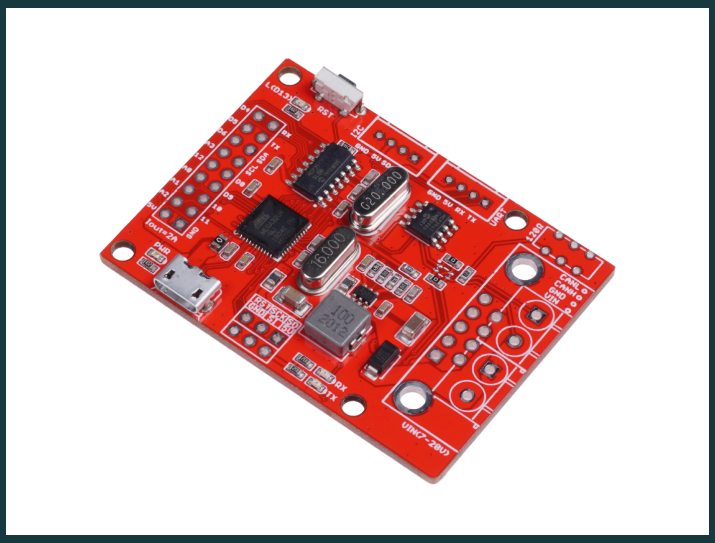
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INDUSTRIAL PRODUCT DATASHEET

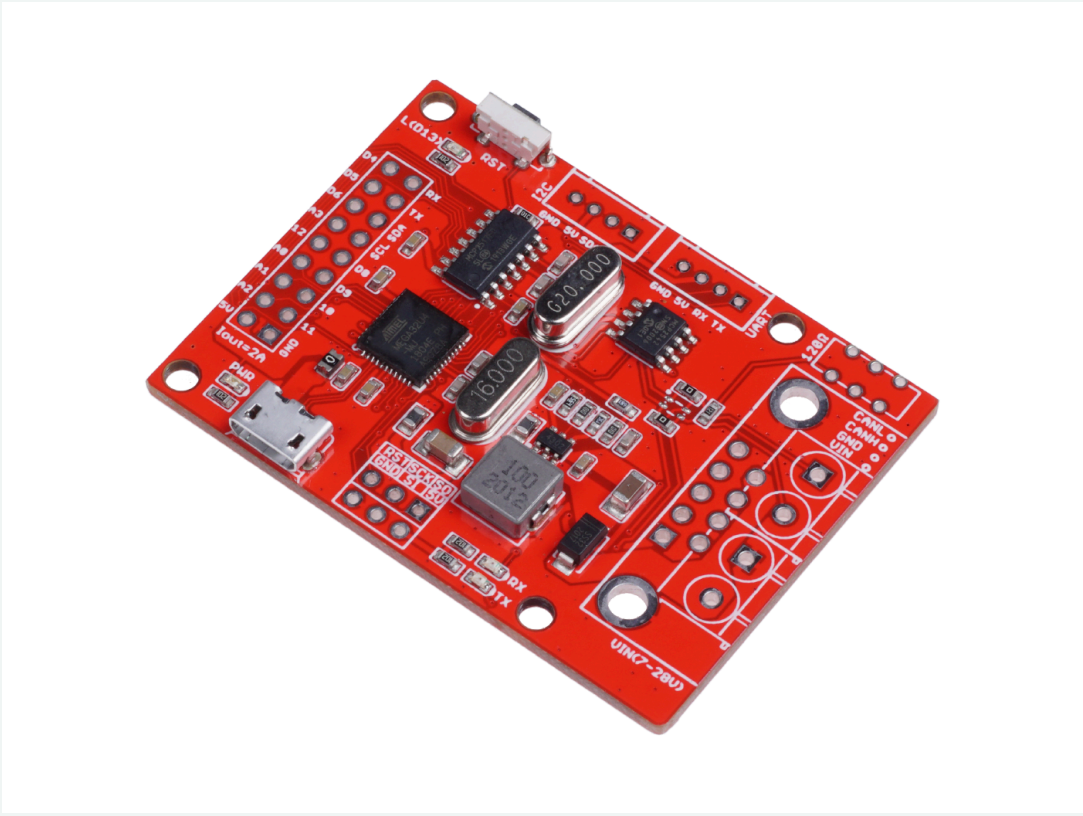
CANBed FD - Arduino CAN-FD Development Kit

This CANBed-FD adopts MCP2517FD CAN Bus controller with SPI interface and MCP2542FD CAN transceiver to achieve the CAN-BUS capability.

