Model Information

Features

- **Now available**
- Controls 1 RS232 device located virtually anywhere via Ethernet or Internet
- LAN 100/10 Ethernet auto-detect
- **New:** Secure Access over Internet by **viaVPN**
- NetCom Plus 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 and Internet

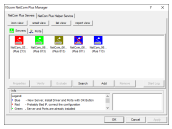
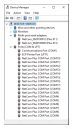
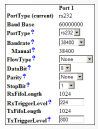
Contact Online...

NetCom Plus 111 Mini

(NetCom 111, NetCom Mini)

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

Click on the thumbnails for the large picture ...

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Overview

The NetCom+ 111 Mini 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 Fast 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+ Mini uses a special RISC processor for very low power and cost effective design. Power supply is via DC adapter.
The serial port enables 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 100BaseTx/10BaseT (Fast Ethernet) Connector 8P8C (RJ45)
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)
Serial interface	RS232
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND

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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.

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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

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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	2-pin Terminal Block
Power requirements	9 - 30V DC, 80mA @ 12V, 1W
Dimensions	50×72×22 mm³ (W×L×H) Case 72×72×22 mm³ (W×L×H) with mounting wings
Operating Temp	−20°C - 65°C
Storage Temp	−20°C – 85°C
Case	SECC sheet metal (1mm)
Weight	0.10kg
Mounting	• DIN-Rail (optional) • Wall mount

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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 • Ethernet • DC Power connector

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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.

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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

6643	NetCom Plus 111 Mini (1x RS232)

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Options

6679	Activate option **viaVPN** for secure remote access over Internet
6031	Power supply adapter 12V DC, 1A
661	Serial Null-Modem adapter 9PF-9PF, change male to female
662	DK 35A DIN-Rail mounting kit

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Packaging

Packing list	• NetCom Plus Serial Device Server • Terminal block for Power Supply

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NetCom Plus 111 Mini

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NetCom Plus Mini LAN Side

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Top Side
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NetCom Plus Manager

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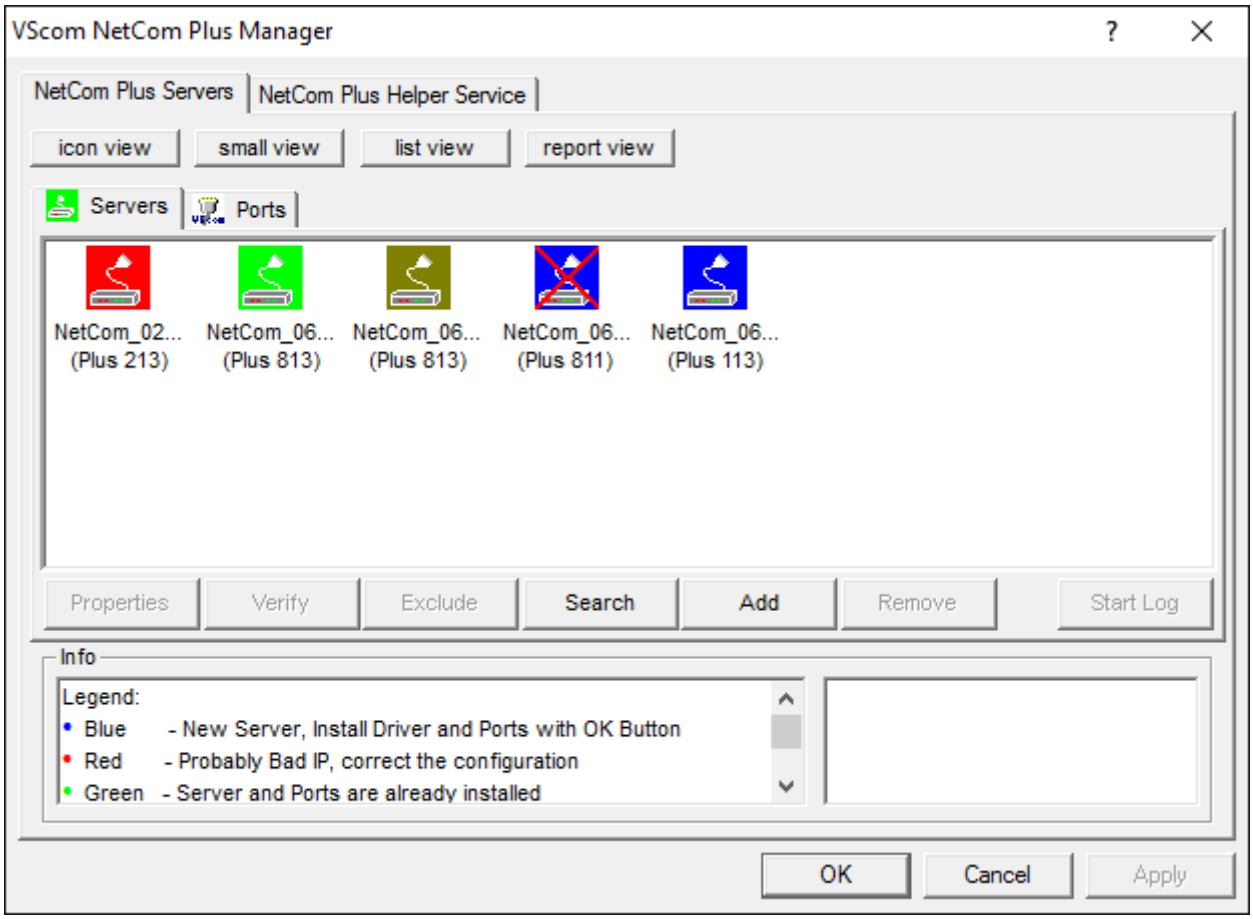

