

seeed studio

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio Expansion Board Base for XIAO with Grove OLED - IIC, Uart, Analog/Digital

A compact expansion board for XIAO with OLED, Grove connectors, and peripherals enabling rapid prototyping, data display, and mini projects.

SKU

103030356

UPDATED

2026-06-29 03:40:57

PRICE

\$16.40(Excl. VAT)



Overview



The Seeed Studio Expansion Board Base for XIAO with Grove OLED integrates a 0.96" OLED, RTC, MicroSD slot, passive buzzer, and user button with plug-and-play Grove connectors supporting IIC, UART, and Analog/Digital for rapid, solderless prototyping. Its compact design includes LiPo battery charging, a RESET button, SWD debug, and a 5V servo header, ideal for tiny, wearable projects and CircuitPython development.

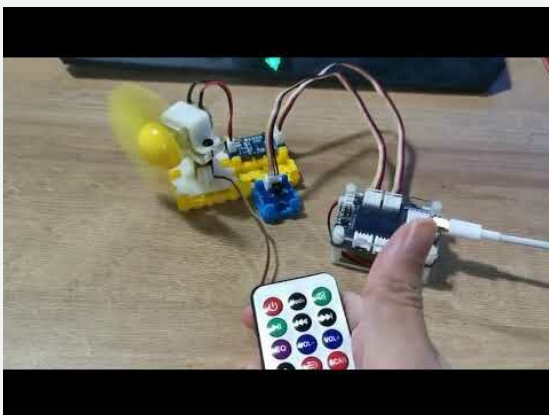
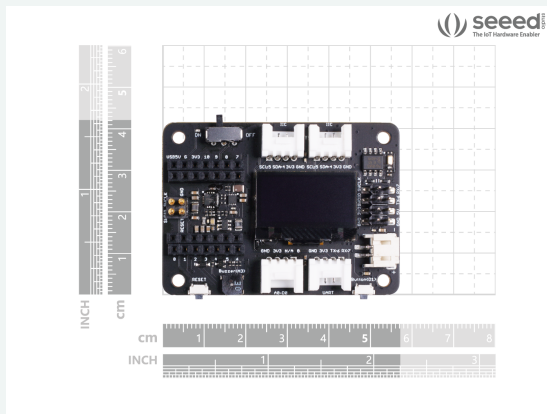
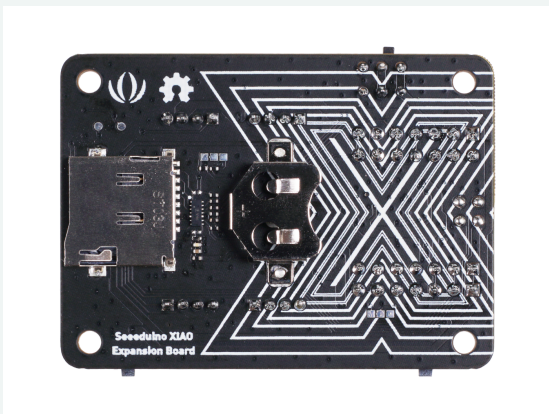
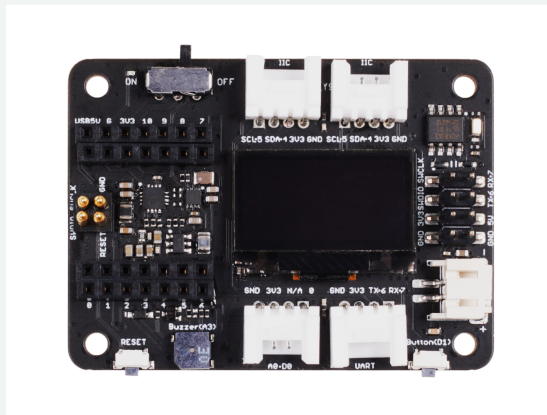
Key Features

- **Quick Prototyping:** Easy debug and Reset with RESET button and SWD pin led out to the male header. 0.96" OLED, enables visual data to display without PC serial monitor.
- **Rich peripherals:** OLED display, RTC, expandable memory space, passive buzzer, user button, on board battery management chip... One board on hand to explore the infinite possibilities of Seeed Studio XIAO series (not included the XIAO nRF54 and MG24 series) .
- **Mini Size:** Compact and elegant with only half Raspberry Pi 4 size, perfect for tiny and wearable projects.
- **No Soldering Needed:** All pins are led out. Convenient plug-and-play Grove connectors support multiple data protocols, including IIC, Uart, and Analog/Digital.
- **Circuit Python Supported:** Well supports circuit python. Mini SD card slot enables memory space expansion, making it possible to allocate more libraries needed in prototyping and project building.

Rich peripherals on board including:

- **OLED display:** Visual data display without connecting to PC, which enables debug in a more efficient way, and builds application such as a sensor hub, data monitor system, .etc
- **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, making debugger connection and firmware download much easier.
- **High precision RTC:** High precision real-time clock with battery backup, enables maintaining accurate time when the main power is turned off.
- **Expandable memory:** With a MicroSD card slot on the back, no worry about the memory limit any more when adding libraries and using circuit python.
- **User button:** Besides the RESET button, also provide another user-defined button.
- **Passive buzzer:** Same passive buzzer on Wio Terminal, with which you could change the PMW frequency to award different beep sound to get a "buzzer music".
- **Grove connectors:** All pin led out, plug-and-play grove connectors support common data protocols (Grove IIC2, Grove UART1, A0/D0 Grove*1)
- **Lipo Battery Charging:** JST2.0mm standard lipo battery connector and battery management system, supports both USB and lipo battery power supply, and easy onboard battery recharge.
- **5V servo connector:** 5V output led out to male header for 5V servo and sensor connection.

