

Seeed Studio XIAO MG24

Seeed Studio XIAO MG24 Microcontroller User Manual

Model: XIAO MG24

1. INTRODUCTION

The Seeed Studio XIAO MG24 is a compact, high-performance microcontroller board designed for Internet of Things (IoT) and embedded applications. It integrates the Silicon Labs EFR32MG24 SoC, offering robust processing capabilities, Matter over Thread, and Bluetooth Low Energy (BLE) 5.3 connectivity. Its ultra-low-power design makes it suitable for battery-powered projects, while its Arduino compatibility ensures ease of development.

This manual provides essential information for setting up, operating, and maintaining your XIAO MG24, along with detailed specifications and troubleshooting tips.

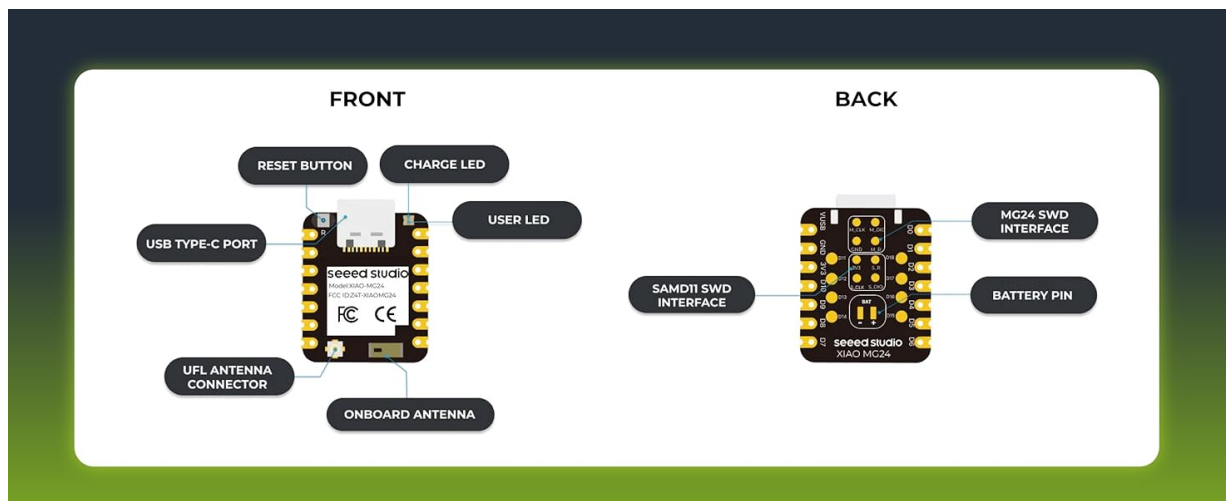


Image 1.1: Overview of Seeed Studio XIAO MG24 key features, including Matter-Native support, low power consumption, and security features.

2. KEY FEATURES

- **High Performance MCU:** Silicon Labs EFR32MG24 SoC, 32-bit 78 MHz ARM Cortex-M33 with DSP instruction.
- **Matter Native:** Compatible with Matter over Thread and Bluetooth Low Energy 5.3, supported by the Arduino Core.

- **Outstanding RF Performance:** Equipped with an on-board antenna with BLE range up to 50m in open locations, with an interface for an external UFL antenna.
- **Super-Low Power Design:** Power consumption less than 1.95µA in sleep mode, ideal for battery-powered applications.
- **Rich On-Board Resources:** Includes 4MB Flash, on-board battery charging circuit, 19 GPIOs, and an LED.
- **Security Encrypted On-Chip:** A dedicated hardware secure engine with its own CPU enables Secure Vault functions.
- **Classic XIAO Design:** Thumb-size form factor (21 x 17.8mm) and single-sided mount, suitable for space-limited projects.
- **XIAO Accessory Compatibility:** Natively compatible with various XIAO accessory add-ons and kits.

3. SETUP GUIDE

3.1 Physical Connection

To begin using your Seeed Studio XIAO MG24, connect it to your computer using a USB Type-C cable. The board will draw power and establish a data connection through this port.



