

seeed studio XIAO nRF52840 Sense

Seeed Studio XIAO nRF52840 Sense (Pre-Soldered) User Manual

Model: XIAO nRF52840 Sense

1. INTRODUCTION

This manual provides essential information for the proper use and operation of your Seeed Studio XIAO nRF52840 Sense (Pre-Soldered) microcontroller board. Please read this manual thoroughly before use to ensure optimal performance and longevity of the device.

The Seeed Studio XIAO nRF52840 Sense is a compact, versatile microcontroller board featuring the Nordic nRF52840 chip. It is designed for various applications, including embedded Machine Learning, wearable devices, and IoT projects, offering Bluetooth 5.0, BLE, and NFC capabilities, along with an onboard digital microphone and 6-axis IMU.

2. KEY FEATURES

- **Microcontroller:** Nordic nRF52840 with FPU, operating up to 64 MHz.
- **Wireless Connectivity:** Bluetooth 5.0, BLE, and NFC with an onboard antenna.
- **Sensors:** Integrated digital microphone and 6-axis IMU (Inertial Measurement Unit).
- **Power Management:** Ultra-low power consumption (5 μ A in deep sleep) and lithium battery charge management.
- **Development Support:** Compatible with Arduino and CircuitPython.
- **Compact Design:** Thumb-sized form factor (21 x 17.5mm).

3. SETUP GUIDE

3.1 Package Contents

Verify that your package contains the Seeed Studio XIAO nRF52840 Sense (Pre-Soldered) board.

3.2 Hardware Connection

1. **Connect to Computer:** Use a USB-C cable to connect the XIAO nRF52840 Sense to your computer. Ensure you use a reliable USB 2.0 port if encountering connection issues, as some USB 3.0 ports may cause DFU mode errors.

2. **Power Supply:** The board can be powered via the USB-C port or an external lithium battery (JST connector). The board includes charge management for lithium batteries.



Figure 1: Top view of the Seeed Studio XIAO nRF52840 Sense (Pre-Soldered) board, showing the USB-C port and main chip.

