Model Information



Main Features

- Ethernet to serial 8 port RS232/422/485
- 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 813

(NetCom 813, NetCom 813RM 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) | 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⁺ 813 provides eight RS232/422/485 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

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.

occupied by local access, also r	emote operation over internet is possible.	
■ 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	$8 \times RS232/422/485$ selected by DIP-switch or software	
Connector	DB-9 male	
Protection	16kV ESD surge protection	
Operating Modes	• RS232 • RS422 full duplex (120 Ω on/off) • RS485 4 wire, full duplex (120 Ω on/off) • RS485 2 wire, half duplex (120 Ω on/off)	
Configuration	One DIP switch sets operating mode and RS422/485 ter Software can configure the ports individually No High/Low biasing resistors needed	mination
Signals	 RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, GND RS422: Tx+/-, Rx+/-, GND RS485 4 wire: Tx+/-, Rx+/-, GND RS485 2 wire: Data+/-, GND 	
RS485 Data Direction Control	ARTc (Automatic Receive Transmit control)	
Data bits	7, 8	
Stop bits	1, 2	
Parity	None, Even, Odd, Mark, Space	
Flow Control	RTS/CTS, XON/XOFF	
Baudrate	 RS232: 180bps - 921.6/1000kbps RS422: up to 12Mbps RS485: up to 12Mbps Supports non-standard baudrates 	
LEDs	TxD/RxD for each port	>Back to top
■ Serial Port Expansion		
Connector	USB 2.0 High Speed type A, 500mA @5V at rear side	
Expansion Options	Connect USB-4COM Plus (4 ports) or USB-8COM Plus (8 devices to add more serial ports to NetCom Plus server, electrically isolated versions	
		>Back to top
■ Software		
Network Protocols	TCP, UDP, Telnet, PPP, DHCP, ICMP, UPnP, HTTP, LPD, S DNS, openVPN	SNMP V1/2c/3,
Virtual-COM Mode	Driver creates virtual COM ports via NetCom protocol © Windows XP/7/8/10, Win-Server 2003 to 2008 R2 (x86/	
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 & Configura	
Installation	NetCom Plus Manager automatically finds NetCom Plus devices in the local network.
UPnP	With Network discovery enabled NetCom Plus servers announce their presence via UPnP making their IP visible.
Configuration	via WEB-Browser, Driver Panels, NetCom Manager, serial console, Telnet console or SNMP
Firewall	Virtual-COM mode works through firewalls
Firmware Update	via WEB Browser
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■ Security	
Password Protection	for all available configuration options e.g. via WEB-Browser
Secure Server	create openVPN $^{\text{\tiny TM}}$ tunnels, for encrypted transmission of all serial and configuration data using high security SSL/TLS standards.
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■ viaVPN Remote Access ((option)
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 loca network.
Security	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 (opti	on)
Standards	2.4GHz Radio, supports IEEE Std. 802.11b/g/n
WLAN Modes	Access Point (AP) or Client (Station)

■ Wireless interface (o)	ption)
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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

