

Model Information



■ Features

- Controls 8 RS232 devices located virtually anywhere via WLAN, Ethernet or Internet
- **SSL/AES-256** encryption on WLAN, Ethernet and Internet
- LAN 10/100/1000 Ethernet auto-detect
- Driver 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, HTTP, SNMP V1/2c/3, DNS, PPP, openVPN
- Wireless network IEEE 802.11b/g/n

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NetCom Plus 811 with WLAN

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■ More Pictures



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■ Overview

NetCom+ 811 WLAN is an industrial-strength network-based serial device server for connecting eight RS232 devices like CNC, PLC, weighting scale, scanner and others directly to a network running TCP/IP. The driver for Windows operating system installs Virtual Com Ports.

The NetCom+ provides communication secured by SSL and AES-256 bit keys. This is implemented by openVPN tunnel software, which is Open Source and royalty-free for Server and Client software. With openVPN enabled the whole communication which the NetCom runs through the secure tunnel. All data is automatically secured without implementing SSL into customers applications. SSL also protects the configuration and access to the attached serial devices.

In addition to allowing serial devices to get networked, any host (PC Server or Workstation) without network access can also access remote serial devices via adding NetCom devices to an existing serial port. NetCom+ 811 WLAN can be configured over Driver Panels, WEB Browser, serial Port, Telnet, SNMP and serves as a transparent serial channel without platform and distance limitation.

The NetCom+ 811 WLAN is based on a modern RISC processor. It is powered via DC adapter and provides networking by WLAN 802.11b/g/n.

■ Application

- | | |
|--|---|
| ■ Industrial / Factory / Laboratory automation | ■ Secure Remote Monitoring |
| ■ SCADA system | ■ Automatic warehouse control system |
| ■ Building automation system | ■ Wafer fabrication system |
| ■ Self-service banking system | ■ Other remote and distributed serial devices control |

■ Interface

Ethernet interface

Auto-detecting 10BaseT/100BaseTx/1000BaseT (GigaLAN)

Connector 8P8C (RJ45)

Wireless interface

IEEE 802.11b/g/n, operating as Access Point by default
This supports Windows 7 and later, where the Ad-hoc mode is removed from the OS.

Protocols

TCP/IP, UDP, Telnet, PPP, DHCP, ICMP, HTTP, LPD, SNMP V1/2c/3, DNS, openVPN

Serial interface

RS232

No. of port

8x DSUB 9 male connector (as PC)

Available Modes

RS232 full duplex

Signals

TxD,RxD, RTS,CTS, DTR,DSR, DCD, GND

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■ **Serial Performance**

Speed

180 bps up to 1000 kbps

Parity

None, even, odd, mark, space

Data bits

7, 8

Stop bits

1, 2

IRQ

None

I/O address

None

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■ **Operating Modes**

Driver mode

VScOm Driver for Windows up to 8.1, Server up to 2008 R2, both x86 and x64 Editions.
The Driver creates a virtual Com port, using VScOm NetCom protocol.

TCP Raw Server

Raw data transfer over TCP/IP. Accepts multiple incoming connections.

TCP Raw Client

Raw data transfer over TCP/IP. Connects to multiple hosts or devices waiting for incoming connections.

UDP Mode

Raw data transfer by UDP. The NetCom+ is client and server at the same time. Timeout functionality, maximum packet size and a configurable trigger string define the packets of incoming data to send over UDP

Null Modem Tunnel

Connecting two NetCom serial ports used as virtual null modem cable.

IP Modem

The serial port emulates a standard modem. Operates by AT-commands, and dials to IP-Addresses instead of phone numbers. Windows "INF"-Driver provided for installation.

Print Server

The NetCom+ accepts print jobs, and spools them to the attached serial printer. Operates as of RFC1197, similar to the line printer daemon in Unix-systems

PPP net

A Modem attached to a serial port provides Dial-In/-Out. This allows access to the serial ports without a dedicated Ethernet connection.

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■ **Power and Environment**

Connector

3-pin Terminal Block with Protective Earth

Power requirements

12 - 50V DC, 0.4A @ 12V, 5W

Dimension

196×147×44 mm³ (W×L×H)

Operating Temp

0°C - 65°C

Storage Temp	-20°C – 85°C
Case	SECC sheet metal (1mm)
Weight	0.9kg

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■ Special Features

Installation	Configuration utility automatically finds NetCom+ devices in the network
Operating mode	Automatic mode switching between Driver and TCP RAW Server mode.
PPP Access	Dial-In to a modem attached to a serial port using Point to Point Protocol. TCP/IP is transported over the serial line, allowing access to configuration and the serial ports, even without Ethernet. A Dial-Out option is also provided.
Configuration	Configuration over Driver Panels, NetCom Manager, WEB Browser, serial console, Telnet, SNMP
SNMP	special VScom MIB included
DNS	Domain Name Server support
Firewall	Special precautions for Firewall environments
Firmware	Firmware update over WEB Browser, Telnet, ComPort
LEDs	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed

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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

Part Number	6680 NetCom Plus 811 (8x RS232)
Part Number	6681 NetCom Plus 811 POE (8x RS232, supply via Ethernet)
Part Number	6680+6689 NetCom Plus 811 with WLAN
Part Number	6683 NetCom Plus 811 DIO (8x RS232, 16x Digital-I/O, supply via Ethernet)
Part Number	6689 Wireless LAN Embedded Module 802.11b/g/n Purchase time option, not for later retrofitting
Part Number	6030 Power supply Adapter 15V DC, 1A. Connected by Terminal block
Part Number	6031 Power supply Adapter 12V DC, 1A. Connected by Terminal block
Part Number	661 Serial Null-Modem adapter 9PF-9PF, change male to female

Packing list

- NetCom Plus
- Mount angle brackets for 19-inch rack
- Wall mount plates
- Terminal blocks for Digital-I/O

- CD-ROM with Driver and configuration software
- Printed Quick Installation Guide

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Rackmount Kit

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