Model Information

■ Features

- ▪ Controls 8 RS232 devices located virtually anywhere via Ethernet, WLAN or Internet
- ▪ Supply via Power over Ethernet 802.3af
- ▪ **New:** Secure Access over Internet by **viaVPN**
- ▪ 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, 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

Contact Online...

NetCom Plus 811 POE
(NetCom 811, NetCom 811 PRO)

Quick Link: | **Features** | **More Pictures** | **Overview** | **Application** | **Interface** | **Remote Access** | **Serial Performance** | **Operating Modes** | **Power and Environment** | **Standards** | **Special Features** | **Security** | **Ordering Information** | **Options** | **Packaging** |

■ More Pictures

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■ Overview

The NetCom⁺ 811 is an industrial-strength network-based serial device server 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.

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 optionally 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, UPnP, HTTP, LPD, SNMP V1/2c/3, DNS, openVPN
No. of serial ports	8x DSUB 9 male connector (as PC)
Serial interface	RS232
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, GND

■ Remote Access

Connect via Internet	The **system viaVPN** provides secure and easy access to remotely installed devices. The installation is quickly done and provides convenient tools to get access from all locations
Security	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.
Firewall friendly	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.

■ Serial Performance

Speed	200 bps to 460.8/500 kbps Supports non-standard baudrates
Parity	None, even, odd, mark, space
Data bits	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	15 - 54V DC, 0.4A @ 19V, 8W
Power over Ethernet	Class 0 Device (802.3af). Typical consumption is 6W.
Dimension	196×147×44 mm³ (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

■ 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

■ 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.

■ 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

6681	NetCom Plus 811 POE (8x RS232, supply via Ethernet)

■ 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

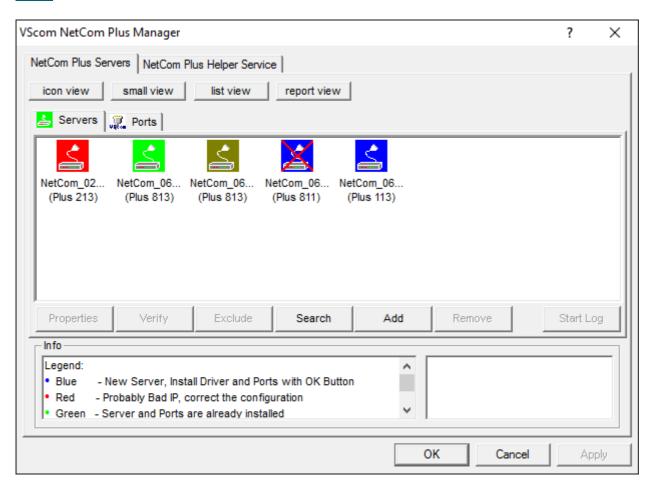| **Packing list**	• NetCom Plus Serial Device Server • Mounting brackets for 19-inch rack • Wall mount plates • Terminal block for Power Supply

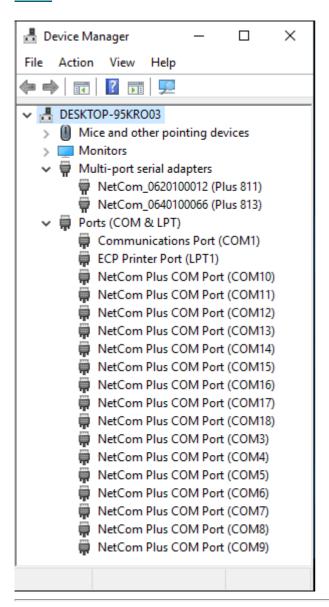## NetCom Plus 811 POE

Model NetCom Plus 811 with WLAN

Rackmount Kit

NetCom Plus Manager

VScom NetCom Plus Manager   ?   ✕

| NetCom Plus Servers | NetCom Plus Helper Service |

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

▸ Servers   Ports

NetCom_02...	NetCom_06...	NetCom_06...	NetCom_06...	NetCom_06...
(Plus 213)	(Plus 813)	(Plus 813)	(Plus 811)	(Plus 113)

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

Info

Legend:
- Blue   – New Server, Install Driver and Ports with OK Button
- Red   – Probably Bad IP, correct the configuration
- Green   – Server and Ports are already installed

| OK | Cancel | Apply |

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

Remote Access option

(2017 Mar 17)