

Model Information



■ Features

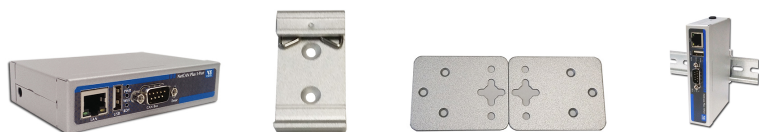
- Connects a PC to CAN bus via Ethernet, WLAN and Internet
- Supports CAN 2.0A and CAN 2.0B
- CAN High Speed up to 1 MBit/s
- USB expansion port for WLAN
- LAN 1000/100/10 Ethernet auto-detect
- Remote Frame support, Listen only mode
- CAN Bridge operation
- Supports Windows 2000 to Server 2012, CE
- Supports Linux (x86, x86-64, ARM)
- Supports C/C++, C#, VB.NET, Delphi and LabVIEW
- CANopen supported by CANFestival
- Driver emulates serial port for easy access
- Library (DLL) for standard access
- ASCII conversion protocol via TCP/IP
- Supports Bosch Busmaster Debugging
- Optional: Wireless network IEEE 802.11b/g/n
- Metal case

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VScom NetCAN Plus 110

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■ More Pictures



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■ Overview

The VScom NetCAN+ 110 is an easy to use gateway from Ethernet to CAN-Bus, based on state of the art RISC components. It provides CAN-BUS communication over Ethernet and WLAN, and allows completely secured communication for both data transfer and configuration to the attached CAN devices.

CAN BUS is widely used in industrial applications as well as in automotive monitoring and control. The VScom NetCAN+ can be used to monitor the data traffic as well as sending control information.

NetCAN+ supports three operating modes: TCP Raw Server, CAN Bridge and Driver Mode. With TCP Raw Server the communication is handled directly via IP address and port number. The CAN Bridge connects two NetCAN+ devices to tunnel CAN data via Ethernet/WLAN. The Driver Mode requires the installation of a virtual com-port driver, which makes the network fully transparent for the application. NetCAN+ provides various software tools to interface the user application:

- The ASCII conversion protocol is useful in developing and testing any CAN-BUS configuration. Users just connect directly via Telnet, and have a simple way to talk to the CAN controller. It can also be used to manually transmit and receive CAN frames.
- Applications programmed by users should use the VScan API library (DLL), which transparently

handles the ASCII conversion for the CAN frames. Programmers have to handle only the CAN frames and status information, they do not have to care more about the ASCII conversion in their applications. This API is supported in C/C++, C#, VB.NET, Delphi and LabVIEW.

- The NetCAN+ also supports CANFestival, an Open Source CANopen Framework. CANopen is a CAN-based higher layer protocol that is used in various application fields, such as medical equipment, offroad vehicles, maritime electronics, railway applications or building automation. CANopen unburdens the developer from dealing with CAN-specific details such as bit-timing and implementation-specific functions. It provides standardized communication objects for real-time data, configuration data as well as network management data.
- CANHacker, a tool for analyzing and transmitting frames on the CAN BUS, is included in the product package. This requires the Driver Mode.
- A set of Mapper DLLs simulates CAN hardware from other manufacturers. Users configure their system for those products or the NetCAN+ 110 adapter as a replacement. So existing software will use the NetCAN+ without replacing the application or modifying it.

■ Application

- Industrial / Factory / Laboratory automation
- SCADA system
- Railway applications
- Maritime electronics
- Wafer fabrication system
- Automotive test equipment
- Medical equipment
- off-road vehicles

■ CAN

Speed	CAN High Speed (20kbit/s up to 1Mbit/s) for transmit/receive
Signals	CAN_H, CAN_L, CAN_GND
Connector	DSub9 male
LED	CAN activity (Data), CAN Error

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■ Network

Ethernet interface	Auto-detecting 1000BaseT/100BaseTx/10BaseT (GigaLAN) Connector 8P8C (RJ45)
Wireless interface	Optional via internal module or external USB stick IEEE 802.11b/g/n operation in Access Point or Client Mode
Connector type	SMA-Reverse for WLAN antenna
Protocols	TCP/IP, Telnet, DHCP, ICMP, HTTP, SNMP v1/2c/3, DNS
USB port	USB 2.0 High Speed, for WLAN
LED	Ethernet Link+Speed, WLAN

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■ Operating Modes

TCP Raw Server	Raw Data transfer over TCP/IP. Accepts multiple incoming connections.
CAN Bridge	CAN networks are connected via TCP/IP (WLAN or Ethernet). A client connects to a Server, CAN frames received on one network are repeated on the other network.
Driver Mode	VScom Driver for <ul style="list-style-type: none">• Windows 2000, XP up to Windows 8.1• Windows Server 2000 up to 2008 R2 Driver Mode creates a virtual Com port.

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■ Special Features

Configuration utility automatically finds NetCAN devices in the

Installation	network
Operating Mode	Automatic Mode switching between Driver and TCP Raw Server Mode.
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 in Driver Mode
Firmware	Firmware update over WEB Browser, Telnet

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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 WLAN and Ethernet. The tunnel protects the configuration as well as all serial data. It is also usable across the Internet. Strong encryption by SSL-AES up to 256 bit keys

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■ Driver and Software

Library	<ul style="list-style-type: none"> • Unified VSCAN API for simple access on all Vscom CAN products. • Supports Windows, CE, Linux (x86, x86-64, ARM) targets. • Supports C/C++, C#, VB.NET, Delphi and LabVIEW.
Compatibility	Mapper DLLs can simulate software interfaces of CAN adapters from other manufacturers.
CANFestival	CANopen examples showing Master/Slave communication
Speed	CAN Speed selectable up to 1 Mbit/s
Transfer	ASCII coding mode
CAN Modes	<p>Standard Mode Normal operation on CAN bus</p> <p>Listen Mode Passive receive of CAN Frames, neither ACK bits nor Error Frames are sent</p> <p>Self Reception (Echo Mode) For testing: Transmitted Frames are also received by the adapter</p>
Monitoring Tools	<ul style="list-style-type: none"> • NetCAN+ and VSCAN API are supported by Bosch BUSMASTER • NetCAN+ is supported by CANHacker via Driver Mode

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■ Power and Environment

Connector	3-pin Terminal Block with Protective Earth
Power requirements	9 - 54V DC, 0.3A @ 12V, 4W
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	-20°C - 65°C
Storage Temp	-20°C – 85°C
Case	SECC sheet metal (1mm)
Weight	0.25kg
Mounting	<ul style="list-style-type: none"> • DIN-Rail (optional) • Wallmount (optional)

■ Ordering Information

424 NetCAN Plus 110

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■ Options

6689 WLAN Kit internal
internal module 802.11b/g/n, pigtail and antenna
Purchase time option, not for later retrofitting

6690 WLAN Kit external
USB stick 802.11b/g/n, antenna

6031 Power supply adapter 12V DC, 1A; with Terminal block

6692 DK-NCP
DIN-Rail mounting kit

6693 WK-NCP
Wallmount kit

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■ Packaging

Packing list

- NetCAN Plus 110
- CD-ROM with Driver and configuration software

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DIN-Rail Mounting Kit

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Wall Mounting Kit

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NETCAN on DIN-Rail

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