NetCom Plus in Device Manager

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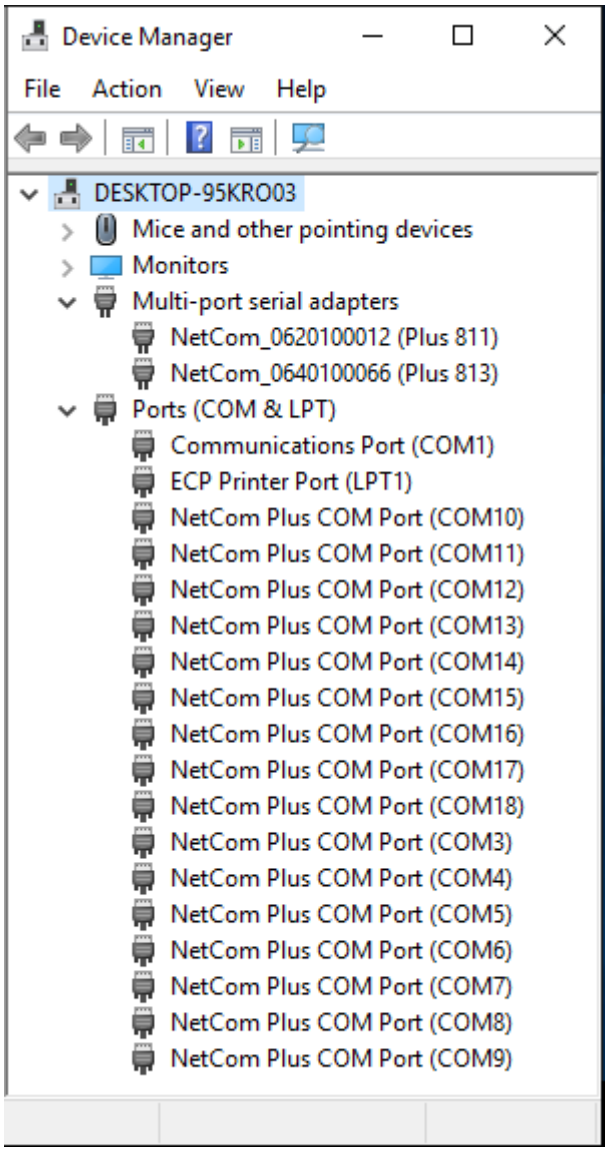

Serial Port in Web Interface

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

DIN-Rail Kit

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Remote Access option

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viaVPN®

(2017 Apr 03)