

Features

- Connects a PC via Network to CAN Bus
- Supports CAN 2.0A and CAN 2.0B
- CAN High Speed up to 1MBit/s
- Drive emulates serial port for easy access
- Remote Frame support
- Listen only mode
- CANopen by CANFestival
- Library (DLL) for standard access
- ASCII conversion protocol via serial port or TCP
- Supports Windows and Linux Metal case

■ ■ CAN Bus Adapter

NET-CAN

Ethernet to CAN Bus Adapter

NET-CAN 110 - 1 port Ethernet to CAN Bus Adapter

Overview

The NET-CAN 110 provides CAN-BUS communication over Ethernet. It provides 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 NET-CAN can be used to monitor the data traffic as well as sending control information.

NET-CAN supports two operating modes: Driver Mode and TCP Raw Server. The Driver Mode basically requires the installation of a virtual com-port driver, which makes the network fully transparent for the application. The TCP Raw Server Mode doesn't require the virtual com-port driver installation, so the communication will be handled directly via IP address and port number. NET-CAN provides different software tools to interface the user application: The ASCII conversion protocol is useful in developing and testing any CAN-BUS configuration. Users just open the serial port via Terminal Program or 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 VSscan API library (DLL), which transparently handles the ASCII conversion for the CAN frames. Programmers have to handle only the CAN frames status information, they do not have to care more about the ASCII conversion in their applications.

The NET-CAN 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.



Other models

- Serial to CAN : SER-CAN
- USB to CAN : USB-CAN

For more information, visit www.vscom.de or contact us by sales@vscom.de



NET-CAN

NET-CAN 110

1-port Ethernet to CAN Bus Adapter

Why VSCOM ?

With over 15 years of R&D experience, VSCOM is a leading global provider of serial connectivity solutions.

Our products enable customers to easily establish data transfer and data management solutions, relying on state-of-the-art technologies.

We are pleased to provide customers the best fit of advanced technology solutions together with qualified technical support and reliable service for customer's business success.

| Specifications | |
|-------------------------------------|--|
| Processor | ARM 9, 166MHz |
| Memory | 16MB SDRAM, 2MB Flash |
| LED | Power, CAN activity (Data), CAN Error |
| Ethernet interface | Auto-detecting 10BaseT/100BaseTx |
| Protocols | TCP/IP, UDP, Telnet, DHCP, ICMP, HTTP, SNMP v1/2c/3, DNS |
| Connector | RJ45 |
| Speed | CAN High Speed up to 1Mbit/s for transmit/receive |
| Signals | CAN_H, CAN_L, CAN_GND, CAN_V+, GND |
| Controller & Transceiver | SJA1000 Philips; TJA1050 (Philips) |
| Library | Unified API for simple access on all Vscom CAN products, supporting Windows, Linux and Linux for ARM targets |
| NetCOM Driver | Virtual Com Port Driver |
| CANFestival | CANopen examples showing Master/Slave communication |
| 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 |
| Power | 9 -30V DC, 500mA@12V |
| Power supply | 12V DC, 1A connected by terminal Block |
| Dimensions | 73 x 115 x 27 mm (WxLxH) 101 x 121 x 27 mm w/ 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 | 200g |
| Installation | Configuration utility automatically finds NET-CAN devices in the network |
| Operating Mode | Automatic Mode switching between Driver and TCP Raw Server Mode. |
| SNMP | Special Vscom MIB included |
| DNS | Domain Name Server support |
| Firewall | Special precautions for Firewall environments |
| Firmware | Firmware update over WEB Browser, Telnet |
| Password access | Every capabilities of configuration use the same password including SNMP V3 |
| Secure communication | OpenVPN tunnel provides security on Ethernet. 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 |
| EMC | FCC Class A, CE Class A |
| Environment | RoHS |

Available models

1-port: NET-CAN 110

Distributor

Where to buy?

VSCOM's global distributors can help you find the right product for your requirements.

or contact VSCOM directly: sales@vscom.de

www.vscom.de