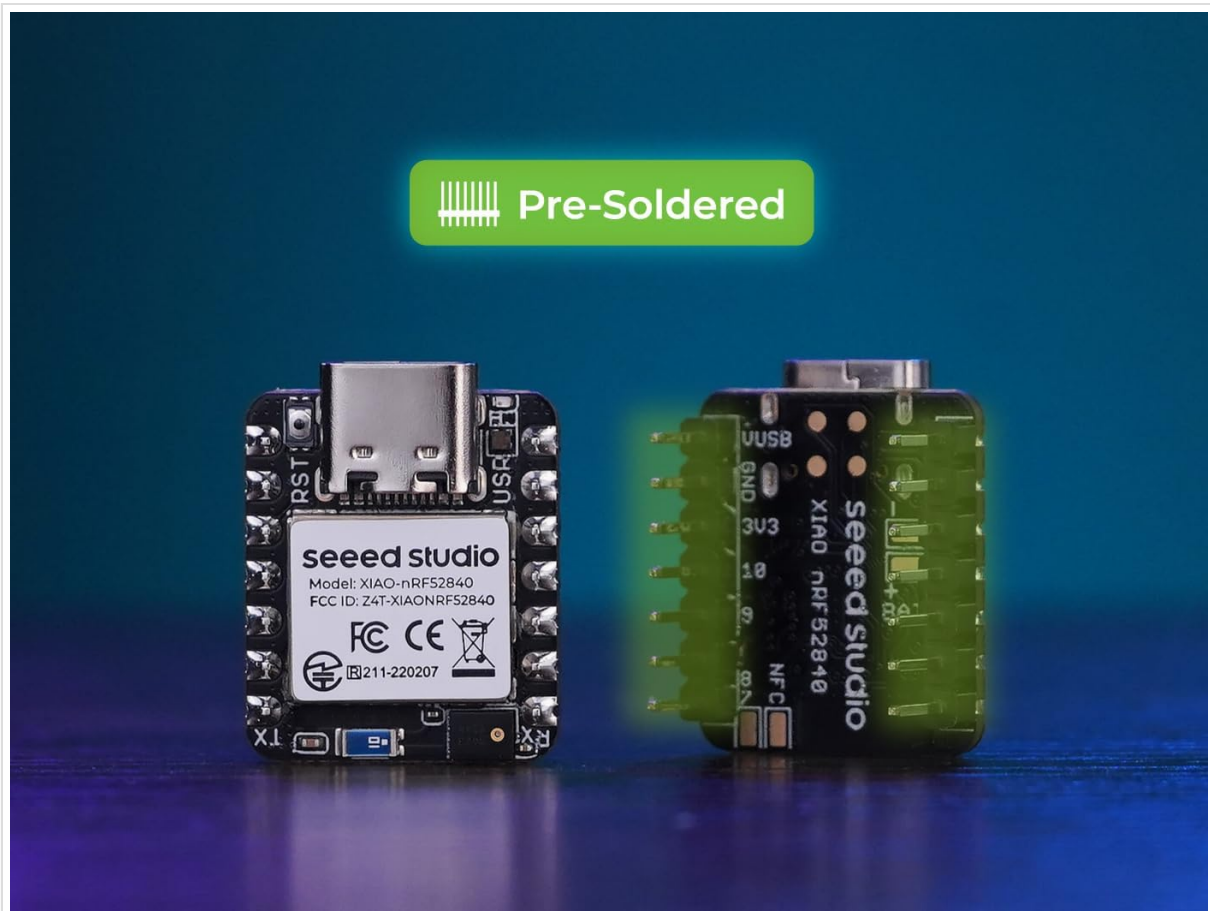


Figure 2: Front and back views of the Seeed Studio XIAO nRF52840 Sense (Pre-Soldered) highlighting the pre-soldered pins.

3.3 Software Setup (Arduino IDE)

1. **Install Arduino IDE:** Download and install the Arduino IDE from the official Arduino website.
2. **Add Board Support:**
 - Open Arduino IDE, go to **File > Preferences**.
 - In "Additional Board Manager URLs", add the URL for Seeed Studio XIAO nRF52840 Sense board support. (*Note: Specific URL can be found on Seeed Studio's official documentation*)
 - Go to **Tools > Board > Board Manager**, search for "Seeed Studio nRF52 Boards" and install it.
3. **Select Board:** Go to **Tools > Board** and select "Seeed Studio XIAO nRF52840 Sense".
4. **Select Port:** Go to **Tools > Port** and select the COM port associated with your XIAO board.

4. OPERATING INSTRUCTIONS

4.1 Uploading Code

1. **Write or Load Sketch:** Open an example sketch or write your own code in the Arduino IDE.
2. **Verify Code:** Click the "Verify" button (checkmark icon) to compile your code and check for errors.
3. **Upload Code:** Click the "Upload" button (right arrow icon) to upload the compiled code to your XIAO nRF52840 Sense board.

4.2 Entering DFU Mode (Bootloader)

To upload new firmware or recover the board, you may need to enter DFU (Device Firmware Upgrade) mode:

- Locate the small reset button on the board.
- Double-click the reset button quickly. The onboard LED may change color or blink to indicate DFU mode.
- In DFU mode, a new drive (often labeled "D" or similar) and a COM port should appear on your computer.



Figure 3: Close-up top view of the XIAO nRF52840 Sense, indicating the location of the reset button.

4.3 Pinout Diagram

Refer to the pinout diagram for detailed information on the board's GPIOs, power pins, and peripheral interfaces.



Figure 4: Detailed pinout diagram for the Seeed Studio XIAO nRF52840 Sense, showing digital, analog, I2C, UART, SPI, and power pins.

5. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the board. Avoid using liquids or solvents.
- **Storage:** Store the board in an anti-static bag in a dry environment when not in use.
- **Firmware Updates:** Regularly check the official Seeed Studio website for the latest firmware and board support package updates to ensure optimal performance and access to new features.

6. TROUBLESHOOTING

- **Board not recognized / "not in DFU mode" error:**

Try connecting the board to a USB 2.0 port instead of a USB 3.0 port. Some users have reported issues with USB 3.0 ports preventing proper DFU mode entry or recognition. Ensure you double-click the reset button to enter DFU mode.
- **Upload failures:**

Verify that the correct board and COM port are selected in the Arduino IDE. Ensure the board is in DFU mode if required for the upload process. Check your USB cable for proper connection and functionality.
- **Board becomes unresponsive or burns out:**

Ensure proper power supply. Avoid reverse polarity when connecting external batteries. If using a lithium battery, ensure correct JST cable connection. Over-current or incorrect wiring can damage the board. If issues persist, contact support.
- **Difficulty finding resources or documentation:**

Refer to the official Seeed Studio documentation and community forums for comprehensive guides

and support. Search for "Seeed Studio XIAO nRF52840 Sense documentation" online.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Processor	Nordic nRF52840 (64 MHz)
RAM	LPDDR (256 KB)
Flash Memory	1 MB
Wireless Type	Bluetooth 5.0, BLE, NFC
Operating System Support	Arduino / CircuitPython
Onboard Sensors	Digital Microphone, 6-axis IMU
Low Power Mode	5 μ A (deep sleep)
Dimensions	21 x 17.5 mm
Item Weight	0.634 ounces
Connectivity Technology	Bluetooth, NFC

8. WARRANTY INFORMATION

For warranty details and terms, please refer to the official Seeed Studio website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

9. SUPPORT AND RESOURCES


For further assistance, technical documentation, tutorials, and community forums, please visit the official Seeed Studio website:

www.seeedstudio.com

You can also find additional resources and project examples on platforms like Hackaday, Hackster.io, and GitHub by searching for "Seeed Studio XIAO nRF52840 Sense".

