

CANBed - Arduino CAN-BUS Development Kit

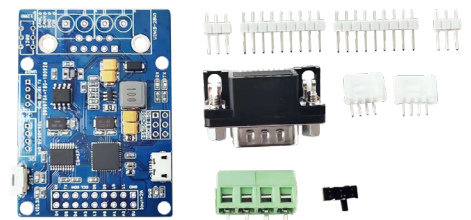
Product Overview

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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 I²C 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 I²C 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

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