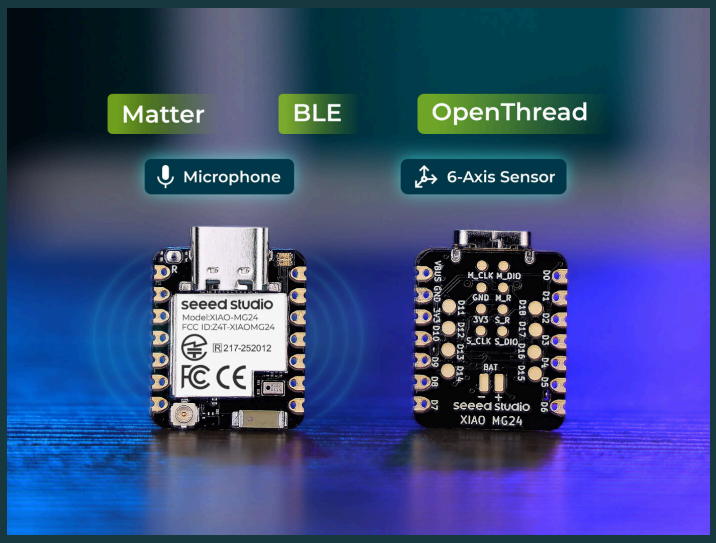
seeed studio

INDUSTRIAL PRODUCT DATASHEET

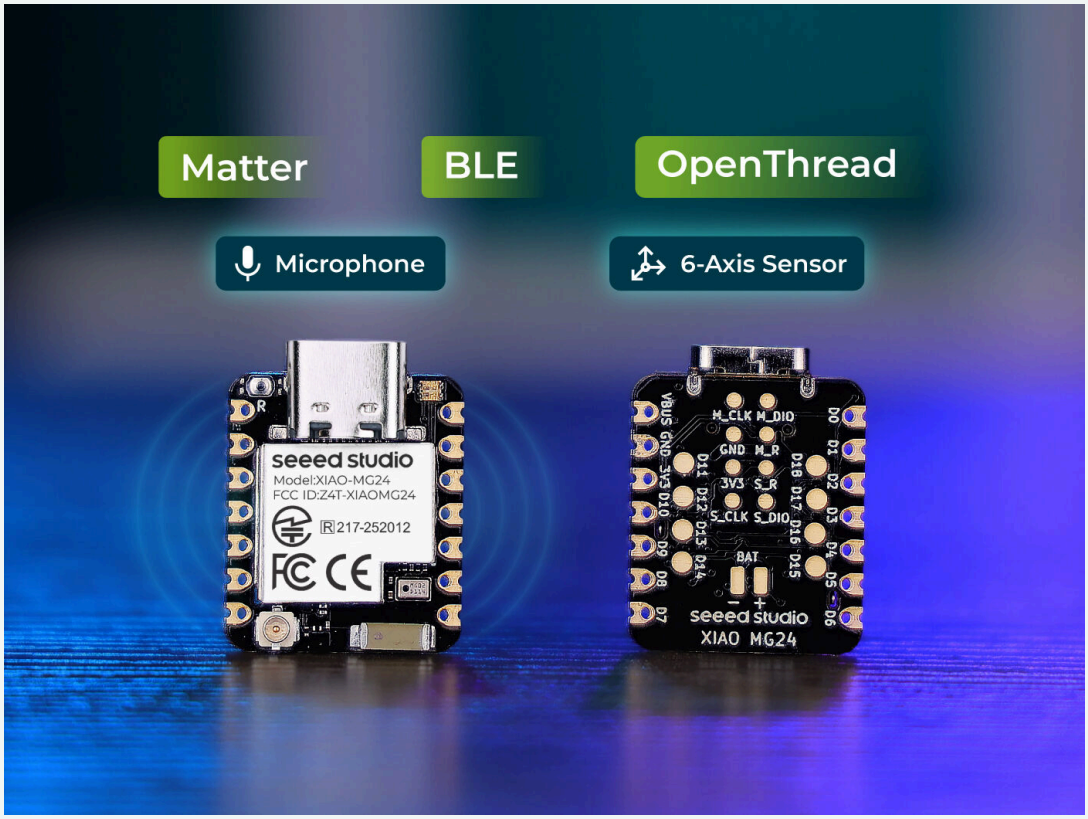
Seeed Studio XIAO MG24 Sense

XIAO MG24 Sense is an ultra-low-power wireless development board based on Silicon Labs' EFR32MG24 SoC, featuring a high-performance 78MHz ARM Cortex®-M33 core.