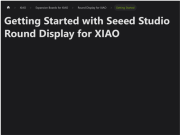

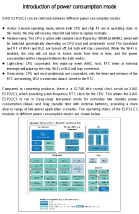


© 2025 Seeed Studio. All rights reserved.

Related Documents - XIAO nRF52840 Sense



[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.

	<p>Getting Started with Seeed Studio Round Display for XIAO</p> <p>A comprehensive guide to setting up and using the Seeed Studio Round Display for XIAO, covering hardware preparation, software installation, and basic usage for this 1.28-inch touch screen expansion board.</p>
	<p>Seeed Studio XIAO ePaper Display Board EE04 Technical Schematics</p> <p>Detailed technical schematics and block diagram for the Seeed Studio XIAO ePaper Display Board EE04. Covers power management, microcontroller integration, and e-ink display interfaces.</p>
	<p>XIAO ESP32C3 Power Consumption Modes and Test Results</p> <p>A comprehensive guide to the power consumption modes of the Seeed Studio XIAO ESP32C3 microcontroller, detailing Active, Modem-sleep, Light-sleep, and Deep-sleep states with corresponding test results and configuration commands.</p>
	<p>SenseCAP Indicator User Manual - Seeed Studio</p> <p>Comprehensive user manual for the Seeed Studio SenseCAP Indicator, an open-source IoT development platform featuring a 4-inch touch screen, ESP32 and RP2040 MCUs, and Wi-Fi/BLE/LoRa connectivity. Includes setup, features, specifications, and development tutorials.</p>
	<p>SenseCAP Indicator User Manual - Seeed Studio</p> <p>Comprehensive user manual for the Seeed Studio SenseCAP Indicator, a 4-inch touch screen IoT development platform powered by ESP32-S3 and RP2040, featuring Wi-Fi, BLE, LoRa, and air quality monitoring capabilities.</p>

Documents - seeed studio – XIAO nRF52840 Sense

Getting Started with Seeed Studio XIAO nRF52840 (Sense)
Oct 15, 2024

As the first wireless product in the Seeed Studio XIAO family, **Seeed Studio XIAO nRF52840** is equipped with a powerful **Nordic nRF52840 MCU** which integrates **Bluetooth 5.0** connectivity. Meanwhile, it has a **small and exquisite form-factor** which can be used for wearable devices and Internet of Things projects. The **single-sided surface-mountable design** and the onboard **Bluetooth antenna** can greatly facilitate the rapid deployment of IoT projects.

In addition, there is an advanced version of this board, **Seeed Studio XIAO nRF52840 Sense**. It is integrated with two extra onboard sensors. One of them is a **Pulse Density Modulation (PDM) Digital Microphone**. It can receive audio data in real-time which allows it to be used for audio recognition. The other one is a **6-axis Inertial Measurement Unit (IMU)**, this IMU can be very useful in TinyML projects like gesture recognition. These onboard sensors provide a great convenience for users while the board is ultra-small.

Compared to Seeed Studio XIAO RP2040, Seeed Studio XIAO nRF52840 contains **richer interfaces**. The first thing to note is that the **Near Field Communication (NFC) interface** is functional on the board. Secondly, there is a tiny **reset button** on the side of the Type-C interface. On the other side, there is a **3-in-one LED (User LED)** along with a **Charge LED** to indicate the charging status when a battery is connected. There are **11 digital I/O** that can be used as **PWM pins** and **6 analog I/O** that can be used as **ADC pins**. It supports all three common serial interfaces such as **UART, I2C, and SPI**. Same as Seeed Studio XIAO RP2040, it has an **onboard 2 MB flash** which means it can also be programmed using

[pdf] Quick Start Guide

Thilo Geismar Seeed Studio XIAO nRF52840 Sense 615YO ztt6L m media amazon images l ref dp product quick view |||

Getting Started with Seeed Studio XIAO nRF52840 Sense Oct 15, 2024 As the first wireless product i ... d deployment of IoT projects. In addition, there is an advanced version of this board, Seeed Studio XIAO nRF52840 Sense. It is integrated with two extra onboard sensors. One of them is a Pulse Density...