Image 3.1: Front view of the Seeed Studio XIAO MG24, highlighting the USB Type-C port for power and data.

3.2 Software Setup (Arduino IDE)

The XIAO MG24 is compatible with the Arduino IDE. Follow these steps for initial software setup:

1. **Install Arduino IDE:** Download and install the latest version of the Arduino IDE from the official Arduino website.
2. **Add Board Manager URL:** In the Arduino IDE, go to *File > Preferences*. In the 'Additional Boards Manager URLs' field, add the URL for Seeed Studio boards. Refer to the official Seeed Studio documentation for the most current URL.
3. **Install Board Package:** Go to *Tools > Board > Boards Manager*. Search for 'Seeed Studio XIAO' and install the corresponding board package.
4. **Select Board:** After installation, go to *Tools > Board > Seeed Studio XIAO* and select 'XIAO MG24'.
5. **Select Port:** Connect your XIAO MG24 to your computer. Go to *Tools > Port* and select the serial port corresponding to your connected board.

3.3 Pinout and Component Overview

Understanding the pinout and on-board components is crucial for proper integration and programming.



Image 3.2: Labeled diagram of the XIAO MG24's front and back components, including USB Type-C port, reset button, LEDs, UFL antenna connector, and SWD interfaces.

Product Specifications

Parameter	XIAO MG24	XIAO MG24 Sense
Processor	Silicon Labs EFR32MG24 ARM Cortex-M33 @ 78MHz	
Short Description	Super-low power for battery-powered Matter projects	Super-low power board with microphone & 6-axis IMU
Flash / RAM	1536KB + 4MB Onboard / 256kB	
LEDs	1 User LED, 1 Power LED	
Sensors	-	Onboard Analog Microphone Onboard 6-axis IMU
Interfaces	22 Pins: 11x Analog, 11x Digital, 1x I ² C, 2x UART, 2x SPI, All PWM	22 Pins: 11x Analog, 19x Digital , 1x I ² C, 2x UART, 2x SPI, All PWM
Buttons	1 Reset Button	
Security Features	Hardware Encryption Acceleration, True Random Number Generator, ARM® TrustZone®, Secure Boot, Secure Debug Unlock, etc.	
Power Consumption	Low Power: 1.95µA Normal: 6.71mA Sleep: 1.91mA	
Software Compatibility	Arduino IDE	
Antenna Support	Max 2.4GHz Ceramic Antenna: 4.97dBi	
Operating Temperature	-20°C~70°C	
Dimensions	21x17.8 mm	

Image 3.3: Detailed pinout diagram for the Seeed Studio XIAO MG24, showing digital, analog, I2C, UART, SPI, and power pins.

4. OPERATING INSTRUCTIONS

4.1 Basic Programming

Once the Arduino IDE is set up, you can write and upload sketches to your XIAO MG24. Start with simple examples like blinking an LED to verify your setup. The board's 19 GPIOs offer flexibility for connecting various sensors and actuators.

4.2 Matter, Thread, and BLE 5.3 Connectivity

The XIAO MG24 is designed for modern IoT applications, supporting Matter over Thread and BLE 5.3. Utilize the provided libraries and examples within the Arduino environment to develop connected projects. Refer to Seeed Studio's online documentation and community forums for specific guides on implementing these protocols.

4.3 Ultra-Low Power Operation

For battery-powered applications, leverage the XIAO MG24's ultra-low power capabilities. Implement sleep modes and optimize your code to minimize power consumption. The on-board battery charging circuit simplifies integration with rechargeable batteries.

4.4 Security Features

The EFR32MG24 SoC includes a hardware secure engine for enhanced security. When developing applications requiring data protection or secure boot, consult the Silicon Labs documentation for details on utilizing the Secure Vault functions.



Image 4.1: Examples of Seed Studio XIAO applications, including Smart Home/IoT, TinyML, Robotics, and STEAM Education.

5. MAINTENANCE

The Seed Studio XIAO MG24 is a robust development board, but proper handling and care will ensure its longevity.