SKU	UPDATED	PRICE
102010610	2026-11-11 09:09:22	$10.90(Excl. VAT)



Overview



XIAO MG24 Sense is an ultra-low-power wireless development board based on Silicon Labs' EFR32MG24 SoC, featuring a high-performance 78MHz ARM Cortex®-M33 core. It's Matter® native over Thread® and Bluetooth® Low Energy 5.3, all supported by the Arduino® Core. With 4MB Flash onboard, 19 GPIOs, LED, and charging circuit onboard, it boasts extremely low operating current and ultra-low-power modes, making it an ideal choice for IoT applications, especially battery-powered projects utilizing Matter®protocols. Additionally, the onboard analog microphone and six-axis IMU sensors make XIAO MG24 Sense a great fit for TinyML applications such as posture detection.

Key Features

01 **High Performance MCU**

Silicon Labs' EFR32MG24 SoC, 32-bit 78 MHz ARM Cortex®-M33 with DSP instruction

02 **Matter Native**

Compatible with Matter® over Thread® and Bluetooth® Low Energy 5.3, Supported by the Arduino® Core

03 **Outstanding RF Performance**

Equipped with an on-board antenna with BLE range up to 50m in an open location with no signal interference, while reserving an interface for external UFL antenna

04 **Super-Low Power Design**

Power consumption less than 1.95μA in sleep mode, ideal for battery-powered home automation application

05 **Advanced Onboard Sensors**

Features additional analog microphone and 6-axis IMU for TinyML and edge AI applications such as pose perception for more responsive automation.

06 **Security Encrypted On-Chip**

A dedicated hardware secure engine containing its own CPU enables the Secure Vault functions.

07 **Rich On-Board Resources**

Additional 4MB Flash on board, on-board battery charging circuit, 19 GPIOs, LED

08 **Classic XIAO Design**

Remains the classic XIAO design of the thumb-size form factor of 21 x 17.8mm, and single-sided mount, making it perfect for space-limited projects such as wearables

09 **XIAO Accessory Add-ons and Kits Compatibility**

Natively compatible with all the XIAO accessory add-ons and kits of Grove Expansion, CAN-Bus, LED Matrix, Vision AI Sensor, Round Display, GSP Module, 2-Mic Array, ePaper Display, mmWave sensor, LoRa Module and many more.

