seeed studio

INDUSTRIAL PRODUCT DATASHEET

Seeed Studio XIAO MG24 (Pre-Soldered)

This is the pre-soldered version of XIAO MG24, which is based on Silicon Labs' EFR32MG24 SoC, featuring a high-performance 78MHz ARM Cortex®-M33 core.

SKU	UPDATED	PRICE
102010690	2026-11-11 09:12:03	$8.90(Excl. VAT)



Overview



This is the pre-soldered version of XIAO MG24, which is based on Silicon Labs' EFR32MG24 SoC, featuring a high-performance 78MHz ARM Cortex®-M33 core. This development board is 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, 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.

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 projects

05 **Rich On-Board Resources**

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

06 **Security Encrypted On-Chip**

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

07 **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

08 **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.

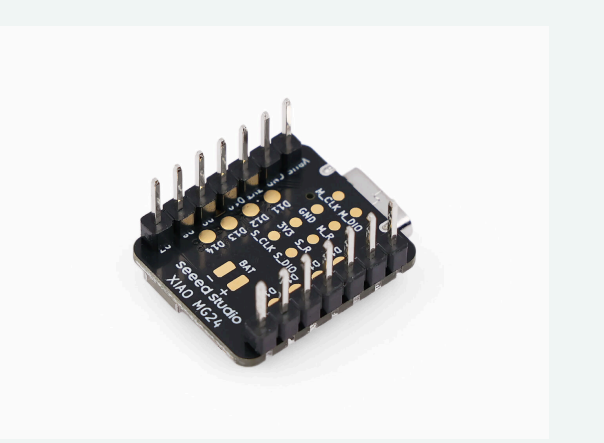
Product Gallery

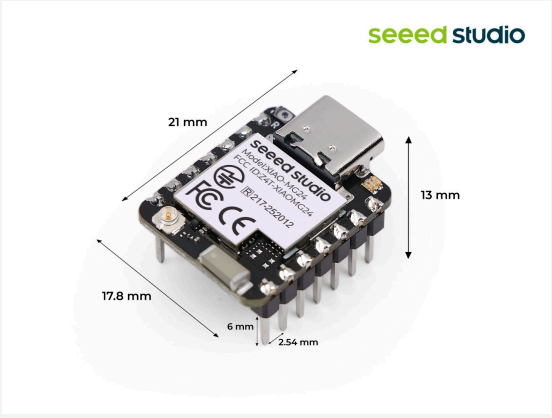




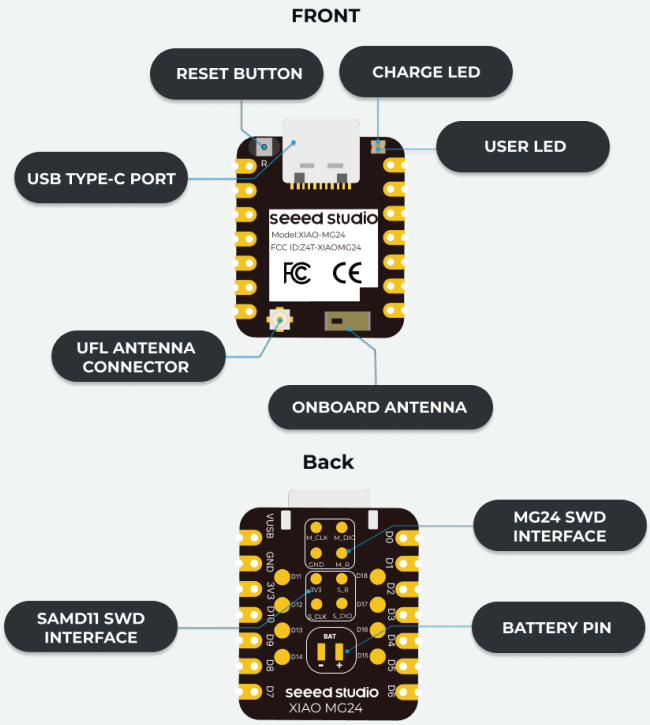


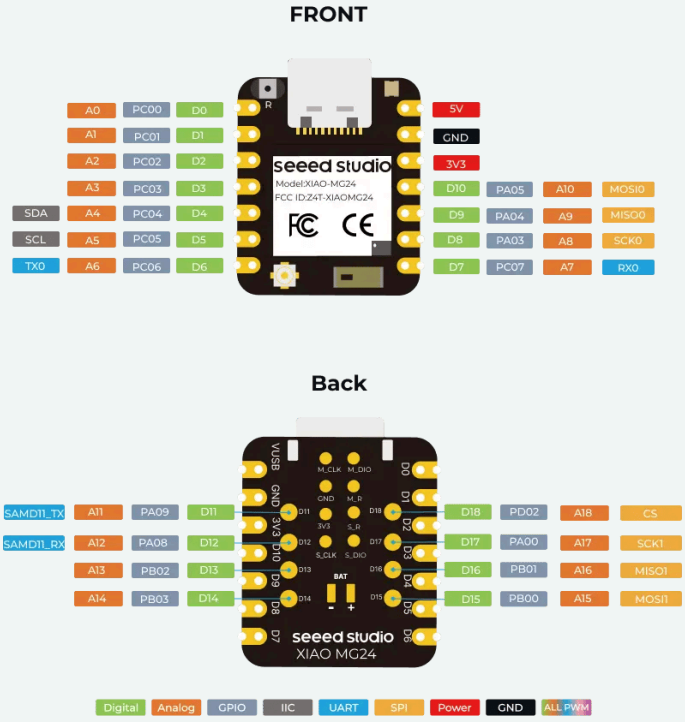






Hardware Overview





Applications

- It's perfect for battery-powered Matter® projects in:
- Smart Home Automation: Devices like smart lighting, thermostats, and security systems using Matter.
- Remote Sensing and Control: Wireless control of devices in automation systems.
- Environmental Monitoring: Battery-powered sensors for indoor settings.

Resource Links

- https://www.seeedstudio.com/Seeed-Studio-XIAO-MG24-Pre-Soldered-p-6381.html
- PCN-XIAO Series Packaging Upgrade.pdf
- Wiki-XIAO MG24 Series Resources
- Seeed Studio XIAO Use Case

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