- **Handling:** Always handle the board by its edges to avoid touching sensitive components, especially the pins.
- **Storage:** Store the board in an anti-static bag when not in use to protect it from electrostatic discharge.
- **Cleaning:** If necessary, gently clean the board with a soft, dry brush or compressed air. Avoid using liquids or abrasive materials.
- **Power Supply:** Ensure you use a stable 5V power supply via the USB-C port. Incorrect voltage can damage the board.

6. TROUBLESHOOTING

If you encounter issues with your XIAO MG24, consider the following troubleshooting steps:

- **Board Not Detected:**
 - Ensure the USB-C cable is fully inserted and functional.
 - Check if the correct board and port are selected in the Arduino IDE.
 - Try a different USB port or computer.
 - Reinstall the board package in the Arduino IDE.
- **Upload Errors:**
 - Verify your code for syntax errors.
 - Ensure the correct board and port are selected.
 - Press the reset button on the board before uploading, if necessary.
- **Connectivity Issues (BLE/Thread/Matter):**
 - Check your code for correct implementation of communication protocols.
 - Ensure the antenna is properly connected (if using an external UFL antenna).
 - Verify that other devices are within range and properly configured.

- **Power Issues:**
 - Confirm the USB power source provides sufficient current.
 - If using a battery, ensure it is charged and correctly connected to the battery charging circuit.

For further assistance, refer to the official Seeed Studio documentation and community forums.

7. SPECIFICATIONS

The following table details the technical specifications of the Seeed Studio XIAO MG24.

