

# Seeeduino XIAO Expansion Board

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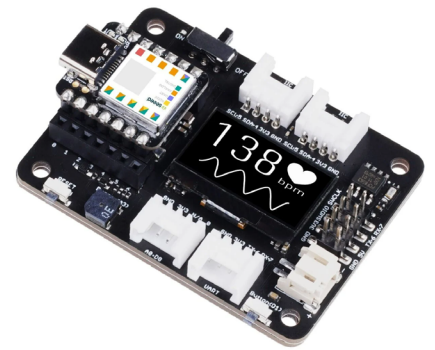
## Product Overview

08-24-2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

Seeed Studio XIAO Expansion Board is a powerful functional expansion board for the Seeed Studio XIAO series. This board is only half the size of the Raspberry Pi 4. The XIAO expansion board features quick prototyping, rich peripherals, and supports circuit python. This board includes rich peripherals such as OLED, RTC, SD card slot, grove connectors, lipo battery charging, buzzer, reset button, and SWD pins.



The Seeeduino XIAO expansion board provides high-cost performance, plug and play, and needs no soldering. Typical applications include SWD debugging, rapid prototyping, data display, and mini-size projects.

## Features

- Rich peripherals:
  - OLED display:
    - Visual data display without connecting to PC
  - RESET button:
    - No more jumper wire and short circuit. Easy reset with just one click
  - SWD debug:
    - SWD pin led out as male pin header and making debugger connection and firmware download much easier
  - High precision RTC:
    - High precision real-time clock with battery backup
  - Expandable memory
  - User button:
    - Besides the RESET button, there is another user-defined button
  - Passive buzzer
  - Grove connectors:
    - All pin led out and plug-and-play grove connectors support common data protocols
  - Lipo battery charging
  - 5V servo connector

## Features

- Quick prototyping:
  - Easy debug and reset with RESET button and SWD pin led out to the male header
- No soldering needed:
  - Convenient plug-and-play grove connectors support multiple data protocols that include I<sup>2</sup>C, UART, and analog/digital
- Circuit python supported
- Mini size:
  - Compact and elegant with only half Raspberry Pi 4 size. Perfect for tiny and wearable projects

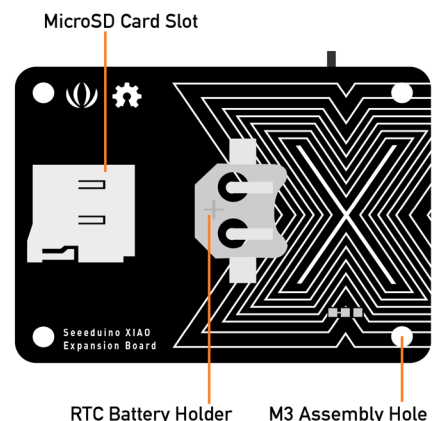
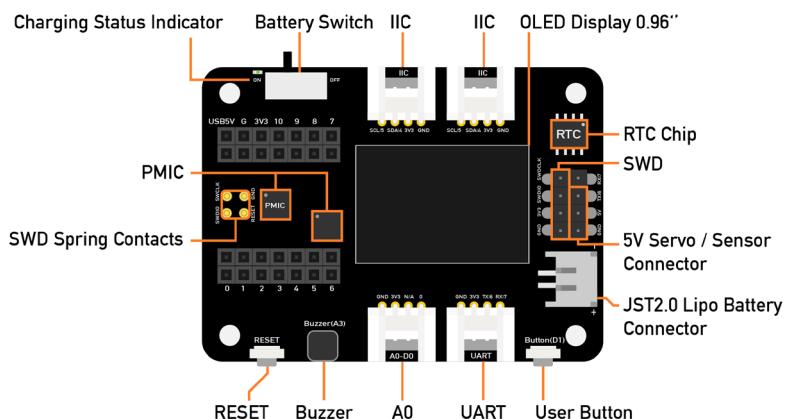
## Specifications

- 5V / 3.7V lithium battery power supply
- PCF8563T/5 RTC chip
- CR1220 RTC battery
- 0.96" OLED display screen
- 460mA maximum charging current

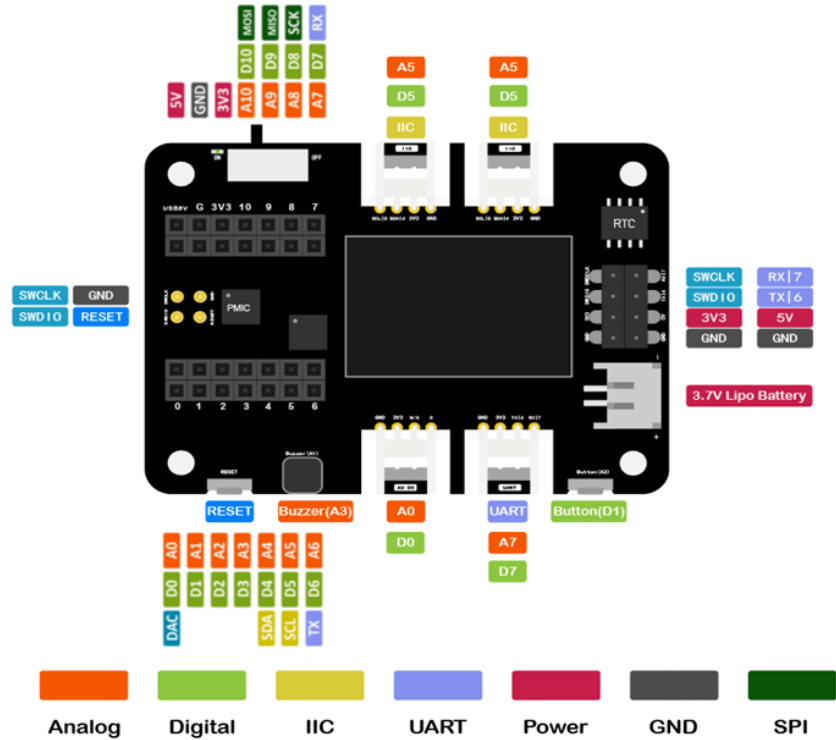
## Applications

- SWD debug
- Rapid prototyping
- Data display
- Mini-size project

## Hardware Overview



## Pinout Diagram



GPIO	0	1	2	3	4	5	6	7	8	9	10	SWCLK	SWDIO	RESET
Interface	A0, D0	D1	SPI	A3	IIC		UART		SPI			SWD		RESET
Components	Grove+1	User Button	mini SD	Buzzer	Grove+2		Grove+1, Headers		mini SD			Headers		Button

## Mouser Part Number

[View Part](#)

To learn more, visit

<https://www.mouser.com/new/seeed-studio/seeed-seeeduino-xiao-expansion-board/>