lang:en score:55 filesize: 115.35 K page_count: 11 document date: 2024-10-29

kawi fusion@seed io 34 ·PCBA Service Email ·Technical Support techsupport@seed ·Business Enquiry distribut Seed Studio XIAO Series SOM Datasheet files seedstudio wiki 8 giorni fa — The SoM User Manual opens sources hardware and software materials providing professional product design guidelines to help you accelerate your ideas ·PCBA email protected ·SAMD21 Arduino Microcontroller Cortex M0 with Free Course instrukcja obsługi Download ↓ Xiao ESP32 S3 WiFi Bluetooth Seedstudio 113991114 Sklep Botland INTRODUCTION Wiki botland pl index controller attachment id 4770 is a document that provides detailed information about the series of small powerful development boards It covers features specifications pinouts interfaces electrical characteristics such as nRF52840 ESP32C3 also includes some application examples schematics for reference If are mc cid 33d94b71fd eid 63aa07babb BLE TinyML Fusion PCBA service Moreover has Type C interface can supply power code 110010024 Technology Co Ltd DÑÑD½D°D° DD¼ÑD¿ÑÑD¿ D D°D'D¿ D D¼D·D°ÑD°Ñ RX Electronics Limited MG24 Matter Thread 102010590 102010428 rxelectronics ua datasheet 77 quot Módulo Sense TensorFlow Lite IMU Micrófono 5 Hoja de Datos la Serie XIA0 distribut0 XIAOSeed ESP32S3 2 4GHz 8MB PSRAM FLASH ManualSeed w 2x 7 Pin Header DatasheetSeed DatasheetSeedStudio C6 Seed obsługi0 ioSeed Plus C3 user manual0 seedstudioXIAO ManualMódulo RobotShopSeed Botland8 ideas BLE codeSeed o Headers unsoldered 113991054 Robotic ShopSeed areSeed Studio0 distributXIAO Wiki110010024 LimitedSeed BotlandRF RFID Wireless Evaluation Boards Electronic Components Distributor DigiKeyseedstudio seed studio xiao nrf52840 sense tinyml datasheetseed esp32s3 24ghz wifi ble 50 8mb psram flash manualseed mg24 silicon labs efr32mg2 tinyml tensorflow datasheetseedstudio som efr32mg24 matt esp32c6 plus 20 gpio low esp32c3 risc v tiny mcu board datasheetSeed 63aa07babbcdn robotshop media S See RB 855 datasheetfiles Datasheetfiles Datasheetcdn SED RBC Sed 69 manualcdn 61 datasheetcdn 856 51 53 datasheetbotland 4770files 65 58 store Datasheetrxelectronics 102010428files 63aa07babbfiles quotfiles manualv1seed 70 DigiKeyEmbedded MCU DSP 63aa07babbSeed datasheetv1seed 60 supports arduino circui RP2350 MicroPython Ready 19 GPIO Arm M33 Hazard3 RISC V 40 rp2350 raspberry pi micro RA4M1 RA4M1 3 1176 ra4m1 3pcs RP2040 Supports CircuitPython datasheetv1v1seed rp2040 micropython obsługiSeed Dev Board Datasheet0 BotlandSeed Based on 32 Bit Renesas IDE RobotShop8 4770cdn 35 smallest dev based ||| ||| 0 / 34 PCBA Service Email: fusion seed.io Technical Support Email: techsupport seed.io Business Enquiry Email: distribution seed.cc Foreword Why need this SoM User Manual The SoM User Manual opens-sources XIAO hardware and software mater ||| 0 / 34 PCBA Service Email: fusion seed.io Technical Support Email: techsupport seed.io Business Enquiry Email: distribution seed.cc Foreword Why need this SoM User Manual The SoM User Manual opens-sources XIAO hardware and software mater ||| 0 / 34 PCBA Service Email: fusion seed.io Technical Support Email: techsupport seed.io Business Enquiry Email: distribution seed.cc Foreword Why need this SoM User Manual The SoM User Manual opens-sources XIAO hardware and software mater ||| 0 / 34 PCBA Service Email: fusion seed.io Technical Support Email: techsupport seed.io Business Enquiry Email: distribution seed.cc Foreword Why need this SoM User Manual The SoM User Manual opens-sources XIAO hardware and software mater ||| 0 / 34 PCBA Service Email: fusion seed.io Technical Support Email: techsupport seed.io Business E ... XIAO XIAO means Tiny in Chinese. The whole series includes XIAO SAMD21, XIAO RP2040, XIAO nRF52840, XIAO nRF52840 Sense, and XIAO ESP32C3. As the most classic one among XIAO, XIAO SAMD21 has strong st... lang:en score:42 filesize: 2.72 M page count: 34 document date: 2023-02-24





[\[pdf\]](#)

Tutoriel TinyML Carte XIAO ESP32S3 Sense Seeed Studio Cartes GO TRONIC Case Studies files
seeedstudio wiki K1100 quick start |||

TinyML Case Studies Seeed Studio Wio Terminal Seeed Studio Grove-Vision AI
Module Seeed Studio XIAO ESP32S3 Seeed Studio XIAO ESP32S3 Sense Seeed
Studio XIAO nRF52840 Sense Seeed Studio SenseCAP A1101 - LoRaWAN Vision
AI Sensor Seeed Studio SenseCAP K1100 The Sensor Prototype Kit with LoRa and
AI ...