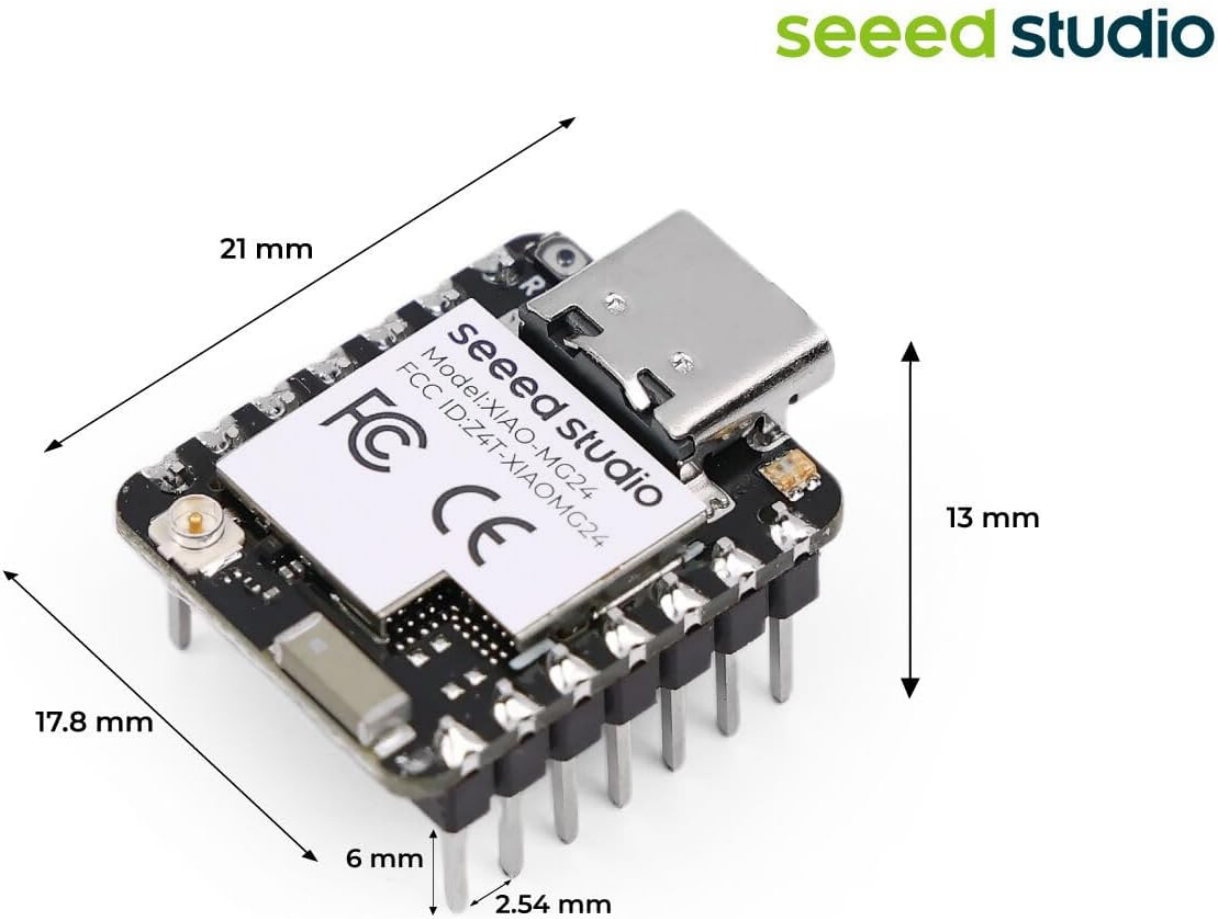


Image 7.1: Seeed Studio XIAO MG24 showing its compact dimensions of 21mm x 17.8mm.

FRONT												BACK											
A0	PC00	D6										PA09	D01	D16	PD02	A18	C5						
A1	PC01	D1										PA08	D12	D17	PA00	A17	SC01						
A2	PC02	D2																					
A3	PC03	D3																					
SDA	A4	PC04	D4																				
SCL	A5	PC05	D5																				
TX0	A6	PC06	D6																				

Image 7.2: Detailed product specifications table for the Seeed Studio XIAO MG24.

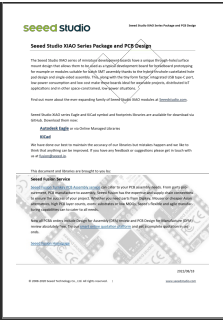
Parameter	XIAO MG24
Processor	Silicon Labs EFR32MG24, ARM Cortex-M33 @ 78MHz
Flash / RAM	1536KB + 4MB Onboard / 256KB
LEDs	1 User LED, 1 Power LED
Interfaces	22 Pins (11x Analog, 11x Digital, 1x I2C, 2x UART, 2x SPI, All PWM)
Buttons	1 Reset Button
Security Features	Hardware Encryption Acceleration, True Random Number Generator, ARM® TrustZone®, Secure Boot, Secure Debug Unlock
Low Power Consumption	Normal: 6.71mA, Sleep: 1.91μA
Software Compatibility	Arduino IDE
Antenna Support	Max 2.4GHz Ceramic Antenna: 4.97dBi
Operating Temperature	-20°C ~ 70°C
Dimensions	21 x 17.8 mm
Item Weight	0.634 ounces
Operating System	FreeRTOS

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Seeed Studio website or contact their customer service directly. Online resources, including documentation, tutorials, and community forums, are available to assist with project development and troubleshooting. Visit the [Seeed Studio Store](#) for more products and information.


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Related Documents - XIAO MG24



[Seeed Studio XIAO Series Package and PCB Design Guide](#)

Detailed technical specifications and PCB design guidance for the Seeed Studio XIAO series of miniature development boards, including SAMD21, RP2040, nRF52840, nRF52840 Sense, and ESP32C3. Features include pinouts, land pattern dimensions, and integration information. Learn about Seeed Fusion services for PCB assembly.


