Model Information



Main Features

- Ethernet to serial 8 port RS232
- Virtual Com Port driver for Windows
- Secure Server with latest SSL/AES-256 encryption
- Operation in Driver Mode, TCP/IP and many other
- Quick Configuration over Driver and Browser
- ESD protection on serial ports, Ethernet, DC power
- 19"Rack and Wall mount options
- Optional: Wireless network IEEE 802.11b/g/n
- Optional: 3G/4G Modem for mobile networks
- Optional: Power supply via Ethernet (model POE)
- Port expansion over USB

Contact Online...

NetCom Plus 811

(NetCom 811, NetCom 811 PRO)

Quick Link: | Main Features | More Pictures | Overview | Ethernet Interface | Serial Interface | Serial Port Expansion |
Software | Installation & Configuration | Security | viaVPN Remote Access (option) | Wireless interface (option) |
3G/4G Modem Interface (option, not on POE version) | Power Requirements | Housing and Mounting | Environmental
Data | Standards | MTBF (Mean Time Between Failures) | Warranty | Ordering Information | Options | Packaging |

More Pictures



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Overview

The Ethernet to Serial Gateways NetCom Plus connect RS232 or RS485 devices to a network running TCP/IP. These Serial Device Servers are rugged industrial devices with metal case and wall or 19"-Rack mounting, further supported by ESD protection on serial ports, power input and USB. The NetCom⁺ 811 provides eight RS232 ports.

Windows Driver installs Com Ports

The driver for Windows operating system installs Virtual Com Ports. These operate in the same way as built-in ports, but via Ethernet or optional WLAN 802.11b/g/n. Easy-to-use Installation and Management software guides users trough the configuration.

High Speed Serial Ports, Low Power

The serial ports allow data rates of up to 12Mbps in RS422/485 or 1000kbps in RS232 modes. The ports also allow every non-standard bitrate up to 3.5Mbps, and many more (e.g. 5Mbps). See <u>FAQ</u>. The USB 2.0 port supports <u>USB-COM Plus modules</u>, to add more standard or isolated serial ports. The USB port may also connect external WLAN.

The gateways demand 6W of power or less. The flexible input allows for various sources of customers choice. This includes Power-over-Ethernet in POE-models.

Easy Configuration, versatile Operation Modes

NetCom⁺ are configured over Driver Panels and WEB Browser. This is also possible via serial Port, Telnet or SNMP. NetCom⁺ provide Driver Mode, TCP/IP or UDP connection, and many operation modes beyond those.

Secure Remote Access for Monitoring

Configuration

Firmware Update

Firewall

For NetCom Plus series there is a software option using the viaVPN Cloud system (www.viaVPN.com) to be remotely accessed and monitored over Internet. viaVPN provides secure and strongly encrypted access, without any reconfiguration of existing firewalls. The access to the firmware via Ethernet or WLAN is extended by viaVPN over Internet, protected by a VPN tunnel. If the Com ports are not occupied by local access, also remote operation over Internet is possible.

•	over Internet, protected by a VPN tunnel. If the Com remote operation over Internet is possible.	ports are not
■ Ethernet Interface		
Speed/Type	100Mbps/10Mbps Auto-detecting	
Connector	RJ45 (8P8C) 8 pin	
LEDs	Power, WLAN, Ready, Ethernet Link / Speed	>Back to top
■ Serial Interface		
No. of Ports/Type	8 × RS232	
Connector	DB-9 male	
Protection	16kV ESD surge protection	
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, GND	
Data bits	7, 8	
Stop bits	1, 2	
Parity	None, Even, Odd, Mark, Space	
Flow Control	RTS/CTS, XON/XOFF	
Baudrate	200 bps to 921.6/1000 kbps POE version: 200 bps to 460.8/500 kbps Supports non-standard baudrates	
LEDs	TxD/RxD for each port	
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■ Serial Port Expansion		
Connector	USB 2.0 High Speed type A, 500mA @5V at rear side Not available on PoE version NetCom Plus 811 POE	
Expansion Options	Connect USB-4COM Plus (4 ports) or USB-8COM Plus (4 devices to add more serial ports to NetCom Plus server electrically isolated versions	• •
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■ Software		
Network Protocols	TCP, UDP, Telnet, PPP, DHCP, ICMP, UPnP, HTTP, LPD, DNS, openVPN	SNMP V1/2c/3,
Virtual-COM Mode	Driver creates virtual COM ports via NetCom protocol © for Windows XP/7/8/10, Win-Server 2003 to 2008 R2 (x86/x64)	
Socket Modes	TCP RAW Server, TCP RAW Client, UDP Mode, Print Server Automatic switching between Virtual-COM and TCP-RAW Server modes.	
Tunnel Modes	Null Modem Tunnel and IP Modem	
Fixed TTY Drivers	socat Tool, Linux OS	>Back to top
■ Installation & Configuration	on	
Installation	NetCom Plus Manager automatically finds NetCom Plus local network.	devices in the
UPnP	With Network discovery enabled NetCom Plus servers a presence via UPnP making their IP visible.	announce their

