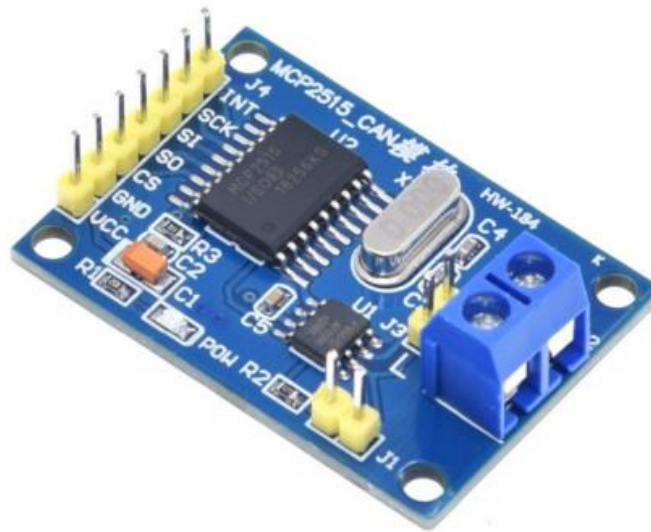# MCP2515 CAN Bus Controller Module

Controlled Area Network of simple CAN is a bus standard that allows a Microcontroller and its peripheral devices to communicate without the need of a host device or a computer. The MCP2515 CAN Bus Controller is a simple Module that supports CAN Protocol version 2.0B and can be used for communication at 1Mbps.
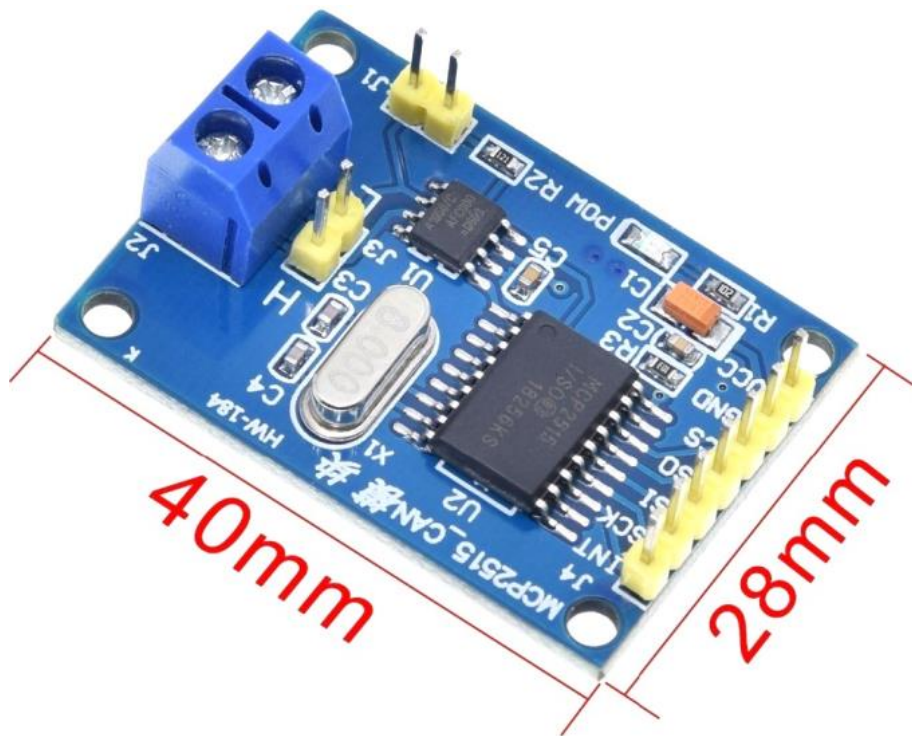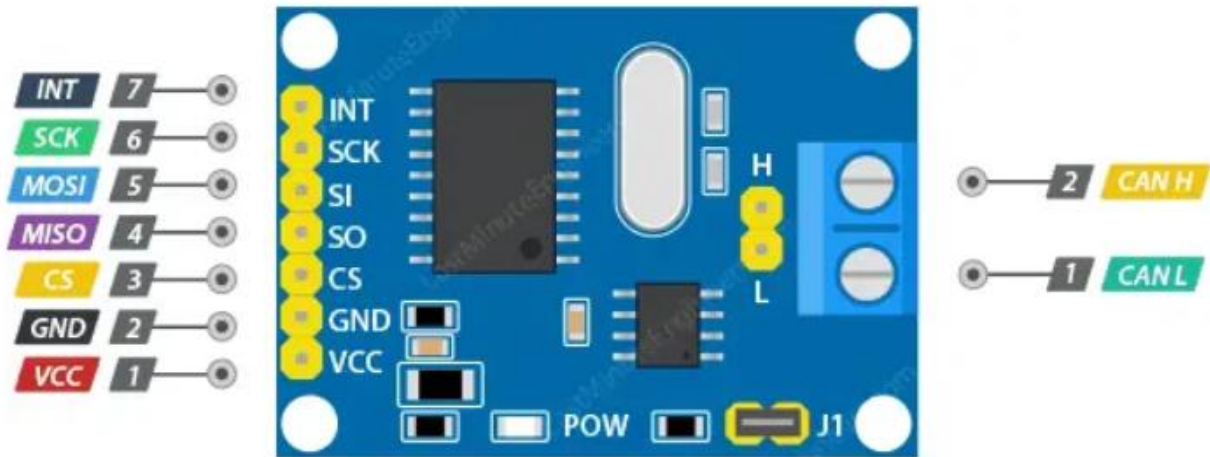

SKU: MDU1159

Brief Data:

- **MCP2515 CAN Bus Controller Module.**
- **Operating Voltage: (4.75~5.25)V, based on TJA1050 requirements.**
- **SPI control for expanding Multi CAN bus interface.**
- **Transmit Buffers: 3 transmit buffers with prioritization and abort features.**
- **Receive Buffers: 2 receive buffers with prioritized message storage.**
- **Message Filters: Six 29-bit filters.**
- **Masks: Two 29-bit masks.**
- **Interrupt Outputs: 1 interrupt with selectable enables.**
- **CAN Specification: Version 2.0B at 1Mb/s.**
- **Interface: High-Speed SPI (10MHz).**
- **Up to 112 nodes can be connected.**
- **Board Dimension: (40×28) mm.**

Mechanical Dimension:

Unit: mm

Pin Assignment:

Pin No	Functions
INT	pin generates an interrupt when a valid message has been received and loaded into one of the receive buffers.
SCK	SPI clock pin.
SI	Serial data In / MOSI pin, for data sent from your Arduino to the module.
SO	Serial data Out / MISO pin, for data sent from the module to your Arduino.
CS	chip select pin. It must be held low to start an SPI transaction.
GND	common ground for power and logic.
L	CAN low signal for the CAN Bus standard.
H	CAN high signal for the CAN Bus standard.
J1	Insert jumper to enable 120ohm termination resistor.

Web Resources:

- https://cyaninfinite.com/getting-started-with-the-wemos-d1-esp8266-wifi-board/
- http://educ8s.tv/arduino-esp8266-tutorial-first-look-at-the-wemos-d1-arduino-compatible-esp8266-wifi-board/

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