lang:en **score:38** filesize: 4.98 M page_count: 21 document date: 2023-06-12

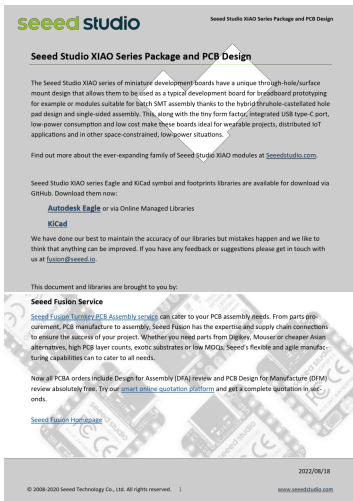
[\[pdf\]](#)

Seeed Studio XIAO Reference DesignXIAO Designseeedstudio blog 2023 10 Design srsItid
AfmBOor0iQqBBwnt yLTKH1cs2dkGOKi8yqlbKmmly8rhHp2vIAoYiKv DesignSeeed
yLTKH1cs2dkGOKi8yqlbKmmly8rhHp2vIAoYiKvseeedstudio AfmBOoo5mVMAoFdFqWLz8
l8FhlxWU0PwarCQt97DEzjq2dMli1uQFZp l8FhlxWU0PwarCQt97DEzjq2dMli1uQFZpseeedstudio
AfmBOorl7uqlDhxrz2QJ6NBbL DiTmSpBy0e 5ys3DAY 6KUQSRhre5c
AfmBOooCfNSpQcM1x0bg26peRFs5nAe2tvTkj4g0coVslDTD 2JPDnglseeedstudio
AfmBOopQjsUPkypS5ZKqg3vAal5iAa08Sfn7faeD6ZFYZ4cNbIOdQheMseeedstudio
AfmBOoqrnxSmts1X6nR86QE0DJ0VQSDHiLUN4agYFQE6RFiAPRMrHtoOseeedstudio
6KUQSRhre5cseeedstudio AfmBOoomnNhXPh93FXCYr LqFa0vbUfJfbjZak4a RQS 4pJZ4gA 9W8 is a
series of ready for production developmemt boards with compact design thumb sized form factor powerful
processors and rich peripheralsXIAO AfmBOopWKJOhr7hMghjM Lje1pF3efG8Wkhg0D
jfVWEYkcGJQYGQ0BBseeedstudio 9W8seeedstudio AfmBOorxDaxdusn
Go0vrVLRmf0zUsKNTjAMvIFZVxnZ29U T8PoPiYj
AfmBOooBBGtW8XBt1z0HKtVJvVFIPI841myOnfSaEb0ORBtXlriAtU36seeedstudio ||| ||| Seeed Studio
XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO
Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs
XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series:
Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That
Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio
XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO
Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs
XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series:
Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That
Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio
XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO
Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs
XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series:
Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That
Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio
XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO
Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs
XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series:
Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That
Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio
XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO
Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs
XIAO is a series of ready-for-produ

Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big
on Features Seeed Studio XIAO Series Extremely Compact Development Boards
That Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-
production developmemt boards with compact design, thumb-sized ...

lang:en score:38 filesize: 10.41 M page_count: 24 document date: 2023-07-20





[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.

lang:en score:38 filesize: 614.51 K page_count: 7 document date: 2022-08-18

[\[pdf\]](#)

Seeed Studio XIAO RP2040 Prend en charge Arduino MicroPython CircuitPython Design de référenceSeeed RobotShopv1cdn robotshop media S See RB 874 seeedstudio seeed studio xiao rp2040 supports ardu reference design nRF52840 Reference DesignSeeed RobotShopSeeed BLE RobotShopv1v1cdn designcdn SED RBC Sed 60 nrf52840 arduino circui référenceSeeedStudio Seeed 2 x 7 3 RobotShopv1v1v1cdn 1165 3pcs Supports DesignSeeedStudio RobotShopv1v1v1v1cdn 34 micropyt RobotShopv1v1v1v1v1cdn DesignXIAO 14 24MbSeeed ESP32C3 projekte infov1v1v1v1XIAO Designv1cdn shopify s files 1 0903 0218 5736 v 1742464967cdn ||| ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ ||| Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-produ Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big on Features Seeed Studio XIAO Series Extremely Compact Development Boards That Can Act as Functional Modules in Your Designs XIAO is a series of ready-for-production developmentemt boards with compact design, thumb-sized ...

lang:en score:36 filesize: 13.58 M page_count: 33 document date: 2023-12-04



[Seeed Studio XIAO Reference Designs: Compact and Powerful Development Boards](#)

Explore a variety of innovative projects and reference designs powered by the Seeed Studio XIAO series of compact development boards. Discover applications in IoT, smart home, robotics, wearables, and more, highlighting the versatility and capabilities of XIAO microcontrollers.

