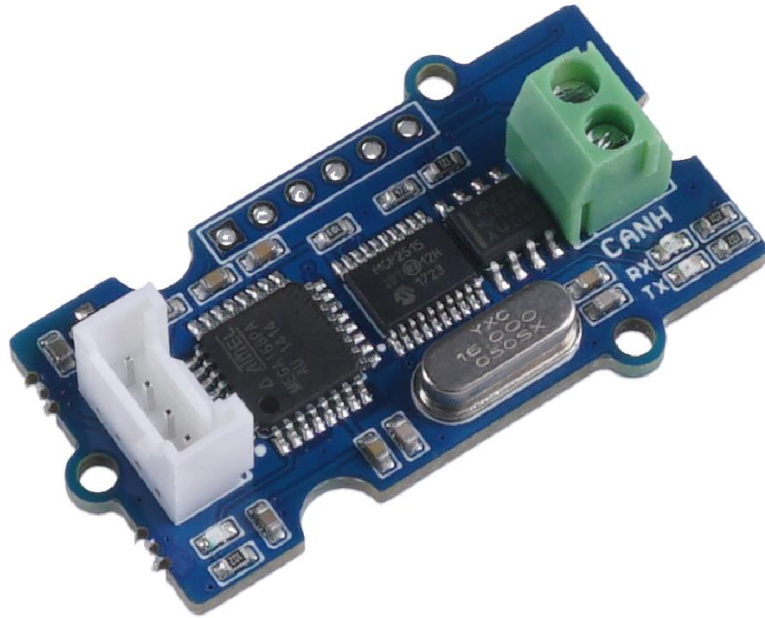# SEEED-113020111

I2C CAN-BUS Module based on MCP2551 and MCP2515

PRODUCT DETAILS

The MCP2551 is a high-speed CAN transceiver, fault-tolerant device that serves as the interface between a CAN protocol controller and the physical bus. The MCP2551 provides differential transmit and receive capability for the CAN protocol controller and is fully compatible with the ISO-11898 standard.

The MCP2515 is a second generation stand-alone CAN controller. It is pin and function compatible with the MCP2510 and also includes upgraded features like faster throughput, databyte filtering, and support for time-triggered protocols.

The I2C CAN Bus Module is based on the high-performance MCP2515 CAN Bus controller and MCP2551 CAN Bus transceiver, providing a CAN Bus communication rate of up to 1Mb/s.

In addition, there is an Atmega168PA microcontroller on the board, you can also program it through a USB to Serial board, modify the firmware or write your application directly.

There's Grove connect as well as Grove cable included in the kit, which allows connecting the module to your Arduino easily.
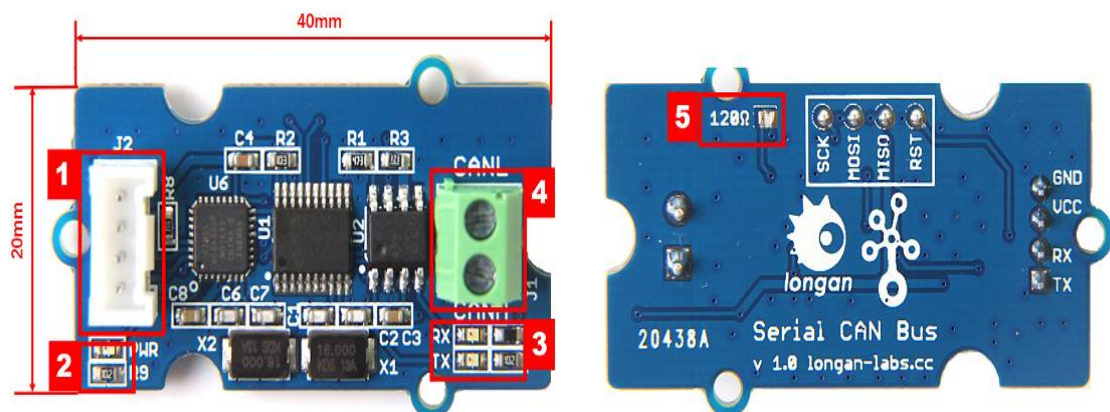
Features

- Cart to CAN-BUS communication
- Up to 1Mb/s CAN Bus baud rate (default 500k)
- Work with Arduino/BeagleBone board/Pi or any MCU that integrated with I2C
- TX and RX led indicator for CAN Bus
- 4pin Grove connector to plug and play
- 3.3 / 5V working voltage
- Easy-to-use Arduino library
- Small size: 20x40 mm

Application

- CAN Bus Monitor
- Car Hacking

Technical Details

1. Grove Connector
2. Power and status led indicator
   - Blink all the time: CAN Bus init fail, Maybe the board was damaged
   - When receive data from I2C, blink one time
3. Send and Recv led indicator
4. 3.5mm terminal to connect to CAN Bus (CAN_H & CAN_L)
5. 120Ω registor.

Part List

- I2C CAN Bus Module x1
- HY2.0 4-Pin Cable x1
- Screw Driver x1

ECCN/HTS

HSCODE	8543909000
USHSCODE	8471490000
UPC	