

CAN-Bus Tools

by...

LAWICEL
Soft- & Hardware

CAN232

RS232-CAN Converter 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 CAN bus. 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.

The CAN232 is the ideal choice for small embedded Linux, DOS or Windows platforms where cost is important and there is only an RS232 port available. A range of free sample programs with source code are available for VB, Delphi, C & C++.



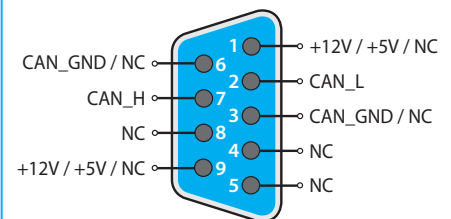
Main Features...

- Connects to standard RS232 serial (COM) port
- Allows any PC or other Embedded System which features an RS232 port to generate / receive CAN protocol commands
- Simple but very powerful ASCII control protocol
- A standard DB9 connector is used to connect to the CAN bus.
- Completely PC driver independent
- Supports both the 11bit ID CANbus format as well as the 29bit ID format
- A range of free sample programs with source code are available for VB, Delphi, C & C++

Enhanced features of the new version...

- New and Improved version
- Faster - double the throughput
- 4 x larger receive FIFO buffer
- Auto Polling of incoming CAN frames
- Message Time stamp in ms
- Optimised CAN core functions
- Firmware is upgradable

CAN Pin assignment...



- The CAN232 pin assignment according to CiA recommendations DS102-1.
- The CAN232 requires an external power supply to be connected to pins 1 + 9.
- Uses only CAN_L (pin2), CAN_H (Pin7) and CAN_GND (pin3).

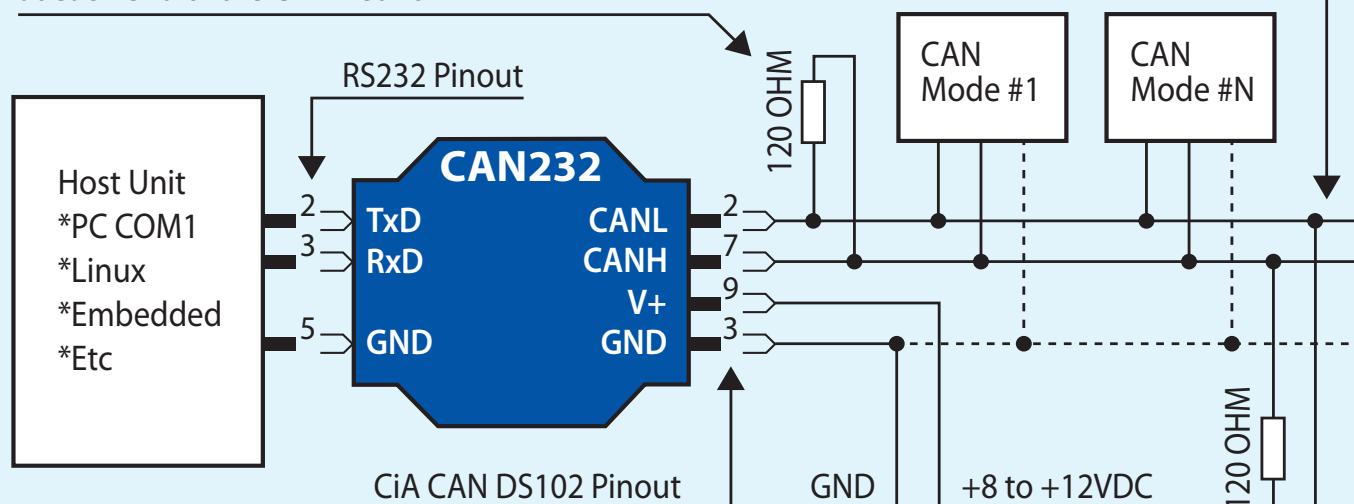
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CAN232 Connection Diagram...

Termination Resistor <120 OHM> Must be fitted at each end of the CAN network

CAN Cable must be a Twisted Pair Cable



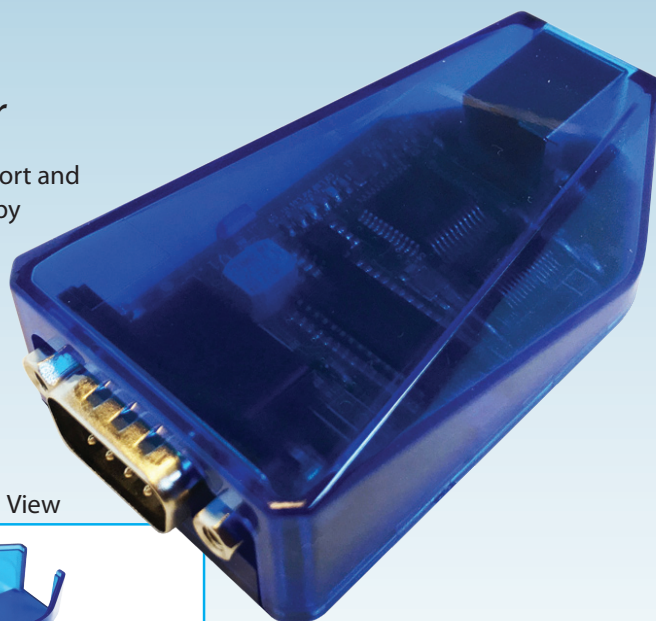
Manufacturer: **Lawicel**
Order Code: **LAW-CAN232**

Associated Products...

CANUSB-V2

Universal USB-CAN Interface Adaptor

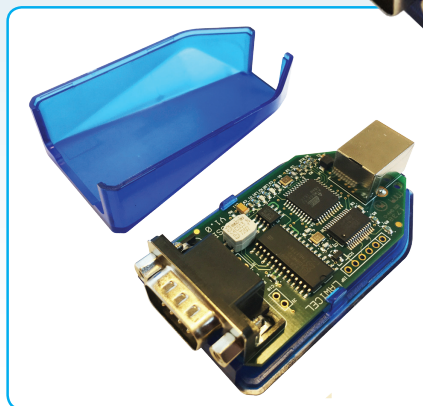
CANUSB-V2 is a very small dongle that plugs into any PC USB Port and gives an instant CAN connectivity. This means it can be treated by software as a standard COM Port (serial RS232 port) which eliminates the need for any extra drivers or by installing a direct driver DLL for faster communications and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



Product Kit Shot



CANUSB-V2 Internal View



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

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