10 **Production-Ready Design with Fusion PCBA Support**

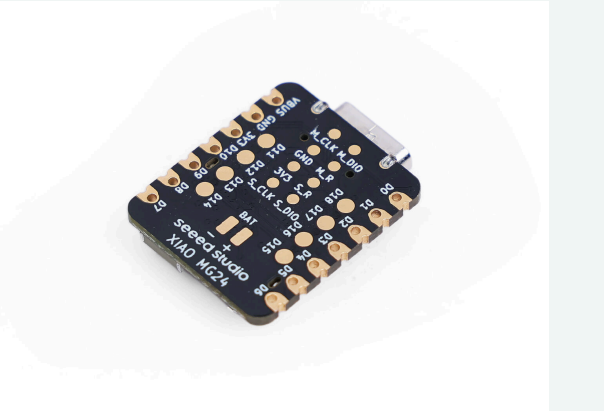
Product Gallery

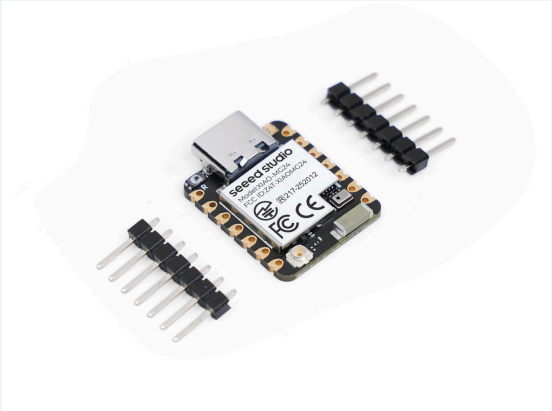


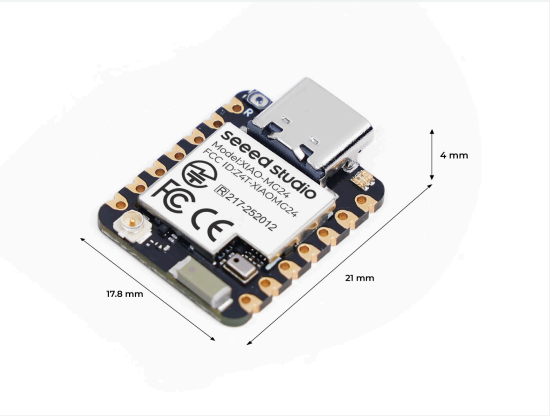




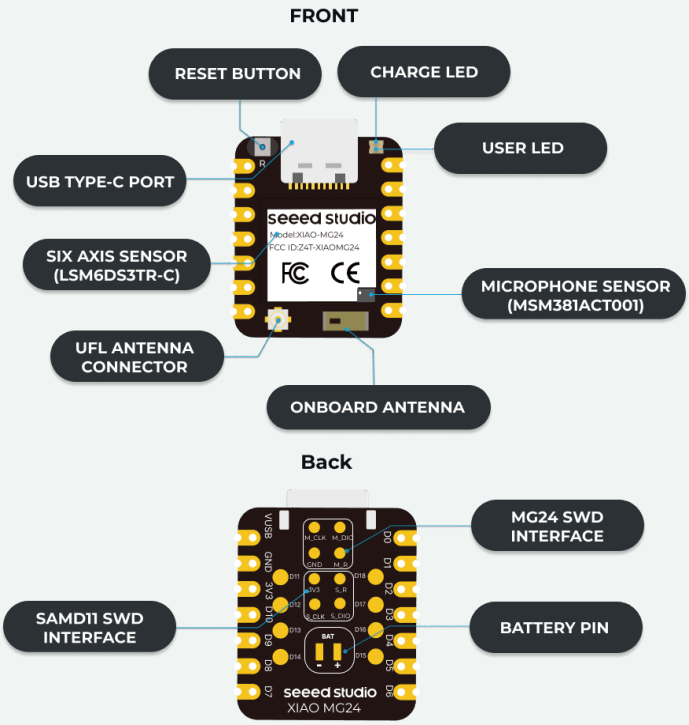


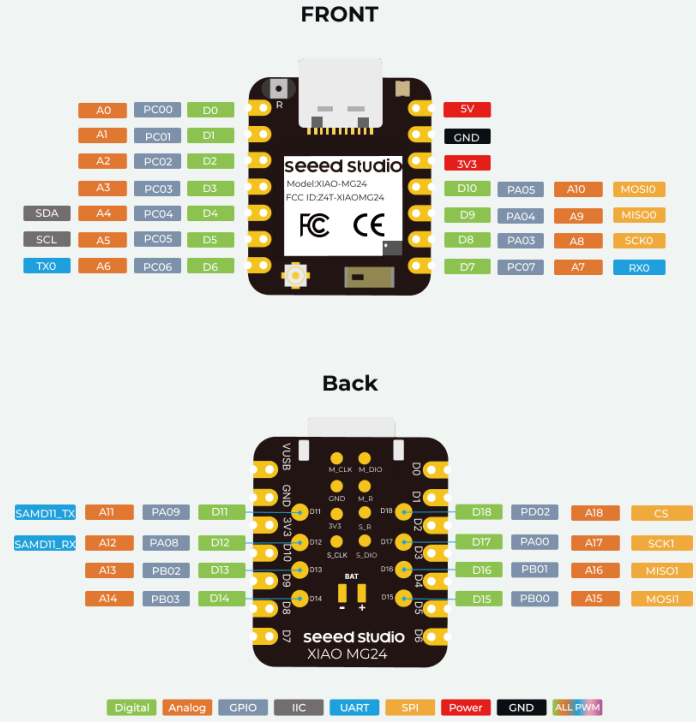





4 mm
21 mm
17.8 mm

Hardware Overview





Applications

- **Smart Home Devices: Using Matter® for devices like smart locks, sensors, and lighting.**
- **Remote Controls: Low-power remotes for home automation systems**
- **TinyML Applications: On-device machine learning for gesture recognition and voice commands.**
- **Environmental Monitoring: Battery-powered sensors for temperature, humidity, and air quality.**

Resource Links

- https://www.seeedstudio.com/Seeed-XIAO-MG24-Sense-p-6248.html
- PCN-XIAO Series Packaging Upgrade.pdf
- Wiki-XIAO MG24 Series Resources
- Seeed Studio XIAO Use Case

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