Model Information



■ Features

- Controls 1 RS232 device located virtually anywhere via Ethernet, WLAN or Internet
- Port expansion over USB A connector
- LAN 1000/100/10 Ethernet auto-detect
- New: Secure Access over Internet by viaVPN
- 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 111

(NetCom 111)

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■ More Pictures

















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Overview

The NetCom⁺ 111 is an industrial-strength network-based serial device server for connecting one RS232 device 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 optionally wireless by WLAN 802.11b/g/n.

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 1 and 2 port models are very similar, including the case size. Power supply is via DC adapter.

The serial port enables data rates of up to 1000kbps. The port also allows every non-standard bitrate up to 150kbps, and many above that (e.g. 1Mbps). See the <u>FAQ</u>.

The USB 2.0 port supports <u>USB-COM Plus modules</u>, 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

The **system viaVPN** provides secure and easy access to remotely

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■ 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, 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
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND
USB port	USB 2.0 High Speed, for WLAN and serial port expansion

■ Remote Access

Connect via Internet	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 921.6/1000 kbps 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

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 1	115×73×25 mm³ (W×L×H)
Operating Temp	−20°C - 65°C

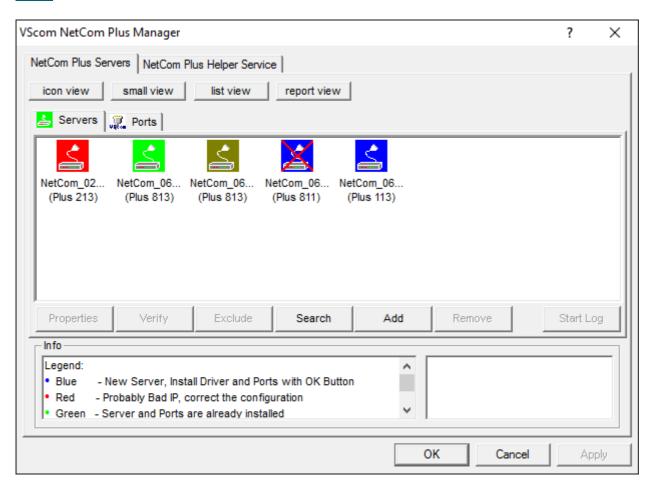
Storage Temp	–20°C – 85°C	
Case	SECC sheet metal (1mm)	
Weight	0.25kg	
_	DIN-Rail (optional)	
Mounting	Wall mount (optional)	
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■ Standards		
Declarations	CE, FCC	
EMI	 EN 55022 Class B EN 61000-3-2: Limits of harmonic current emissions EN 61000-3-3: 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 	
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■ Special Features	For each installation the configuration utility NotCom Dive Manager	
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, 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	NetCere Dive 111 (1) DC222 server delte)	
6640	NetCom Plus 111 (1x RS232, expandable) >Back to top	
■ Options	<u> </u>	
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	
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6690	WLAN Kit external USB stick 802.11b/g/n, antenna	
6031	Power supply adapter 12V DC, 1A	
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to	female
6692	DK-NCP DIN-Rail mounting kit	
6693	WK-NCP Wallmount kit	>Back to top
■ Packaging		
Packing list	NetCom Plus Serial Device ServerTerminal block for Power Supply	>Back to top

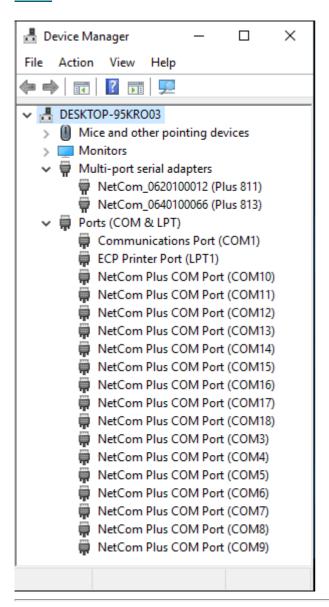
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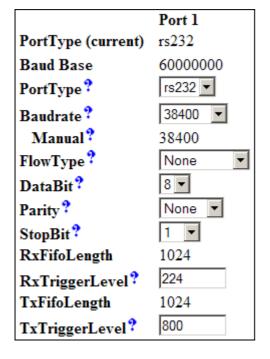
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Wall Mounting Kit >Back



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