lang:en score:35 filesize: 10.41 M page_count: 24 document date: 2023-07-20

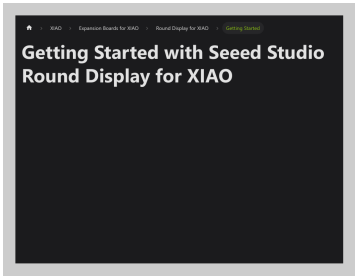




[pdf] Flyer

XIAO Seed 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 seedstudio Product Flyers |||

Seed Studio XIAO, tinyML-Ready Platform Add AI to Almost Everything The Seed Studio XIAO Series i ... s XIAO nRF52840 Ultra-low power consumption, perfect for BLE applications BLE Wi-Fi BLE Wi-Fi XIAO nRF52840 Sense XIAO RP2040 Raspberry Pi Ecosystem Raspberry Pi Ecosystem with great MicroPyth... lang:en score:34 filesize: 5.97 M page_count: 2 document date: 2025-03-05



Getting Started with Seed Studio Round Display for XIAO

A comprehensive guide to setting up and using the Seed Studio Round Display for XIAO, covering hardware preparation, software installation, and basic usage for this 1.28-inch touch screen expansion board. lang:en score:34 filesize: 21.92 M page_count: 58 document date: 2023-12-19