SKU	UPDATED	PRICE
102991442	2026-11-11 08:37:52	$17.90(Excl. VAT)



Overview



This CANBed-FD adopts MCP2517FD CAN Bus controller with SPI interface and MCP2542FD CAN transceiver to achieve the CAN-BUS capability. With an OBD-II converter cable added on and the OBD-II library imported, you are ready to build an onboard diagnostic device.

Key Features

01 **Compact size design**

56x41mm overall dimension

02 **Support two CAN protocols**

CAN-FD and CAN 2.0

03 **High-performance CAN Bus chip**

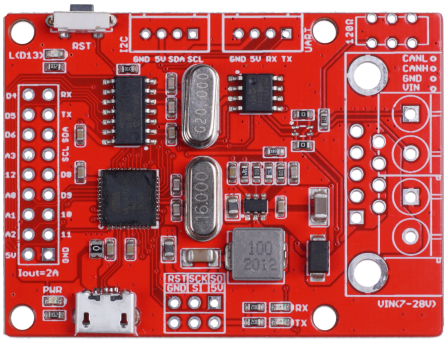
MCP2517FD as CAN controller and MCP2542 (MCP2557) as CAN receiver

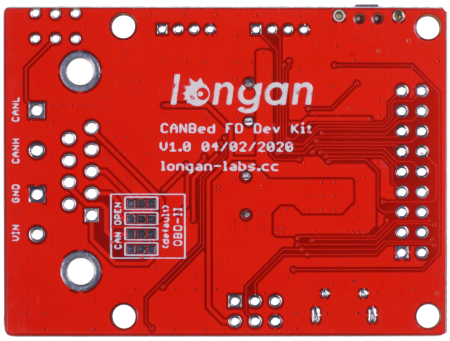
04 **Flexible CAN Interface**

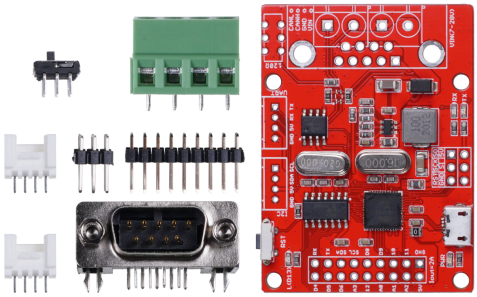
Industrial standard 9-pin sub-D connector or 4-pin terminal, 2 x 4-Pin Grove connectors Compatible with the Grove ecosystem

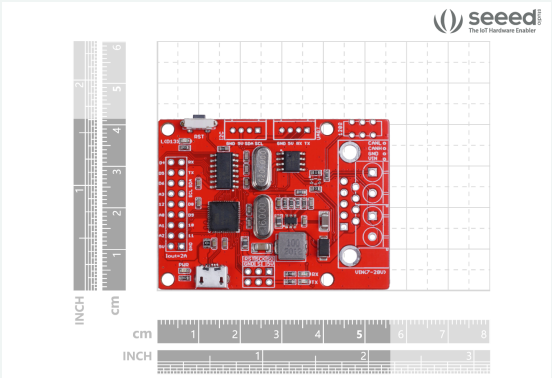
05 **Wide power input range from 7-28V and stable 5V/1A output**

Product Gallery









Applications

- CANBed FD uses MCP2517FD as CAN controller and MCP2542 (*MCP2557*) as CAN receiver, which are high-performance CAN Bus chips, that can work in both CAN 2.0 and CAN FD protocols at the same time. There is a Micro USB connector on the board, through which you can program the board or supply power to the board. There is one I2C, one UART, one SPI interface, 3 analog input interfaces, and 8 digital IO on the board.
- This CANBed-FD Arduino CAN-FD Development Kit adopts MCP2517FD CAN Bus controller with SPI interface and MCP2542FD CAN transceiver to achieve the CAN-BUS capability. With an OBD-II converter cable added on and the OBD-II library imported, you are ready to build an onboard diagnostic device.
- What's more, the is an ATmega32U4 with Arduino Leonardo bootloader on the board, you can use Arduino IDE to program the board easily.

Resource Links

- https://www.seeedstudio.com/CANBed-FD-Arduino-CAN-FD-Development-Kit-p-4724.html
- Arduino Library
- Hardware Schematic

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