



[Zoom in Picture](#)

■ **Features**

- Controls 4 RS232/422/485 device located virtually anywhere (via WLAN, Ethernet or Internet)
- Secure encryption on Ethernet and WLAN
- WLAN Interface IEEE 802.11b/g 54Mb/s
- Lan interface 10BaseT/100BaseTx Ethernet
- 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
- Supports ART (Automatic Receive Transmit control)
- RS232/422/485 interface selectable by Switches and Software

NetCom 423 WLAN

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■ **Overview**

NetCom 423 WLAN is an industrial-strength network-based serial device server for connecting four RS232/422/485 device like CNC, PLC, weighting scale, scanner and other devices directly to a network running TCP/IP. This network may be based on 10/100Mbps Ethernet or Wireless LAN as of IEEE 802.11b/g.

NetCom 423 WLAN provides completely secured communication for configuration and to the attached serial device.

In addition to allowing serial devices to get networked, any host (PC Server or Workstation) without network access can also access remote serial device via adding NetCom devices to the existing serial port. NetCom 423 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.

■ **Application**

- Industrial / Factory / Laboratory automation
- Automatic warehouse control system
- Wafer fabrication system
- Retail system
- SCADA system
- Building automation system
- Self-service banking system
- Other remote and distributed serial devices control

■ **Hardware**

Processor	ARM 9 166 MHz
I / O controller	16C950 or compatible
Memory	16MB SDRAM, 2 MB Flash
Connector type	SMA-Reverse for WLAN antenna, RJ45 for Ethernet, DSUB 9 male for serial Port

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■ **Interface**

WLAN interface	Wireless LAN IEEE 802.11b/g, max. 54 Mb/s Encryption WPA2-AES, WPA-PSK/TKIP, WEP-128, WEP-64 Infrastructure mode (uses an Access Point) Ad-hoc mode (direct connection to a PC/Laptop)
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Ethernet interface	Auto-detecting 10BaseT/100BaseTx
Protocols	TCP/IP, UDP, Telnet, PPP, DHCP, ICMP, HTTP, LPD, SNMP V1/2c/3, DNS
Serial interface	RS232/422/485 selected by software or DIP-switch
No. of port	4, Speed up to 3.6 Mbps
Available Modes	RS232 full duplex RS422 full duplex RS485 4 wire, full duplex RS485 2 wire, half duplex, with echo RS485 2 wire, half duplex, without echo
Signals	RS232 TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND RS422 Tx+/-, Rx+/-, GND RS485 2 wire Data+/-, GND RS485 4 wire Tx+/-, Rx+/-, GND
RS485 Data control	Controlled by ART (Automatic Receive Transmit control) or RTS

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■ Performance

Speed	RS232: up to 921.6 kbps RS422/485: up to 3.6Mbps
Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	None
I/ O address	None

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■ Operating Modes

Driver mode	VScom Driver for Windows NT 4.0, 2000, XP and 2003, Vista Driver Mode creates virtual Com port.
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.
TCP Advanced Settings	Special settings for user-defined modes
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 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

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■ Power and Environment

Power requirements	9 - 30V DC, 500mA @ 12V
Power supply Adapter	12V DC, 1A. Connected by Terminal block
Dimension	167× 99×29 mm ³ (W× L× H) 189×102×30 mm ³ with DB9 connector and DIN rail mounting kit

Operating Temp	0°C - 60°C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	0.4kg

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■ Special Features

Installation	Configuration utility automaticly finds NetCom devices in the network
Operating mode	Automatic mode switching between Driver and TCP RAW mode. With TCP Advanced settings it is possible to configure the NetCom for using it in multiple modes, so it decides automaticly which mode should be used.
Configuration	Configuration over Driver Panels, NetCom Manager, WEB Browser, serial console, Telnet, SNMP
SNMP	special VScom MIB included
ART	Automatic Receive Transmit control for RS485
DNS	Domain Name Server support
Serial interface	Serial Interface configurable with DIP switch and by software
Firewall	Special precautions for Firewall environments
Firmware	Firmware update over WEB Browser, Telnet, ComPort
LEDs	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed, WLAN

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■ Security

Password access	Every capabilities of configuration use the same password including SNMP V3
Secure communication	OpenVPN™ tunnel provides security on Ethernet and Wireless networks. The tunnel protects the configuration as well as all serial data. It is also usable across the Internet. Strong encryption by AES up to 256 bit keys.
WEP	Encryption with 64 and 128 bit for compatibility in simple installations
WPA	Modern Wireless protection by WPA2-AES, WPA-PSK/TKIP

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■ Ordering Information

Art.No	687
Product Name	NetCom 423 WLAN
Packing list	NetCom 423 WLAN WLAN antenna Power supply adapter 12V, 1000mA CD-ROM with Driver and configuration software Printed Quick Installation Guide

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■ Optional Accessories

DK 35A	DIN-Rail mountig kit
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■ Full size product image



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