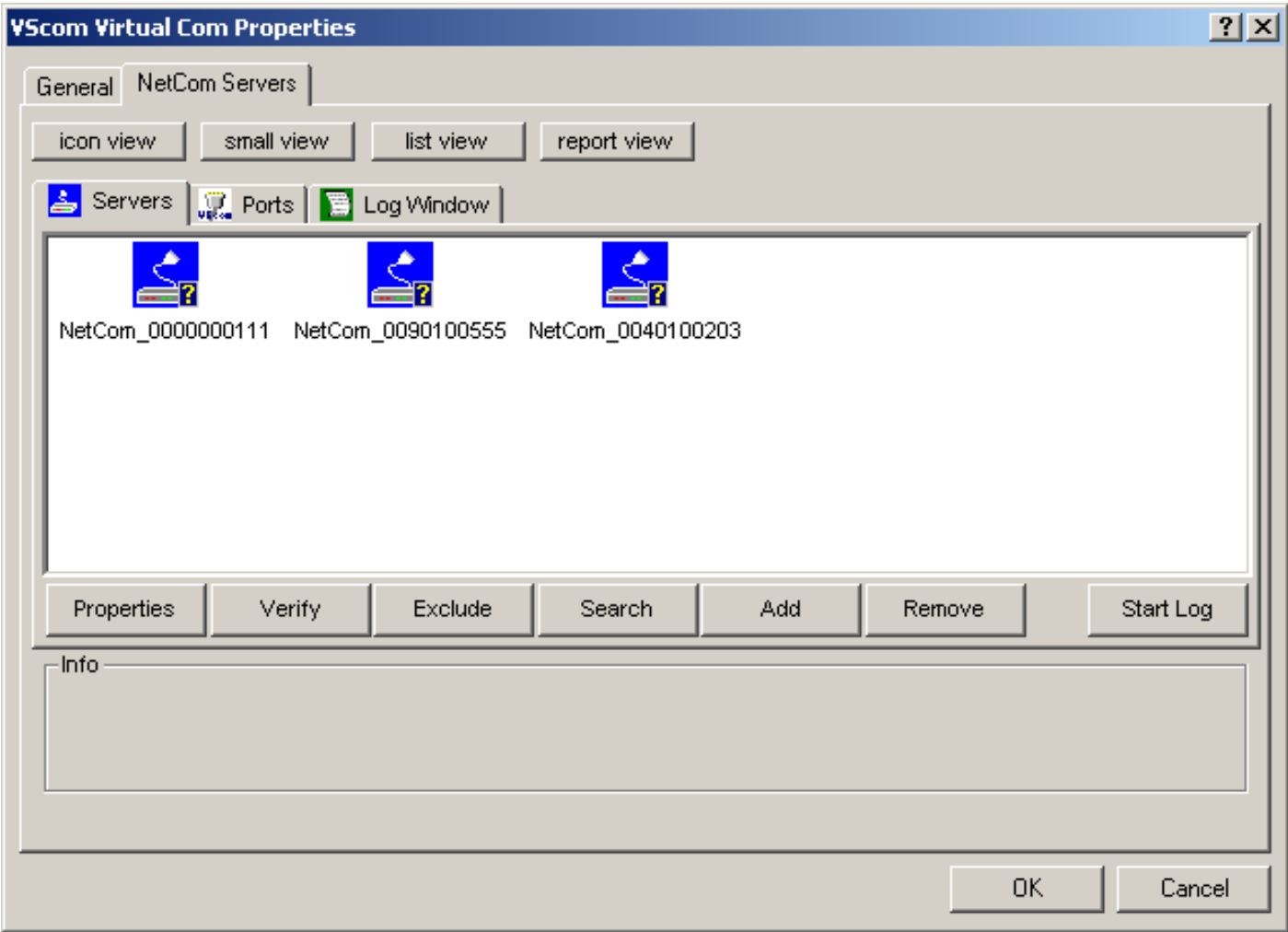
- NetCom Plus Serial Device Server

Packing list

- CD-ROM with Driver and configuration software
- Terminal block for Power Supply

NetCom Plus 211

NetCom Manager

VScom Virtual Com Properties [?] [X]

General | NetCom Servers

| icon view | small view | list view | report view |

Servers | Ports | Log Window

NetCom_0000000111   NetCom_0090100555   NetCom_0040100203

| Properties | Verify | Exclude | Search | Add | Remove | Start Log |

Info

OK   Cancel

NetCom Plus in Device Manager
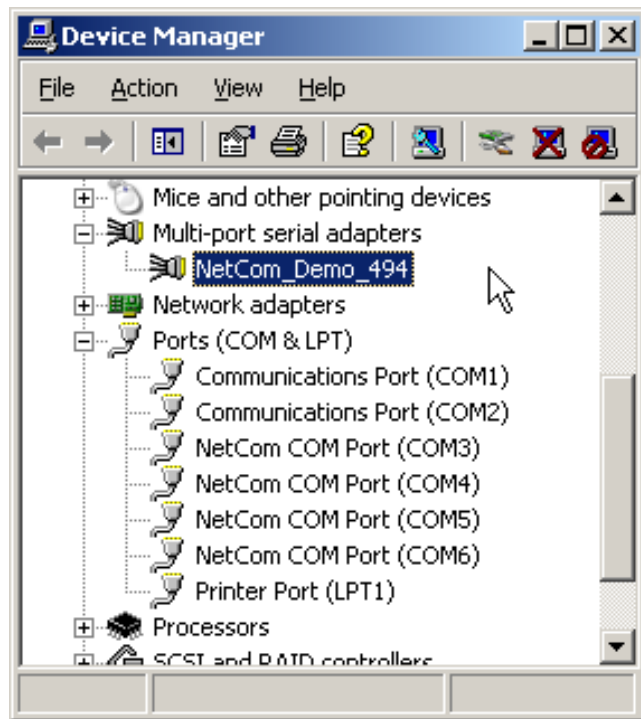
Serial Port in Web Interface

	Port 1
PortType (current)	rs232
Baud Base	60000000
PortType ?	rs232
Baudrate ?	38400
Manual ?	38400
FlowType ?	None
DataBit ?	8
Parity ?	None
StopBit ?	1
RxFifoLength	1024
RxTriggerLevel ?	224
TxFifoLength	1024
TxTriggerLevel ?	800

DIN-Rail Mounting Kit

Wall Mounting Kit

NetCom on DIN-Rail