### Antenna Connector ### RP (Reverse-Polarity) SMA ### Signature (option) ### Signature (option) ### Signature (option) ### Built-in internal Mini PCI Express Slot connected to USB 2.0 HS 3.3 V at mPCIe slot is switched ON/OFF via firmware to securely reset 3G/4G modems ### Signature (option) ### Signature (Wireless security	WEPWPAWPA2WPA2-Enterprise (IEEE 802.1X/RADIUS)	
### 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 3G/4G Modems Different 3G/4G Modem models are supported by NetCom Plus firmware Power Requirements Input Voltage 9 - 54V DC Power Consumption 0,4A @ 12V, 5W max Connector 3-pin Terminal Block PoE Class 0 Device, IEEE 802.3.af, 8W max. Automatic switch between PoE and local power for POE Version only B Housing and Mounting Case 0.8mm sheet metal Weight w/o box 0.9kg; w/h box 1.5kg Dimensions 196x147x44 mm² (WxLxH) Packaged 310x192x60 mm² Mounting 19-inch Rack Wall mount Plain Rock Wall mount B Environmental Data Operating Temp -20°C - 65°C Storage Temp -20°C - 85°C Ambient Humidity 5-95% non condensing B Standards Declarations CE, FCC E EN 55022 Class B EMI EN 55022 Class B EMI EN 61000-3-3: Limitation of voltage changes 4 7 CFR FCC Part 15 Subpart B E MS (EN 55024) E MS (1000-4-3: Radiated RFI E EN 61000-4-3: Radiated RFI E EN 61000-4-5: Surge E EN 61000-4-5: Surge E EN 61000-4-7: Nurser supply dips E EN 61000-4-7: Rower Srequency Magnetic Field E EN 61000-4-7: Surge E EN 61	Antenna Connector	RP (Reverse-Polarity) SMA	
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### PCTe Slot 3.3V at mPCTe slot is switched ON/OFF via firmware to securely reset 3G/4G modems #### SIM Slot Built-in internal SIM Card slot Different 3G/4G Modem models are supported by NetCom Plus firmware Power Requirements	■ 3G/4G Modem Interface (option)	
### Different 3G/4G Modem models are supported by NetCom Plus firmware Power Requirements	mPCIe Slot	3.3V at mPCIe slot is switched ON/OFF via firmware to	
Power Requirements	SIM Slot	Built-in internal SIM Card slot	
Input Voltage Power Consumption O.4A @ 12V, 5W max Connector 3-pin Terminal Block Power over Ethernet Poet Class 0 Device, IEEE 802.3.af, 8W max. Automatic switch between PoE and local power for POE Version only ■ Housing and Mounting Case Weight Wo box 0.9kg; w/h box 1.5kg Dimensions 196x147x44 mm³ (WxLxH) Packaged 310x192×60 mm³ Mounting ■ 19-inch Rack • Wall mount ■ Environmental Data Operating Temp -20°C - 65°C Storage Temp -20°C - 85°C Ambient Humidity ■ Standards Declarations CE, FCC ■ 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 ■ EN 61000-4-4: Electrical Fast Transient ■ EN 61000-4-3: Radiated RFI ■ EN 61000-4-3: Radiated RFI ■ EN 61000-4-6: Induced RFI ■ EN 61000-4-6: Induced RFI ■ EN 61000-4-8: Power Frequency Magnetic Field ■ EN 61000-4-2! AkV contact 8kV air for ■ Serial Ports ■ USB ■ Ethernet ■ DC Power connector	3G/4G Modems	-	
Input Voltage Power Consumption Connector 3-pin Terminal Block PoE Class 0 Device, IEEE 802.3.af, 8W max. Automatic switch between PoE and local power for POE Version only ■ Housing and Mounting Case 0.8mm sheet metal Weight W/o box 0.9kg; w/h box 1.5kg Dimensions 196x147x44 mm³ (WxLxH) Packaged 310x192×60 mm³ Mounting ■ Environmental Data Operating Temp -20°C - 65°C Storage Temp Ambient Humidity ■ Standards Declarations CE, FCC ■ EN 51000-3-2: Limits of harmonic current emissions ■ EN 61000-3-2: Limits of ovoltage changes ■ 47 CFR FCC Part 15 Subpart B ■ EN 61000-4-2: Surge ■ EN 61000-4-6: Induced RFI ■ EN 61000-4-6: Surge ■ EN 61000-4-6: Induced RFI ■ EN 61000-4-2 4kV contact 8kV air for ■ Serial Ports ■ USB ■ Ethernet ■ DC Power connector ■ Back to top	■ Power Requirements		P Buck to top
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Power over Ethernet PoE Class 0 Device, IEEE 802.3.af, 8W max. Automatic switch between PoE and local power for POE Version only ▶Back to top ■ Housing and Mounting Case 0.8mm sheet metal Weight Wo box 0.9kg; w/h box 1.5kg Dimensions 196×147×44 mm³ (W×L×H) Packaged 310×192×60 mm³ Mounting • 19-inch Rack • Wall mount ▶Back to top ■ Environmental Data Operating Temp -20°C - 65°C Storage Temp -20°C - 85°C Ambient Humidity ■ Standards Declarations CE, FCC • 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 ■ EN 61000-4-3: Radiated RFI • EN 61000-4-5: Surge • EN 61000-4-5: Surge • EN 61000-4-6: Induced RFI • EN 61000-4-6: Induced RFI • EN 61000-4-7: Rower Frequency Magnetic Field • EN 61000-4-8: Power Frequency Magnetic Field • EN 61000-4-1: Power supply dips EN 61000-4-2 4kV contact 8kV air for • Serial Ports • USB • Ethernet • DC Power connector	•		
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Dimensions 196×147×44 mm³ (W×L×H)	Case	0.8mm sheet metal	
Mounting	Weight	w/o box 0.9kg; w/h box 1.5kg	
Mounting • 19-inch Rack • Wall mount >Back to top ■ Environmental Data Operating Temp -20°C - 65°C Storage Temp -20°C - 85°C Ambient Humidity 5-95% non condensing >Back to top ■ Standards Declarations CE, FCC • EN 55022 Class B • EN 61000-3-2: Limits of harmonic current emissions • EN 61000-3-2: Limitation of voltage changes • 47 CFR FCC Part 15 Subpart B EMS (EN 55024) EMS (EN 55024) EMS (EN 61000-4-3: Radiated RFI • EN 61000-4-5: Surge • EN 61000-4-6: Induced RFI • EN 61000-4-5: Power Frequency Magnetic Field • EN 61000-4-11: Power supply dips EN 61000-4-2 4kV contact 8kV air for • Serial Ports • USB • Ethernet • DC Power connector	Dimensions	196×147×44 mm³ (W×L×H)	
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Storage Temp	■ Environmental Data		
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 Serial Ports USB Ethernet DC Power connector >Back to top	EMS (EN 55024)	 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 	
	ESD	Serial PortsUSBEthernet	
■ MTBF (Mean Time Between Failures)			>Back to top
	■ MTBF (Mean Time Between Failures)		

