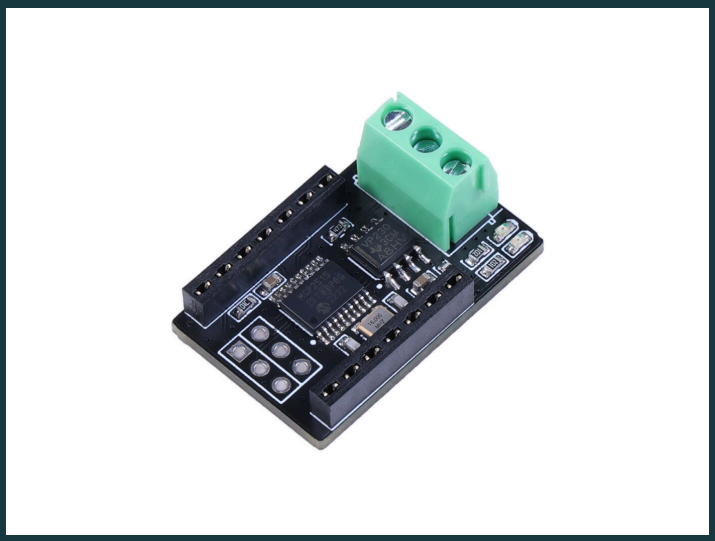
seeed studio

INDUSTRIAL PRODUCT DATASHEET

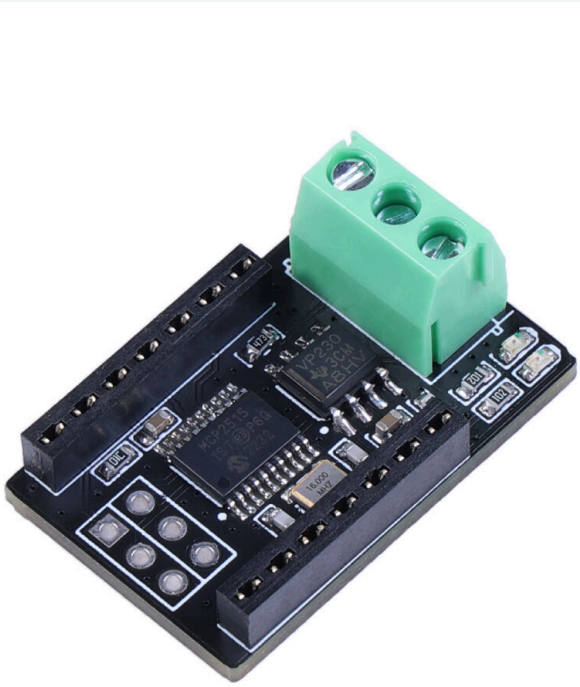
# CAN Bus Breakout Board for Seeed Studio XIAO

Compact CAN Bus expansion board for Seeed Studio XIAO with MCP2515 and SN65HVD230, supporting automotive, industrial, robotics, and IoT projects.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 105100001 | 2026-04-15 07:06:44 | $9.95(Excl. VAT) |



# Overview



The CAN Bus Breakout Board for Seeed Studio XIAO enables seamless CAN Bus communication using the MCP2515 controller and SN65HVD230 transceiver. Its compact design and terminal connection make it ideal for automotive, industrial, robotics, and IoT applications.

# Key Features

**Note:**

This expansion board is currently not directly compatible with the XIAO nRF54L15 series because Arduino is not supported.

However, the hardware interface is fully compatible, and developers can manually adapt the software if needed.

Official software support from Seeed Studio is under development — stay tuned for updates!

- **Seamless XIAO Compatibility:** Designed to work seamlessly with the Seeed Studio Xiao development board.
- **Efficient Communication:** The onboard MCP2515 chip provides reliable control and handling of the CAN Bus communication. The integrated SN65HVD230 chip ensures accurate signal conversion and robust communication over the CAN Bus.
- **Terminal Connection:** The CANH and CANL lines are conveniently accessible through a 3-pin terminal, allowing easy connection to the CAN Bus.
- **Compact Design:** The expansion board has been designed with a compact form factor, making it suitable for various applications.

## What is CAN-BUS?

CAN stands for Controller Area Network, it is used to allow microcontrollers and devices to communicate with each other within a vehicle without a host computer which allows for control and data acquisition.

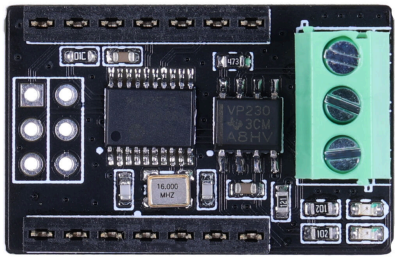
## How does CAN-BUS work?

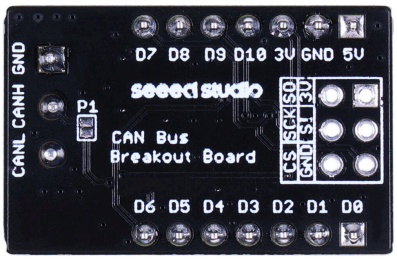
Every node has an ID, where the ones with the higher priority ID can have the priority to “talk” first while the others “listen”. This is to ensure that there are never two nodes talking at the same time. The biggest benefit of CAN-BUS is to be able to just connect components without having to worry about signal routing.

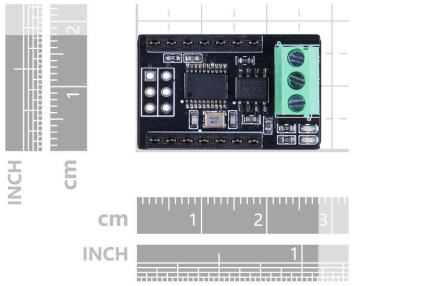
With the Seeed Studio CAN-Bus Breakout Board, you can leverage the power of the Seeed Studio Xiao development board and its extensive ecosystem to create projects that require CAN Bus communication. Whether you're working on automotive applications, industrial control systems, robotics projects, or IoT devices, this expansion board provides a reliable and compact solution for integrating CAN Bus capabilities into your designs.

Learn more about **CAN-BUS** here.

# Product Gallery






## Specification

| Feature | Specification |
|---|---|
| Compatibility | Seeed Studio Xiao development board |
| Communication Interface | CAN Bus (Controller Area Network) |
| CAN Transceiver | SN65HVD230 |
| CAN Controller | MCP2515 |
| Terminal Connection | 2-pin terminal for CANH and CANL lines |

# Hardware Overview


# Applications

- **Automotive Projects**
- **Industrial Control Systems**
- **Robotics**
- **IoT Applications**

## Part List

| | |
|---|---|
| Seeed Studio CAN-Bus Breakout Board | x1 |

## Compliance & Logistics


| | |
|---|---|
| HSCODE | 8543909000 |
| USHSCODE | 8543903500 |
| UPC | |
| EUHSCODE | 8543709099 |
| COO | CHINA |

# Resource Links

- https://www.seeedstudio.com/Seeed-Studio-CAN-Bus-Breakout-Board-for-XIAO-and-QT-Py-p-5702.html
- MCP2515 datasheet
- SN65HVD230 datasheet
- XIAO Reference Design
- 3D Printing "Case" Studies

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