Model Information



■ Features

- Controls 1 RS232/422/485 device located virtually anywhere via Ethernet, WLAN or Internet
- Easy selection of RS232, RS422 or RS485 by single DIP switch or individually by software
- Port expansion over USB A connector
- New: Secure Access over Internet by <u>viaVPN</u>
- 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

Contact Online...

NetCom Plus 123 WLAN

(NetCom 123 WLAN)

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Operating Modes | Power and Environment | Standards | Special Features | Security | Ordering Information | Options |
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■ More Pictures

















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Overview

The NetCom⁺ 123 WLAN is an industrial-strength network-based serial device server for connecting one RS232 device (or RS485 communication line) like CNC, PLC, weighting scale, scanner and others directly to a network running TCP/IP. The driver for Windows operating system installs a Virtual Com Port. The network is Gigabit Ethernet or wireless by WLAN 802.11b/g/n.

Implemented in the NetCom⁺ Servers is an option to use <u>the viaVPN system</u> for Remote Access and Monitoring over Internet. <u>viaVPN</u> 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 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 3.7Mbps in RS422/485 or 1000kbps in RS232 modes. The ports also allow every non-standard bitrate up to 150kbps, and many above that (e.g. 1Mbps). See the FAO.

The USB 2.0 port supports <u>USB-COM Plus modules</u>, to add more non-isolated and also isolated serial ports.

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	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	1x DSUB 9 male connector (as PC) Expandable by <u>USB-COM Plus modules</u>
Serial interface	RS232/422/485 selected by software or DIP-switch
Available Modes	 RS232 full duplex RS422 full duplex (120Ω on/off) RS485 4 wire, full duplex (120Ω on/off) RS485 2 wire, half duplex (120Ω on/off) Internal Termination, controlled by operation mode BIAS resistors not required
Signals	 RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND RS422: Tx+/-, Rx+/-, GND RS485 2 wire: Data+/-, GND RS485 4 wire: Tx+/-, Rx+/-, GND
RS485 Data control	Controlled by ART (Automatic Receive Transmit control)
USB port	USB 2.0 High Speed, for serial port expansion
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Remote Access

Connect via Internet	The <u>system viaVPN</u> 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.
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■ Serial Performance

Speed	RS232: 200 bps to 921.6/1000 kbps RS422/485: 200 bps to 3.7Mbps Supports non-standard baudrates
Parity	None, even, odd, mark, space
Data bits	5, 6, 7, 8
Stop bits	1, 2

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■ Operating Modes

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.

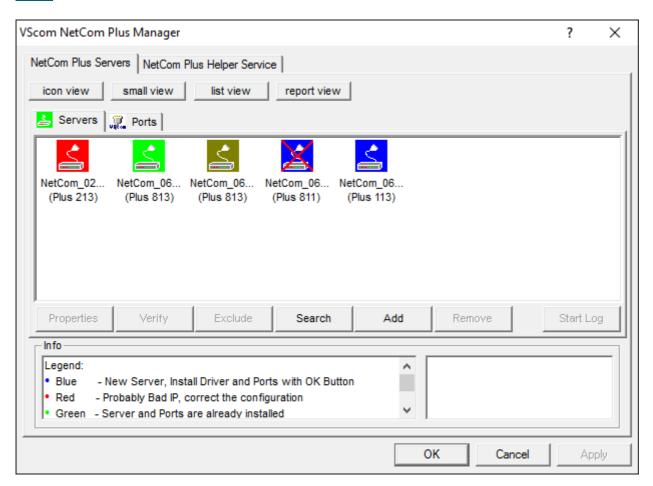
Other Modes	TCP Raw Server, TCP Raw Client, Null Modem Tunnel, UDP Mode, Print Server and IP Modem
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■ Power and Environment	
Connector	3-pin Terminal Block with Protective Earth
Power requirements	9 - 54V DC, 0.3A @ 12V, 4W
Dimension	115×73×25 mm³ (W×L×H)
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)
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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 Port USB Ethernet DC Power connector
■ Special Features	>Back to top
•	For easy installation the configuration utility NetCom Plus Manager
Installation	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, WLAN, 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. >Back to top
■ 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	
6646	NetCom Plus 123 WLAN (1x RS232/422/485, expandable)
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■ Options	
6679	Activate option viaVPN for secure remote access over Internet
6031	Power supply adapter 12V DC, 1A
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female
<u>663</u>	5-pin Terminal block adapter to DB9 female
<u>6061</u>	RJ45 adapter to DB9 female
6692	DK-NCP DIN-Rail mounting kit
<u>6693</u>	WK-NCP Wallmount kit >Back to top
■ Packaging	
Packing list	 NetCom Plus Serial Device Server Antenna Terminal block for Power Supply >Back to top

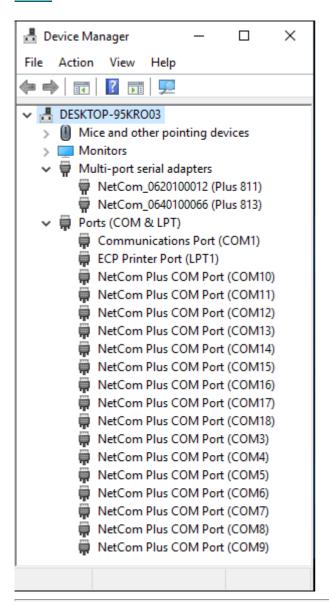
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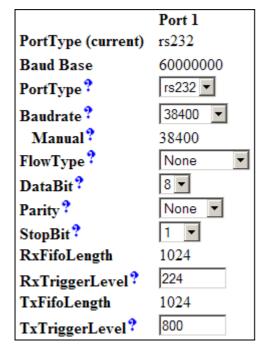
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