<div><div>ESP32 PRODUCT DETAILS</div><div><div>Features</div><ul style="list-style-type: none">• Integrated connectivity: Combines Wi-Fi and Bluetooth (BLE) and ESP32C6 SoC connectivity, allowing easy access to Internet of Things (IoT).• Ultra-low power: Supports standby, deep-sleep, and ultra-deep-sleep modes, with ultra-low power consumption.• Secure Protection: The ESP32C6 SoC is designed with secure boot, secure storage, and secure execution.• Performance: 32-bit dual-core processor with 240KB SRAM and 512KB Flash, supporting up to 1MB external memory.• Low Supply Current Consumption: Low supply current consumption, supporting 0.1uA in deep-sleep mode.• High BLE Throughput: Supports BLE 5.0, 5.2, and 5.3, with a maximum throughput of 12.5Mbps.• High Wi-Fi Throughput: Supports Wi-Fi 6, with a maximum throughput of 1200Mbps.</div><div></div></div>
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seeed studio		PRODUCT CHANGE NOTIFICATION	
FORM	1. Revision: 01-01	FORM DATE	1. 01.10.2018
REVISION			
TYPE OF CHANGE		CUSTOMER CONTACT	
<input type="checkbox"/> Electrical Specification <input type="checkbox"/> Mechanical Specification <input type="checkbox"/> Assembly Specification <input type="checkbox"/> Regulatory Compliance		<input type="checkbox"/> Part Number <input type="checkbox"/> Drawing Specification <input type="checkbox"/> Material <input type="checkbox"/> Color	
AFFECTED PART NUMBER(S)			
Part Number	Name		
20000001	Seeed Studio XIAO MG24		
20000002	Seeed Studio XIAO MG24 Sense		
20000003	Seeed Studio XIAO MG24 Sense		
20000004	Seeed Studio XIAO MG24 Sense		
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20000100	Seeed Studio XIAO MG24 Sense		

Seeed Studio XIAO Series Packaging Upgrade - Product Change Notification

Product Change Notification from Seeed Studio detailing an upgrade to the packaging for the XIAO Series microcontroller modules. The new packaging includes a white waterproof shell, anti-static foam, and a certification information card.

lang:en score:40 filesize: 417.07 K page_count: 7 document date: 2025-05-20

CTI 华测检测	
Report No. : EED32Q82089903	Page 1 of 8
RF Exposure Evaluation Report	
Product	: XIAO MG24
Trade mark	: Seeed Studio
Model/Type reference	: XIAO MG24, XIAO MG24 Sense
Serial number	: N/A
Report Number	: EED32Q82089903
FCC ID	: Z4T-XIAOMG24
Date of Issue	: Jan. 09, 2025
Test Standards	: 47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result	: PASS
Prepared for: Seeed Technology Co., Ltd. 9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen	
Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3368 FAX: +86-755-3368 3385	
Checked by: 	Reviewed by: 
Kevin Tang	Kevin Tang
Date: Jan. 09, 2025	Date: Jan. 09, 2025
Check No. : 700101204	
Hotline: 400-0780-333 Website: www.cti.com.cn E-mail: ctic@cti.com.cn Complaint: 400-0780-333/1710 Complaint E-mail: complaint@cti.com.cn	

[pdf] SAR Rating

SAR Exclusion Report Seeed Technology Co Ltd XIAOMG24 seeed studio reCamera 2002 Series Z4T Z4TXIAOMG24 xiaomg24

Report No. : EED32Q82089903 Page 1 of 8 RF Exposure Evaluation Report Product : XIAO MG24 Trade mark : Seeed Studio Model/Type reference : XIAO MG24, XIAO MG24 Sense Serial Number : N/A Report Number : EED32Q82089903 FCC ID : Z4T-XIAOMG24 Date of Issue Test Standards : Jan. 09, 2025 ...

lang:en score:36 filesize: 370.41 K page_count: 8 document date: 2025-01-09

seeed studio

Seeed Studio XIAO, tinyML-Ready Platform

Add AI to Almost Everything

The Seeed Studio XIAO Series is a collection of thumb-sized, powerful microcontroller units (MCUs) tailor-made for space-conscious projects requiring high performance and wireless connectivity. Embodying the essence of popular hardware platforms such as ESP32, RP2040, nRF52840, and SAMD21, the Arduino-compatible XIAO series is the perfect choice for you to embrace tiny-machine learning (tinyML) on the edge.