MTBF	21.4 Years @ 25°C 8.9 Years @ 45°C	
Standard	Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7	
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■ Warranty		
Warranty Period	2 years	>Back to top
■ Ordering Information		
6685	NetCom Plus 813 (8x RS232/422/485, expandable)	
<u>6686</u>	NetCom Plus 813 POE (8x RS232/422/485, supply via E expandable)	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	
6679	Activate option <u>viaVPN</u> for secure remote access over Ir	nternet
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 cab Antenna	le & SMA
<u>663</u>	DB9F-to-TB/5Pins for free wiring option	
<u>6061</u>	DB9F-to-RJ45 for changing from DB9 to CAT5 wiring (Optimised for RS422/485 operating modes)	
6062	RJ45-to-DB9M for changing back from CAT5 to DB9 wir (Required to match the DB9 pinout at NetCom Plus)	ing
<u>661</u>	Serial Null-Modem adapter 9PF-9PF, change male to fer	male
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■ Packaging		
Packing list	 NetCom Plus Serial Device Server Terminal block for Power Supply 19-inch Rack Mounting brackets Wall mounting kit 	>Back to top

- * Specifications are subject to change without notice.
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Model NetCom Plus 813 with WLAN >Back



NetCom Plus back side >Back



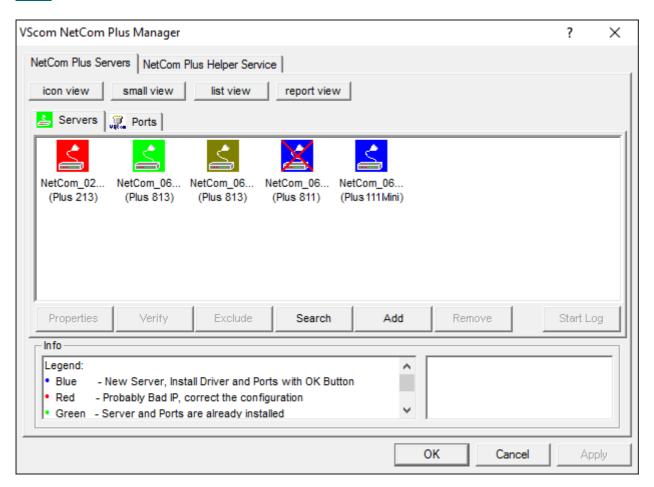
External WLAN (demonstrated on Baltos iR 2110) >Back



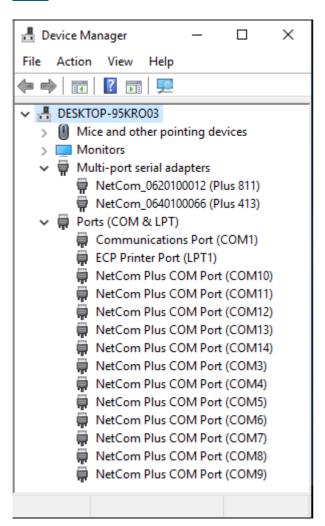
Rackmount Kit >Back



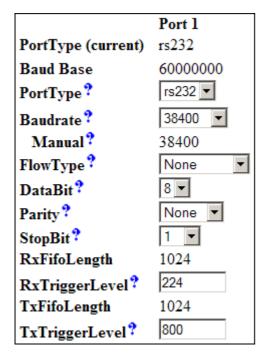
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(2018 Jan 17)