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 POE

(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



Click on the thumbnails for the large picture ...

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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 | |
| | >Back to top | |
| ■ 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. | |
| | >Back to top | |
| ■ 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 (option) | | |
| Standards | 2.4GHz Radio, supports IEEE Std. 802.11b/g/n | |
| WLAN Modes | Access Point (AP) or Client (Station) | |

| ■ Wireless interface (o) | ption) |
|--------------------------|--------|
|--------------------------|--------|

| 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 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 Environmental Data Operating Temp -20°C - 65°C Storage Temp -20°C - 85°C Ambient Humidity 5-95% non condensing Expriremants Declarations CE, FCC EM Sionoga-3: Limits of harmonic current emissions EM Sionoga-4: Sionga | Antenna Connector | RP (Reverse-Polarity) SMA | |
| mPCIe Slot 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 Built-in internal SIM Card slot Different 3G/4G Modem models are supported by NetCom Plus firmware Power Requirements Input Voltage 9 - 54V DC 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 Packaged 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 19-inch Rack Wall mount Environmental Data Operating Temp -20°C - 65°C Storage Temp Ambient Humidity Standards Declarations CE, FCC EM 55022 Class B EMI EMS (EN 55024) EMS (EN 55024) EMS (EN 55024) EMS (EN 1000-4-3: Limits of harmonic current emissions EN 61000-4-3: Radiated RFI EN 61000-4-3: Radiated RFI EN 61000-4-3: Radiated RFI EN 61000-4-4: Belectrical Fast Transient EN 61000-4-5: Surge EN 61000-4-8: Power Stequency 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 | | | >Back to top |
| ### 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 |
| 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 196×147×44 mm³ (W×L×H) Packaged 310×192×60 mm³ Mounting ■ Environmental Data Operating Temp -20°C - 65°C Storage Temp Ambient Humidity 5-95% non condensing ■ Standards Declarations CE, FCC ■ EN 55022 Class B ■ EN 61000-3-2: Limits of harmonic current emissions ■ 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 61000-4-3: Surge ■ EN 61000-4-3: Surge ■ EN 61000-4-6: Induced RFI ■ EN 61000-4-1: Power supply dips ■ EN 61000-4-2 4kV contact 8kV air for ■ Serial Ports ■ USB ■ Ethernet ■ DC Power connector ■ Back to top | • | 9 - 54V DC | |
| Connector Power over Ethernet Power only Packaged O.8mm sheet metal Power with box 1.5kg Dimensions 196x147×44 mm³ (W×L×H) Power on Power over WexxxH) Power over Membal Power over Ethernet Power only Packaged O.8mm sheet metal Power over Membal Power over Ethernet Power on Power on Power over New max. Pack to top Pac | | | |
| 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 61000-4-7: Power requency 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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| Weight w/o 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 • 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 ■ Standards Declarations Declarations CE, FCC EMI • 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) • EN 61000-4-3: Radiated RFI • EN 61000-4-4: Electrical Fast Transient • EN 61000-4-4: Surge • EN 61000-4-6: Induced RFI • EN 61000-4-8: Power Frequency Magnetic Field • EN 61000-4-2 4kV contact 8kV air for • Serial Ports • USB • Ethernet • DC Power connector | ■ Housing and Mounting | | |
| 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) | |
| • 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 61000-4-3: Radiated RFI • EN 61000-4-5: Surge • EN 61000-4-6: Induced RFI • EN 61000-4-6: Induced RFI • EN 61000-4-8: 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 ▶Back to top | Packaged | 310×192×60 mm ³ | |
| ■ Environmental Data Operating Temp | Mounting | = 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | >Back to top |
| Storage Temp | ■ Environmental Data | | |
| Ambient Humidity 5-95% non condensing 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 61000-4-4: 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 EN 61000-4-2 4kV contact 8kV air for • Serial Ports • USB • Ethernet • DC Power connector | Operating Temp | -20°C - 65°C | |
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| ■ 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 EMS (EN 55024) • EN 61000-4-3: Radiated RFI • EN 61000-4-4: Electrical Fast Transient • EN 61000-4-6: Induced RFI • EN 61000-4-6: Induced RFI • EN 61000-4-8: 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 | - | 5-95% non condensing | |
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| • 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 EN 61000-4-2 4kV contact 8kV air for • Serial Ports • USB • Ethernet • DC Power connector >Back to top | EMI | EN 61000-3-2: Limits of harmonic current emissions EN 61000-3-3: Limitation of voltage changes | |
| 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) | | |

| мтвғ | 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 Ethernet, expandable) |
| | >Back to top |
| ■ 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 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>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 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 >Back to top |
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- * Specifications are subject to change without notice.
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Model NetCom Plus 813 with WLAN >Back



NetCom Plus back side >Back



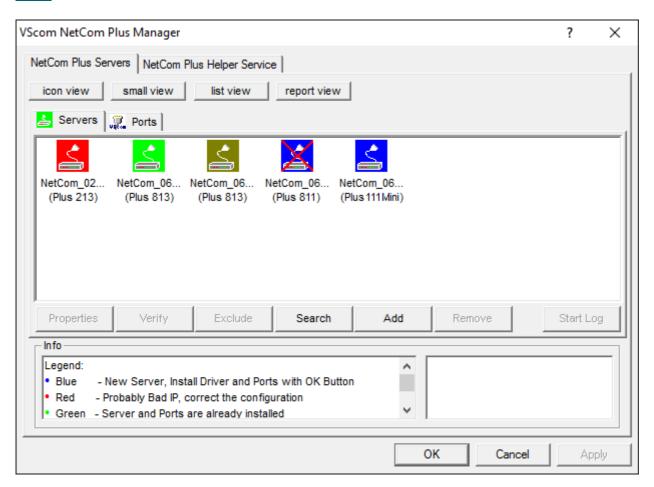
External WLAN (demonstrated on Baltos iR 2110) >Back



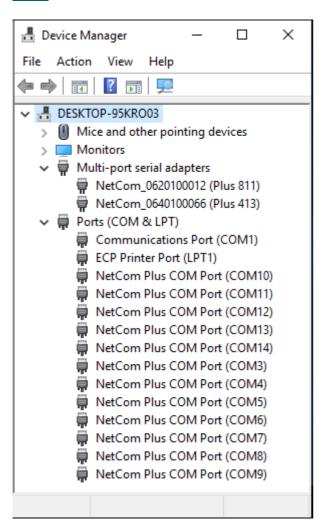
Rackmount Kit >Back



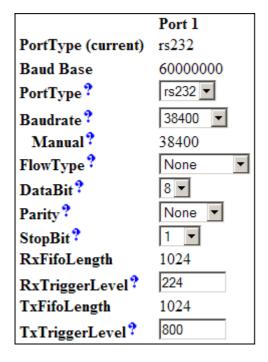
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Remote Access option >Back



(2018 Jan 17)