seeed studio		PRODUCT CHANGE NOTIFICATION	
PCN#	PCS-2024-09-001	PCN ISSUE DATE	May 20, 2024
PCN TITLE	XIAO Series Packaging Upgrade		
DESCRIPTION	CUSTOMER CONTACT		
TYPE OF CHANGE			
<input checked="" type="checkbox"/> Change of Packaging		<input type="checkbox"/> Part Number	
<input type="checkbox"/> Change of Label/Marking		<input type="checkbox"/> Change of Certification	
<input type="checkbox"/> Change of Material		<input type="checkbox"/> Change of RoHS	
<input type="checkbox"/> Regulatory Compliance		<input type="checkbox"/> Other	
AFFECTED PART NUMBER(S)			
Part Number	Name		
100000001	Seed Studio XIAO ESP32-S3		
100000002	Seed Studio XIAO RP2040		
100000003	Seed Studio XIAO nRF52840		
100000004	Seed Studio XIAO nRF52840 Plus		
100000005	Seed Studio XIAO nRF52840 Sense		
100000006	Seed Studio XIAO nRF52840 Sense Plus		
100000007	Seed Studio XIAO nRF52840 Sense Plus		
100000008	Seed Studio XIAO nRF52840 Sense Plus		
100000009	Seed Studio XIAO nRF52840 Sense Plus		
100000010	Seed Studio XIAO nRF52840 Sense Plus		
100000011	Seed Studio XIAO nRF52840 Sense Plus		
100000012	Seed Studio XIAO nRF52840 Sense Plus		
100000013	Seed Studio XIAO nRF52840 Sense Plus		
100000014	Seed Studio XIAO nRF52840 Sense Plus		
100000015	Seed Studio XIAO nRF52840 Sense Plus		
100000016	Seed Studio XIAO nRF52840 Sense Plus		
100000017	Seed Studio XIAO nRF52840 Sense Plus		
100000018	Seed Studio XIAO nRF52840 Sense Plus		
100000019	Seed Studio XIAO nRF52840 Sense Plus		
100000020	Seed Studio XIAO nRF52840 Sense Plus		
100000021	Seed Studio XIAO nRF52840 Sense Plus		
100000022	Seed Studio XIAO nRF52840 Sense Plus		
100000023	Seed Studio XIAO nRF52840 Sense Plus		
100000024	Seed Studio XIAO nRF52840 Sense Plus		
100000025	Seed Studio XIAO nRF52840 Sense Plus		
100000026	Seed Studio XIAO nRF52840 Sense Plus		
100000027	Seed Studio XIAO nRF52840 Sense Plus		
100000028	Seed Studio XIAO nRF52840 Sense Plus		
100000029	Seed Studio XIAO nRF52840 Sense Plus		
100000030	Seed Studio XIAO nRF52840 Sense Plus		
100000031	Seed Studio XIAO nRF52840 Sense Plus		
100000032	Seed Studio XIAO nRF52840 Sense Plus		
100000033	Seed Studio XIAO nRF52840 Sense Plus		
100000034	Seed Studio XIAO nRF52840 Sense Plus		
100000035	Seed Studio XIAO nRF52840 Sense Plus		
100000036	Seed Studio XIAO nRF52840 Sense Plus		
100000037	Seed Studio XIAO nRF52840 Sense Plus		
100000038	Seed Studio XIAO nRF52840 Sense Plus		
100000039	Seed Studio XIAO nRF52840 Sense Plus		
100000040	Seed Studio XIAO nRF52840 Sense Plus		
100000041	Seed Studio XIAO nRF52840 Sense Plus		
100000042	Seed Studio XIAO nRF52840 Sense Plus		
100000043	Seed Studio XIAO nRF52840 Sense Plus		
100000044	Seed Studio XIAO nRF52840 Sense Plus		
100000045	Seed Studio XIAO nRF52840 Sense Plus		
100000046	Seed Studio XIAO nRF52840 Sense Plus		
100000047	Seed Studio XIAO nRF52840 Sense Plus		
100000048	Seed Studio XIAO nRF52840 Sense Plus		
100000049	Seed Studio XIAO nRF52840 Sense Plus		
100000050	Seed Studio XIAO nRF52840 Sense Plus		
100000051	Seed Studio XIAO nRF52840 Sense Plus		
100000052	Seed Studio XIAO nRF52840 Sense Plus		
100000053	Seed Studio XIAO nRF52840 Sense Plus		
100000054	Seed Studio XIAO nRF52840 Sense Plus		
100000055	Seed Studio XIAO nRF52840 Sense Plus		
100000056	Seed Studio XIAO nRF52840 Sense Plus		
100000057	Seed Studio XIAO nRF52840 Sense Plus		
100000058	Seed Studio XIAO nRF52840 Sense Plus		
100000059	Seed Studio XIAO nRF52840 Sense Plus		
100000060	Seed Studio XIAO nRF52840 Sense Plus		
100000061	Seed Studio XIAO nRF52840 Sense Plus		
100000062	Seed Studio XIAO nRF52840 Sense Plus		
100000063	Seed Studio XIAO nRF52840 Sense Plus		
100000064	Seed Studio XIAO nRF52840 Sense Plus		
100000065	Seed Studio XIAO nRF52840 Sense Plus		
100000066	Seed Studio XIAO nRF52840 Sense Plus		
100000067	Seed Studio XIAO nRF52840 Sense Plus		
100000068	Seed Studio XIAO nRF52840 Sense Plus		
100000069	Seed Studio XIAO nRF52840 Sense Plus		
100000070	Seed Studio XIAO nRF52840 Sense Plus		
100000071	Seed Studio XIAO nRF52840 Sense Plus		
100000072	Seed Studio XIAO nRF52840 Sense Plus		
100000073	Seed Studio XIAO nRF52840 Sense Plus		
100000074	Seed Studio XIAO nRF52840 Sense Plus		
100000075	Seed Studio XIAO nRF52840 Sense Plus		
100000076	Seed Studio XIAO nRF52840 Sense Plus		
100000077	Seed Studio XIAO nRF52840 Sense Plus		
100000078	Seed Studio XIAO nRF52840 Sense Plus		
100000079	Seed Studio XIAO nRF52840 Sense Plus		
100000080	Seed Studio XIAO nRF52840 Sense Plus		
100000081	Seed Studio XIAO nRF52840 Sense Plus		
100000082	Seed Studio XIAO nRF52840 Sense Plus		
100000083	Seed Studio XIAO nRF52840 Sense Plus		
100000084	Seed Studio XIAO nRF52840 Sense Plus		
