

INDUSTRIAL PRODUCT DATASHEET

CANBed - Arduino CAN-Bus RP2040 development board

CANBed: an Arduino CAN-Bus RP2040 development board for car hacking, vehicle dynamics control, and attitude/orbit control systems.

SKU

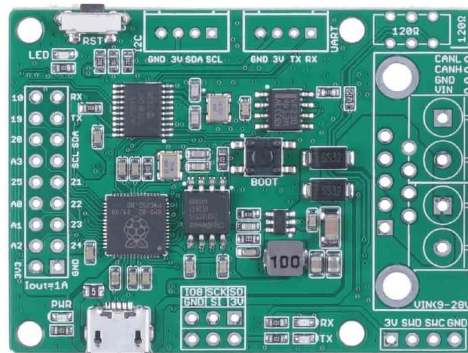
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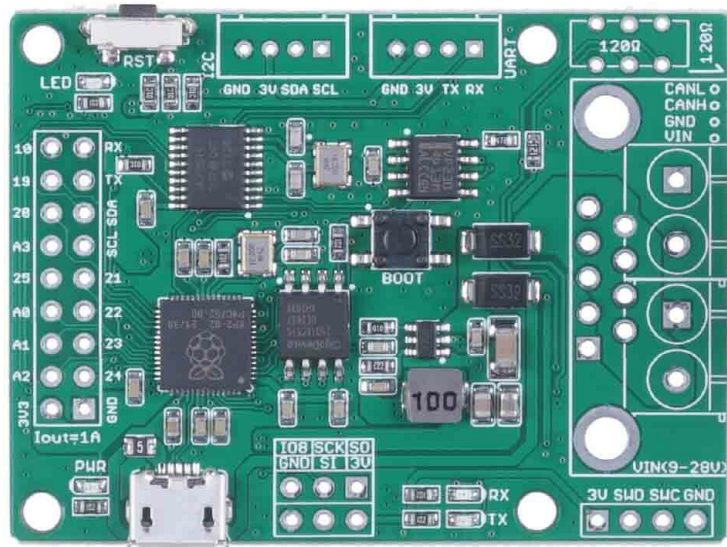
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PRICE

\$15.90(Excl. VAT)



Overview

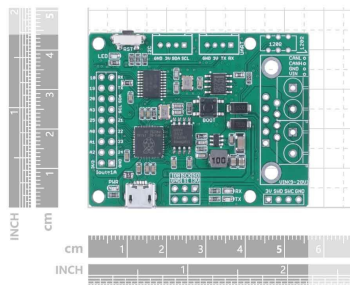
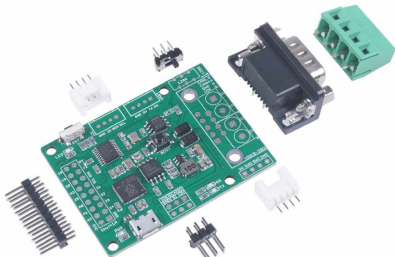
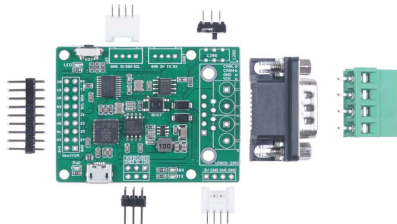
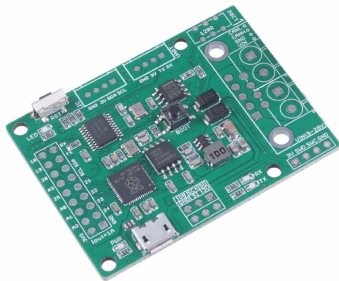
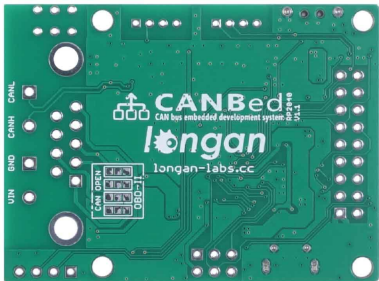


The CANBed is an Arduino CAN-Bus development board featuring the Raspberry Pi RP2040 processor and CAN V2.0B communication up to 1 Mb/s. It provides flexible connectivity via 9-pin sub-D or 4-pin terminal connectors, selectable OBD-II and CAN pinouts, SPI interface, and a wide 9-28V power input range.

Key Features

- Powerful Raspberry Pi RP2040 processor
- Implements CAN V2.0B at up to 1 Mb/s
- Industrial standard 9 pin sub-D connector or 4PIN Terminal.
- OBD-II and CAN standard pinout selectable at the sub-D connector
- 2x4Pin Connector compatible with Grove system from Seeedstudio
- SPI Interface
- Standard (11 bit) and extended (29 bit) data and remote frames
- Power input from 9-28V

Product Gallery



Specification

Parameter	Value
MCU	RP2040
Clock Speed	flexible clock running up to 133 MHz

Parameter	Value
Flash Memory	2MB
RAM	264KB
Operate Voltage	9-28V
Output Current @ 3.3V	1A
Input Interface	sub-D

Applications

- **Hack and Upgrade Your Car**
- **Vehicle dynamics control system**
- **Attitude and orbit control system**

Part List

CANBed 2040 PCBA	x1
Sub-D connector	x1
4PIN Terminal	x1
4PIN HY2.0 Connector	x2
9x2 2.54 Header	x1
3x3 2.54 Header	x1
Switch for 120Ω terminal resistor	x1

Compliance & Logistics



HSCODE	8517629990
USHSCODE	8517620010
UPC	
EUHSCODE	8517180000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/CANBed-RP2040-CAN-Bus-development-board-p-5262.html>

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