Features

- Popular SoCs Integrated**
MCUs based on ESP32, RP2040, nRF52840, SAMD21, and more to leverage your favourite machine learning applications on the edge.
- Thumb Size with SMD**
Lesser than 20x18 mm with single-sided surface-mount design, ready to board in space-constrained applications.
- TinyML / AI Native**
Compatible with TensorFlow, PyTorch, and other machine learning frameworks. AI-ready hardware and software.
- Developer-Friendly**
Natively compatible with Arduino, supporting PlatformIO, MicroPython, and Python, and many other open-source frameworks.

21x7.8 mm Thumb Size

500,000+ Developer Choices

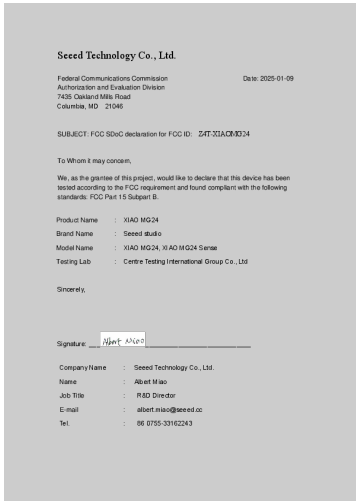
2,000,000+ Pieces Shipped Globally

[pdf] Flyer

XIAO Seeed Studio tinyML Ready Platform The Series is a collection of thumb sized powerful microcontroller units MCUs tailor made for space conscious projects requiring high files seeedstudio Product Flyers |||

Seeed Studio XIAO, tinyML-Ready Platform Add AI to Almost Everything The Seeed Studio XIAO Series i ... perfect for computer vision XIAO ESP32-C6 2.4GHz Wi-Fi 6, BLE 5.0, Zigbee, and Thread for Matter XIAO MG24 XIAO MG24 Sense Super-low power for Super-low power board battery- powered Matter with...

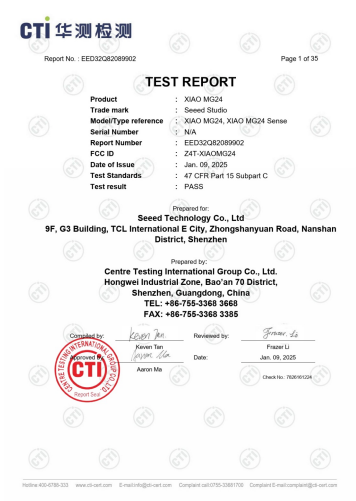
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[pdf] Decleration of Conformity Test Report

Onlywmer FCC SDOC attestation Letter Seeed Technology Co Ltd XIAOMG24 seeed studio reCamera 2002 Series Z4T Z4TXIAOMG24 xiaomg24

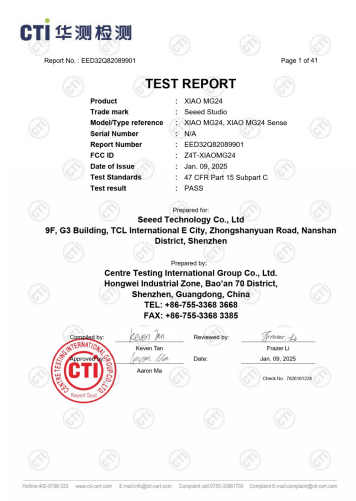
Seeed Technology Co., Ltd. Federal Communications Commission Authorization and Evaluation Division 7 ... the following standards: FCC Part 15 Subpart B. Product Name Brand Name Model Name Testing Lab : **XIAO MG24** : Seeed studio : **XIAO MG24, XIAO MG24** Sense : Centre Testing International Group Co., Ltd ...
lang:tl score:34 filesize: 111.63 K page_count: 1 document date: 2025-01-09



[pdf] Test Report

Zigbee Test Report Seeed Technology Co Ltd XIAOMG24 seeed studio reCamera 2002 Series Z4T Z4TXIAOMG24 xiaomg24

