

# CANBed - Arduino CAN-BUS Development Kit

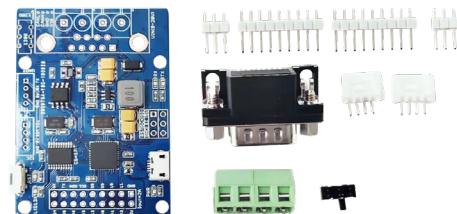
## Product Overview

08/10/2022

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## Description

Seeed Studio CANBed - Arduino CAN-BUS Development Kit carries an ATmega32U4 chip and MCP2515, MCP2551 CAN-BUS controller, and transceiver. This kit can realize the CAN-BUS communication protocol on a single board without other MCU to control. The ATmega32U4 onboard chip has 18 pins, including digital pins, analog pins, UART, and an I<sup>2</sup>C interface. There are also two kinds of CAN Bus interfaces for various demands which are sub-D9 connector and terminal block interface. This development board is compatible with the Arduino Integrated Development Environment (IDE). Typical applications include car hacking and easy building prototype.



## Features

- Enhanced MCU Performance:
  - ATmega32U4 with Arduino Leonardo bootloader on the board
- Compatible with Arduino:
  - Combines CAN-BUS shield and Arduino development board on a single board
- High speed:
  - Implements CAN V2.0B at up to 1Mb/s
- Rich Resources in pins:
  - 18-pins that include digital pins, analog pins, UART, and I<sup>2</sup>C interface
- Easy to Use:
  - Requires no other MCU to control and is compatible with Arduino IDE

## Specifications

- MCU:
  - ATmega32U4(with Arduino Leonardo bootloader)
- 16MHz Clock speed
- 32KB Flash memory
- 2.5KB SRAM
- 1KB EEPROM
- 9V to 28V operating voltage CAN-BUS)
- 5V operating voltage (MicroUSB)
- Sub-D input interface

## Applications

- Car hacking:
  - The circuit board can be connected to the OBD interface through the sub-D connector to read the data of the car
- Easy building prototype:
  - ATmega32U4 chip leads out various additional functions which help especially beginners build various prototypes

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/seeed-studio/seeed-canbed-dev-kit/>