

## Model Information



### ■ Features

- Can control 1x RS232 devices located virtually anywhere (via Ethernet or Internet)
- **New:** Serial port DB9 male
- 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
- Support TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP V1/2c/3, DNS

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# NetCom 111

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### ■ Overview

NetCom 111 is an industrial-strength network-based serial device server for connecting one RS232 device like CNC, PLC, weighting scale, scanner and other devices directly to the 10/100Mbps Ethernet network running TCP/IP.

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 111 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 serial connector is pin-compatible to Com1 on a PC.

**New:** The serial connector is now DB9 male form factor. The RS232 Null-Modem Adapter is no longer required.

### ■ 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

<b>Processor</b>	ARM 7 TDMI 50MHz
<b>I/ O controller</b>	16C550C or compatible
<b>Memory</b>	8MB SDRAM, 1 MB Flash
<b>Connector type</b>	RJ45 for LAN, DSUB 9 female for serial Port

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## ■ Interface

<b>LAN interface</b>	Auto-detecting 10BaseT/100BaseTx
<b>Protocols</b>	TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP V1/2c/3, DNS
<b>Serial interface</b>	RS232 <b>New:</b> Connector DB9 male, not female
<b>No. of port</b>	1, Speed up to 460Kbps
<b>Available Modes</b>	RS232 full duplex
<b>Signals</b>	TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND

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## ■ Performance

<b>Speed</b>	up to 460Kbps
<b>Parity</b>	None, even, odd, space, mark
<b>Data bits</b>	5, 6, 7, 8
<b>Stop bits</b>	1, 1.5, 2
<b>IRQ</b>	None
<b>I/ O address</b>	None

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## ■ Operating Modes

<b>Driver Mode</b>	Vscom Driver for Windows NT 4.0, 2000 up to 7, Server 2000 up to 2008 R2, both x86 and x64 Editions. The Driver creates a virtual Com port, using Vscom NetCom protocol.
<b>TCP Raw Server</b>	Raw data transfer over TCP/IP. Accepts multiple incoming connections.
<b>TCP Raw Client</b>	Raw data transfer over TCP/IP. Connects to multiple hosts or devices waiting for incoming connections.
<b>TCP Advanced Settings</b>	Special settings for user-defined modes.
<b>UDP Mode</b>	Raw data transfer by UDP. The NetCom is client and server at the same time. With the timeout functionality and a configurable trigger string it can make defined UDP packets of incoming data.
<b>Null Modem Tunnel</b>	Connecting two NetCom used as virtual null modem cable.
<b>IP Modem</b>	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.
<b>Print Server</b>	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

<b>Power requirements</b>	9 - 30V DC, 200mA @ 12V
<b>Power supply Adapter</b>	12V DC 1A
<b>Dimension</b>	73×115×27 mm <sup>3</sup> (W×L×H) 101×121×27 mm <sup>3</sup> with DB9 connector and ears
<b>Operating Temp</b>	0°C - 60°C
<b>Storage Temp</b>	-20°C - 85°C
<b>Case</b>	SECC sheet metal (1mm)

**Weight**

0.2kg

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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 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

no

### DNS

Domain Name Server support

### Firewall

Special precautions for Firewall environments

### Firmware

Firmware update over WEB Browser, Telnet, ComPort

### LEDs

LEDs for Power, Tx, Rx, LAN Link, LAN Speed

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## ■ Security

### Password access

Every capabilities of configuration use the same password including SNMP V3

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## ■ Ordering Information

### Art.No

664

### Product Name

NetCom 111

### Packing list

NetCom 111  
Power supply adapter 12V, 1A  
CD-ROM with Driver and configuration software  
Printed Quick Installation Guide

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## ■ Optional Accessories

### [DK 35A](#)

DIN-Rail mounting kit

### [Serial Adapter](#)

RS232 Null-Modem adapter, change male to female

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**New serial connector DB9 male**

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