

CAN-Bus Tools

by...

LAWICEL
Soft- & Hardware

CANUSB-V2

Universal USB-CAN Interface Adaptor

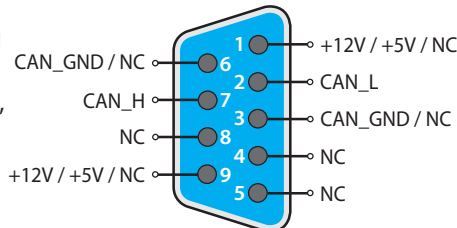
CANUSB-V2 is a very small dongle that plugs into any PC USB Port and gives an instant CAN connectivity. This means it can be treated by software as a standard COM Port (serial RS232 port) which eliminates the need for any extra drivers or by installing a direct driver DLL for faster communications and higher CAN bus loads. Sending and receiving can be done in standard ASCII format.

CANUSB Main Features...

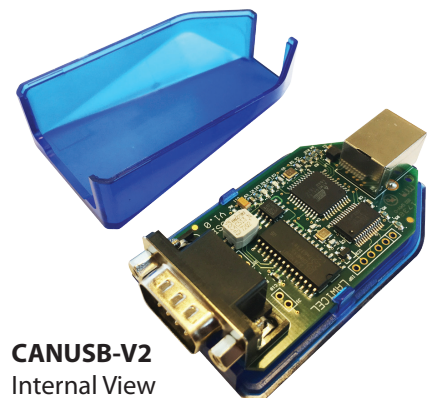
- **CANUSB** module plugs directly into a standard USB port ('A' plug type)
- Provides a standard DB9 male output to CAN systems according to CiA (CAN in Automation) DS102-1 recommendations.
- Up to 1Mbps CAN Bitrate
- Supports CAN2.0A (11 Bit IDs) and CAN2.0B (29 Bit IDs)
- Time Stamp Option (ms) for incoming frames
- Self powered from USB.
- Consumes max 100mA, but normally not more than 60mA (this depends on BUS load and eventual CAN cable errors etc.).
- Use your own RS232 LIB/drivers (in e.g. Visual Basic, Delphi, C++ etc.) together with the free Virtual COM port driver or use the free Direct driver DLL.
- Works on Windows and Linux platforms.
- Easy to migrate from **CAN232** to **CANUSB** with some small software changes.
- Free Windows Threaded **CANUSB** API DLL or use the ActiveX controller, write applications in a snap.

CAN Pin assignment...

- The **CANUSB-V2** pin assignment according to CiA recommendations DS102-1.
- The **CANUSB-V2** is powered from USB port, so no need to connect external power on pin 9.
- Uses only CAN_L (pin2), CAN_H (Pin7) and CAN_GND (pin3).



Product Kit Shot



CANUSB-V2
Internal View

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CANUSB Specifications...

- Can handle up to 1Mbit/s CAN bitrate
- USB 2.0 Full Speed
- Philips SJA1000 CAN Controller running at 16Mhz
- Philips 82C251 CAN Transceiver (Fully Compatible with ISO 11898-24V)
- Compliant to CAN 2.0A (11bit ID's) and CAN 2.0B (29bit ID's)
- Supports RTR frames
- 32 CAN frames deep FIFO buffer for incoming frames in CANUSB firmware
- Time Stamp option in ms for incoming frames
- CANbus connection according to CiA DS102-1 standard
- Power supplied via USB
- Free Interface DLL and ActiveX controller or low level ASCII commands via USB driver
- Free Linux driver available
- Green LED for CAN activity
- Red LED for CAN error activity
- Firmware updatable via USB
- CE Approved
- RoHS & WEEE Compliant

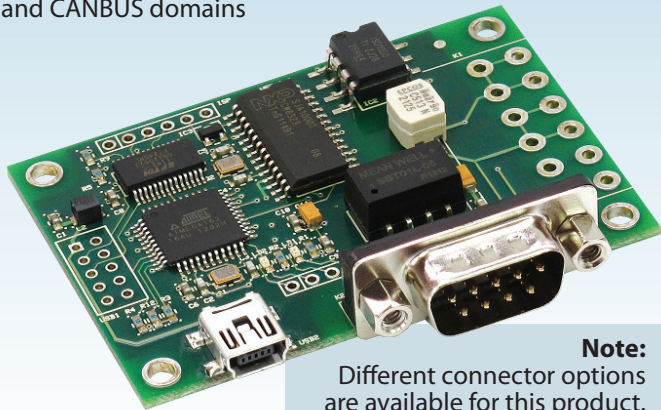
Manufacturer: **Lawicel**
Order Code: **LAW-CANUSB-V2**

Associated Products...

CANUSB/OEM122

ISOLATED CANUSB OEM Module

CANUSB PCBA module featuring galvanically isolated USB and CANBUS domains



Note:
Different connector options are available for this product.

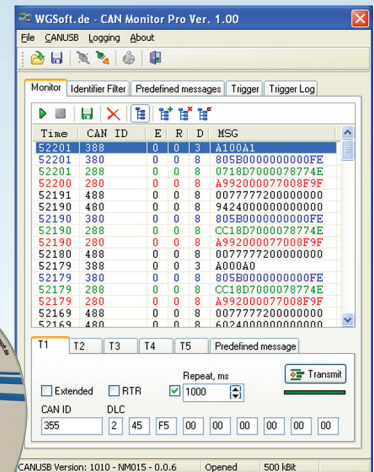
Manufacturer: **Lawicel**
Order Code: **LAW-CANUS-OEM122**

CANMON/PRO

CAN Monitor Pro (Full version) for the CANUSB Adaptor

CANMON/PRO is a software utility which supports sending / receiving of CAN message frames using a simple graphical GUI. The utility only works in conjunction with the **Lawicel CANUSB** adaptor.

This is a chargeable upgrade to the **Lawicel CANUSB** adaptor.



Manufacturer: **WG Soft**
Order Code: **WGS-CANMONPRO**

CAN232

RS232-CAN Convertor Dongle

The **CAN232** is a simple low cost tool which allows any PC or Embedded System which features an **RS232** port to send and receive messages over the CANbus. The **CAN232** simply plugs into the 9-way D COM port and converts messages sent in a simple ASCII protocol to CANbus protocol. This makes the **CAN232** very simple to use as it is completely PC driver independent.

The **CAN232** can also be used together with embedded systems, PLCs etc which require simple CAN connectivity without changing the existing hardware. The **CAN232** handles both the 11bit ID CANbus format as well as the 29bit ID format. It has built in FIFO queues and extended info/error information plus simple power up through a few commands.



Manufacturer: **Lawicel**
Order Code: **LAW-CAN232**

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