Telnet console or SNMP

via WEB Browser

Virtual-COM mode works through firewalls

via WEB-Browser, Driver Panels, NetCom Manager, serial console,

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■ Security		
Password Protection	for all available configuration options e.g. via WEB-Browser	
Secure Server	create openVPN $^{\text{\tiny{M}}}$ tunnels, for encrypted transmission of all serial and configuration data using high security SSL/TLS standards.	
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viaVPN Remote Access (of Connect via Internet	<u>viaVPN</u> technology provides easy and secure access to remotely installed NetCom Plus servers for their configuration or for connecting their virtual COM ports through Internet. With the viaVPN option the NetCom Plus servers are no more limited to only work inside of a local	
Security	network. All communications use openVPN-tunnels encrypted by SSL/TLS and AES-256 standards.	
Firewall friendly	No Reconfiguration of firewalls is required for viaVPN remote access. >Back to top	
■ Wireless interface (option	1)	
Standards	2.4GHz Radio, supports IEEE Std. 802.11b/g/n	
WLAN Modes	Access Point (AP) or Client (Station)	
TX Power	802.11b: Typ. 15.5dBm ±1.5 dBm @ 1Mbps (DSSS) Typ. 15.5dBm ±1.5 dBm @ 11Mbps (OFDM) 802.11g: Typ. 15.6dBm ±1.5 dBm @ 6Mbps (CCK) Typ. 13.5dBm ±1.5 dBm @ 54Mbps (OFDM) 802.11n: Typ. 13.4dBm ±1.5 dBm @ 6.5Mbps (OFDM) Typ. 13.3dBm ±1.5 dBm @ 150 Mbps(OFDM)	
RX Sensitivity	802.11b: -95.6dBm @ 1Mbps, -88dBm @ 11Mbps 802.11g: -91.3dBm @ 6Mbps, -74.2dBm @ 54 Mbps 802.11n: -88.8dBm @ 6.5Mbps (20 MHz), -72dBm @ 72.2Mbps (20 MHz)	
Transmission Rate	802.11b: 11Mbps 802.11g: 6 to 54Mbps 802.11n: 6.5 to 150Mbps	
Transmission Distance	Up to 100m in open areas	
Wireless security	WEPWPAWPA2WPA2-Enterprise (IEEE 802.1X/RADIUS)	

■ 3G/4G Modem Interface (option, not on POE version)

mPCIe Slot	Built-in internal Mini PCI Express Slot connected to USB 2.0 HS 3.3V at mPCIe slot is switched ON/OFF via firmware to securely reset 3G/4G modems
SIM Slot	Built-in internal SIM Card slot

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3G/4G ModemsDifferent 3G/4G Modem models are supported by NetCom Plus

