NetCom 123 WLAN

1 port secure and wireless serial device server

KEY FEATURES

- Controls 1 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, PPP
- Supports ART (Automatic Receive Transmit control)
- RS232/422/485 interface selectable by Switches and Software

Overview

NetCom 123 WLAN is an industrial-strength network-based serial device server for connecting one 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 123 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 123 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.

Specifications

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
Interface	
WLAN interface	Wireless LAN IEEE 802.11b/g, max. 54 Mb/s Encryption WPA-PSK/TKIP, WEP-128, WEP-64 Infrastructure mode (uses an Access Point) Ad-hoc mode (direct connection to a PC/Laptop)
Ethernet interface	Auto-detecting 10BaseT/100BaseTx
Protocols	TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, LPD, SNMP V1/2c/3, DNS, PPP
Serial interface	RS232/422/485 selected by software or DIP-switch
No. of port	1, 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

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Note: All specifications are subject to change without notice.

Specifications

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
Performance	
Speed	RS232: up to 921.6 kbps; RS422/485: up to 3.6 Mbps
Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	None
I/O address	None
Operating Modes	
Driver mode	VScom Driver for Windows NT 4.0, 2000, XP, 2003 and 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
Power and Environment	
Power requirements	9 - 30V DC input, 500mA @ 12V
Power supply Adapter	12V DC, 1A. Connected by Terminal block
Dimensions	73 x 115 x 27 mm (W×L×H); 101 x 121 x 27 mm with DB9 connector & DIN rail mounting kit
Operating Temp	0°C - 60°C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	0.2kg
Special Features	
Installation	Configuration utility automatically 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 automatically 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
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 WPA-PSK/TKIP
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS

Ordering Information

Art. No	685
Product Name	NetCom 123 WLAN
Packing List	NetCom 123 WLAN, WLAN antenna; Power supply adapter 12V, 1000mA; CD-ROM with Driver and configuration software, Printed Quick Installation Guide
Optional Accessory	DK 35A - DIN-Rail mounting kit

VScom is offering a full range of serial communication solution for industrial application fields. Currently VScom designs and manufactures technologically advanced and cost effective Ethernet to Serial, RISC-Embedded Systems, CAN Bus to Serial, USB to Serial and PCI to Serial solutions. Envisioning the rapid growth in using Ethernet in different industrial fields. VScom is presently focusing on integration of LAN and Wireless LAN technology in serial connectivity products. Vscom brand products have been in the market since 1995 and are known as high quality, reliable and long life devices. More information on the products is available at www.vscom.de