Product Gallery

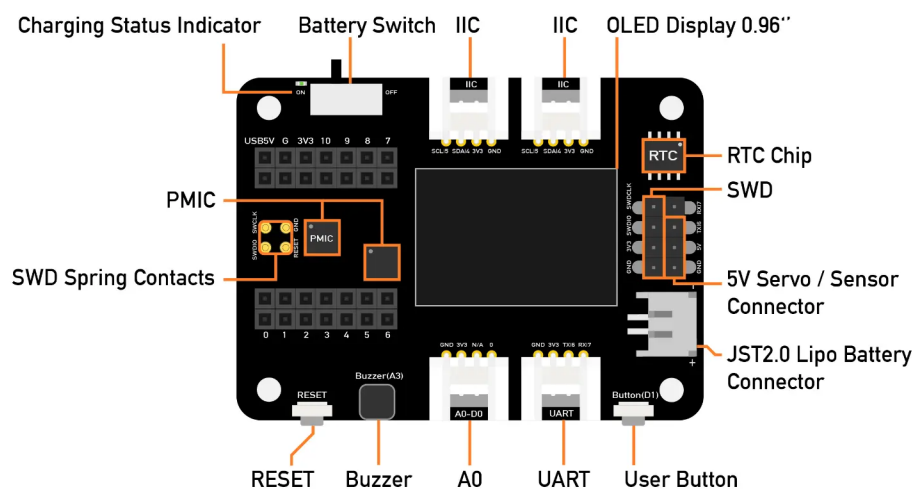
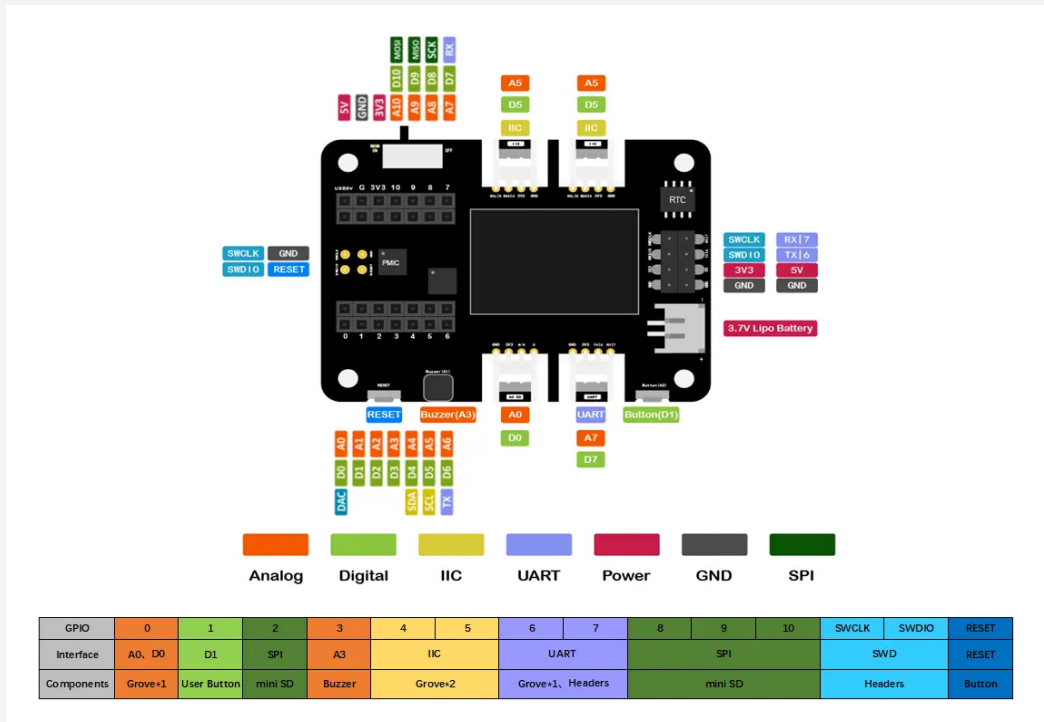


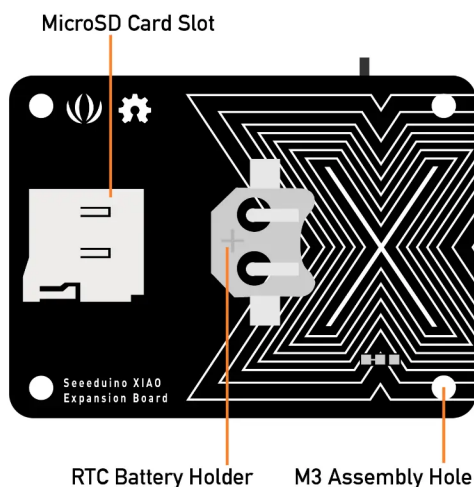
Specification

Item	Detail
Power Supply	5V DC/3.7V Lithium Battery
RTC chip	PCF8563T/5

RTC battery	CR1220
Expandable memory	MicroSD Card
Screen	0.96 OLED display
Other External Equipment	Passive buzzer, user button, 5Vservo connector
charging current	Max: 460mA
Grove Interface	Grove I2C *2, Grove UART *1, A0/D0 Grove *1
IP Rating	IP40

Hardware Overview





Applications

- SMD debug
- Rapid prototyping
- Data display
- Mini Size Project

Part List

Seeeduino XIAO expansion board	X 1
--------------------------------	-----

Compliance & Logistics



HSCODE	8543909000
USHSCODE	8543903500
UPC	
EUHSCODE	8471707000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Seeeduino-XIAO-Expansion-board-p-4746.html>
- [XIAO Reference Design](#)
- [3D Printing "Case" Studies](#)
- [PCN-103030356](#)

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com