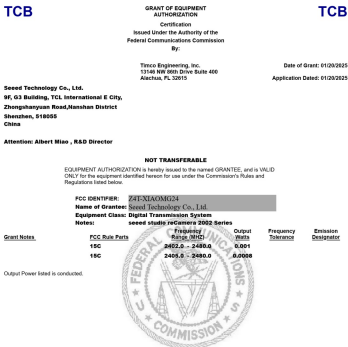
Report No. : EED32Q82089902 Page 1 of 35 TEST REPORT Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards Test result : **XIAO MG24** : Seeed Studio : **XIAO MG24, XIAO MG24** Sense : N/A : EED32Q82089902 : Z4T-XIAOMG24 : Jan. 09, 2025 : 47 CFR Part 15 ...
lang:en score:33 filesize: 1.27 M page_count: 33 document date: 2025-01-20



[pdf] Test Report

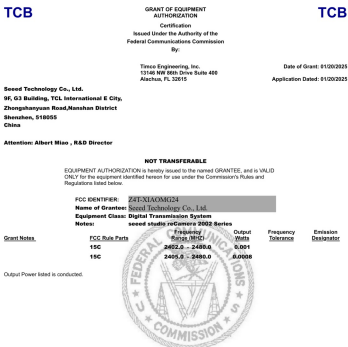
BLE Test Report Seeed Technology Co Ltd XIAOMG24 seeed studio reCamera 2002 Series Z4T Z4TXIAOMG24 xiaomg24

Report No. : EED32Q82089901 Page 1 of 41 TEST REPORT Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards Test result : **XIAO MG24** : Seeed Studio : **XIAO MG24, XIAO MG24** Sense : N/A : EED32Q82089901 : Z4T-XIAOMG24 : Jan. 09, 2025 : 47 CFR Part 15 ...
lang:en score:32 filesize: 1.43 M page_count: 36 document date: 2025-01-20



[Seede Studio XIAO MG24 FCC Authorization and Declaration of Conformity](#)

Official FCC Grant of Equipment Authorization and Declaration of Conformity for the Seede Studio XIAO MG24, detailing compliance with FCC Part 15 rules.
lang:en score:29 filesize: 1.92 M page_count: 3 document date: 2025-02-05



[\[pdf\] Decleration of Conformity](#)

TCB Seede StudioXIAO MG24 Model Number XIAO Sense Brand Name Studio Report EED32Q820898 is herewith confirmed to comply with the 102010690 FCCfiles seeedstudio Certificate documents certificate 102010690 FCC |||
TCB GRANT OF EQUIPMENT AUTHORIZATION Certification Issued Under the Authority of the Federal Commun ... o., Ltd 9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen : **XIAO MG24 : XIAO MG24, XIAO MG24** Sense : Seede Studio : DC 5V : EED32Q820898 Test Standards 47 CFR...

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[Seede Studio 2025 AI](#)

Seede Studio 2025 AI

lang:en score:28 filesize: 17.06 M page_count: 100 document date: 2025-04-29

lang:en score:19 filesize: 16.48 M page count: 99 document date: 2025-03-06



[Seeed Studio 2025 Catálogo de Productos: Hardware de IA, IoT y Edge Computing](#)

Explore el Catálogo de Productos 2025 de Seeed Studio, presentando hardware de IA de vanguardia, soluciones IoT, computación en el borde, sensores, placas de desarrollo y software. Descubra innovaciones para industrias y creadores.

lang:es **score:18** filesize: 13.51 M page_count: 99 document date: 2025-04-07



[\[pdf\] Datasheet Declaration of Conformity](#)

MSP40 Hongyuan Yang Seeed Studio Analog Microphone MSM381ACT001 datasheet XIAO MG24 Sense built in Sensor Wiki 312030602 MEMSensing Datasheet files seeedstudio wiki mg24 mic ||| Data Sheet V 1.1 / Jul. 2021 MSM381ACT001 Analog output MEMS microphone MSM381ACT001 Analog output MEMS microphone GENERAL DESCRIPTION MSM381ACT001 is an omnidirectional, Top-ported, analog output MEMS microphone. It has high performance and reliability. MSM381ACT001 is available in a thin 2.75 m...

lang:en **score:17** filesize: 1.04 M page_count: 11 document date: 2021-07-09