RP (Reverse-Polarity) SMA

firmware

Antenna Connector

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■ Power Requirements		
Input Voltage	9 - 54V DC POE: 15 - 54V DC	
Power Consumption	0.4A @ 12V, 5W max POE: 0.4A @ 19V, 8W max	
Connector	3-pin Terminal Block	
Power over Ethernet	PoE Class 0 Device, IEEE 802.3.af, 8W max. Automatic switch between PoE and local power for POE Version only	
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■ Housing and Mounting	O Omens about motal	
Case	0.8mm sheet metal	
Weight	w/o box 0.9kg; w/h box 1.5kg	
Dimensions	196×147×44 mm³ (W×L×H)	
Packaged	310×192×60 mm ³	
Mounting	19-inch RackWall mount	>Back to top
■ Environmental Data		- Duck to top
Operating Temp	-20°C - 65°C	
Storage Temp	-20°C - 85°C	
Ambient Humidity	5-95% non condensing	
, ,	2 22 70 11311 G311G311G111G	>Back to top
■ 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 	
MTDE (Many Time Patrons	n Enilures)	>Back to top
■ MTBF (Mean Time Betwee	21.4 Years @ 25°C	
MTBF	8.9 Years @ 45°C	
MTBF POE version	20.4 Years @ 25°C 8.5 Years @ 45°C	
Standard	Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7	>Back to top
■ Warranty		
Warranty Period	2 years	>Back to top
■ Ordering Information		

6680	NetCom Plus 811 (8x RS232, expandable)
<u>6681</u>	NetCom Plus 811 POE (8x RS232, supply via Ethernet)
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■ Options	
6031	Power adapter 110-230V AC to 12V @1A, DC, EU plug
6034	Power adapter 110-230V AC to 12V @1A, DC, US plug
6030	Power adapter 110-230V AC to 15V @1A, DC, EU plug
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
3304	3G-Modem GSM/UMTS/HSDPA for mPCIe incl. IPEX cable & SMA Antenna
<u>6061</u>	DB9F-to-RJ45 for changing from DB9 to CAT5 wiring (Optimised for RS422/485 operating modes)
<u>6062</u>	RJ45-to-DB9M for changing back from CAT5 to DB9 wiring (Required to match the DB9 pinout at NetCom Plus)
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to female >Back to top
■ Packaging	
Packing list	 NetCom Plus Serial Device Server Terminal block for Power Supply 19-inch Rack Mounting brackets Wall mounting kit

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Model NetCom Plus 811 with WLAN >Back



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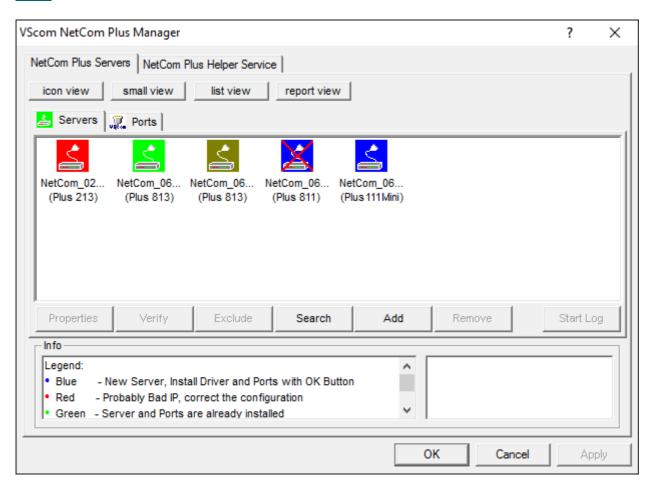
External WLAN (demonstrated on Baltos iR 2110) >Back



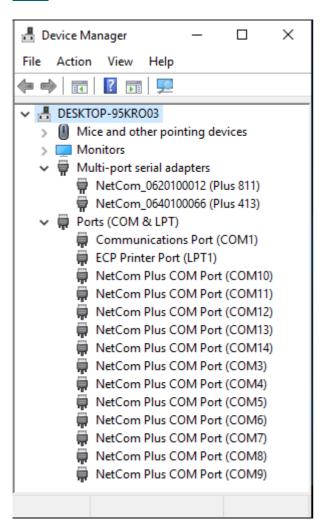
Rackmount Kit >Back



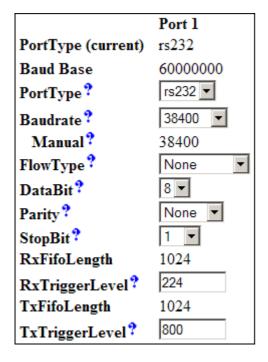
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Remote Access option >Back



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