100000085	Seed Studio XIAO nRF52840 Sense Plus		
100000086	Seed Studio XIAO nRF52840 Sense Plus		
100000087	Seed Studio XIAO nRF52840 Sense Plus		
100000088	Seed Studio XIAO nRF52840 Sense Plus		
100000089	Seed Studio XIAO nRF52840 Sense Plus		
100000090	Seed Studio XIAO nRF52840 Sense Plus		
100000091	Seed Studio XIAO nRF52840 Sense Plus		
100000092	Seed Studio XIAO nRF52840 Sense Plus		
100000093	Seed Studio XIAO nRF52840 Sense Plus		
100000094	Seed Studio XIAO nRF52840 Sense Plus		
100000095	Seed Studio XIAO nRF52840 Sense Plus		
100000096	Seed Studio XIAO nRF52840 Sense Plus		
100000097	Seed Studio XIAO nRF52840 Sense Plus		
100000098	Seed Studio XIAO nRF52840 Sense Plus		
100000099	Seed Studio XIAO nRF52840 Sense Plus		
100000100	Seed Studio XIAO nRF52840 Sense Plus		
100000101	Seed Studio XIAO nRF52840 Sense Plus		
100000102	Seed Studio XIAO nRF52840 Sense Plus		
100000103	Seed Studio XIAO nRF52840 Sense Plus		
100000104	Seed Studio XIAO nRF52840 Sense Plus		
100000105	Seed Studio XIAO nRF52840 Sense Plus		
100000106	Seed Studio XIAO nRF52840 Sense Plus		
100000107	Seed Studio XIAO nRF52840 Sense Plus		
100000108	Seed Studio XIAO nRF52840 Sense Plus		
100000109	Seed Studio XIAO nRF52840 Sense Plus		
100000110	Seed Studio XIAO nRF52840 Sense Plus		
100000111	Seed Studio XIAO nRF52840 Sense Plus		
100000112	Seed Studio XIAO nRF52840 Sense Plus		
100000113	Seed Studio XIAO nRF52840 Sense Plus		
100000114	Seed Studio XIAO nRF52840 Sense Plus		
100000115	Seed Studio XIAO nRF52840 Sense Plus		
100000116	Seed Studio XIAO nRF52840 Sense Plus		
100000117	Seed Studio XIAO nRF52840 Sense Plus		
100000118	Seed Studio XIAO nRF52840 Sense Plus		
100000119	Seed Studio XIAO nRF52840 Sense Plus		
100000120	Seed Studio XIAO nRF52840 Sense Plus		
100000121	Seed Studio XIAO nRF52840 Sense Plus		
100000122	Seed Studio XIAO nRF52840 Sense Plus		
100000123	Seed Studio XIAO nRF52840 Sense Plus		
100000124	Seed Studio XIAO nRF52840 Sense Plus		
100000125	Seed Studio XIAO nRF52840 Sense Plus		
100000126	Seed Studio XIAO nRF52840 Sense Plus		
100000127	Seed Studio XIAO nRF52840 Sense Plus		
100000128	Seed Studio XIAO nRF52840 Sense Plus		
100000129	Seed Studio XIAO nRF52840 Sense Plus		
100000130	Seed Studio XIAO nRF52840 Sense Plus		
100000131	Seed Studio XIAO nRF52840 Sense Plus		
100000132	Seed Studio XIAO nRF52840 Sense Plus		
100000133	Seed Studio XIAO nRF52840 Sense Plus		
100000134	Seed Studio XIAO nRF52840 Sense Plus		
100000135	Seed Studio XIAO nRF52840 Sense Plus		
100000136	Seed Studio XIAO nRF52840 Sense Plus		
100000137	Seed Studio XIAO nRF52840 Sense Plus		
100000138	Seed Studio XIAO nRF52840 Sense Plus		
100000139	Seed Studio XIAO nRF52840 Sense Plus		
100000140	Seed Studio XIAO nRF52840 Sense Plus		
100000141	Seed Studio XIAO nRF52840 Sense Plus		
100000142	Seed Studio XIAO nRF52840 Sense Plus		
100000143	Seed Studio XIAO nRF52840 Sense Plus		
100000144	Seed Studio XIAO nRF52840 Sense Plus		
100000145	Seed Studio XIAO nRF52840 Sense Plus		
100000146	Seed Studio XIAO nRF52840 Sense Plus		
100000147	Seed Studio XIAO nRF52840 Sense Plus		
100000148	Seed Studio XIAO nRF52840 Sense Plus		
100000149	Seed Studio XIAO nRF52840 Sense Plus		
100000150	Seed Studio XIAO nRF52840 Sense Plus		
100000151	Seed Studio XIAO nRF52840 Sense Plus		
100000152	Seed Studio XIAO nRF52840 Sense Plus		
100000153	Seed Studio XIAO nRF52840 Sense Plus		
100000154	Seed Studio XIAO nRF52840 Sense Plus		
100000155	Seed Studio XIAO nRF52840 Sense Plus		
100000156	Seed Studio XIAO nRF52840 Sense Plus		
100000157	Seed Studio XIAO nRF52840 Sense Plus		
100000158	Seed Studio XIAO nRF52840 Sense Plus		
100000159	Seed Studio XIAO nRF52840 Sense Plus		
100000160	Seed Studio XIAO nRF52840 Sense Plus		
100000161	Seed Studio XIAO nRF52840 Sense Plus		
100000162	Seed Studio XIAO nRF52840 Sense Plus		
100000163	Seed Studio XIAO nRF52840 Sense Plus		
100000164	Seed Studio XIAO nRF52840 Sense Plus		
100000165	Seed Studio XIAO nRF52840 Sense Plus		
100000166	Seed Studio XIAO nRF52840 Sense Plus		
100000167	Seed Studio XIAO nRF52840 Sense Plus		
100000168	Seed Studio XIAO nRF52840 Sense Plus		
100000169	Seed Studio XIAO nRF52840 Sense Plus		
100000170	Seed Studio XIAO nRF52840 Sense Plus		
100000171	Seed Studio XIAO nRF52840 Sense Plus		
100000172	Seed Studio XIAO nRF52840 Sense Plus		
100000173	Seed Studio XIAO nRF52840 Sense Plus		
100000174	Seed Studio XIAO nRF52840 Sense Plus		
100000175	Seed Studio XIAO nRF52840 Sense Plus		
100000176	Seed Studio XIAO nRF52840 Sense Plus		
100000177	Seed Studio XIAO nRF52840 Sense Plus		
100000178	Seed Studio XIAO nRF52840 Sense Plus		
100000179	Seed Studio XIAO nRF52840 Sense Plus		
100000180	Seed Studio XIAO nRF52840 Sense Plus		
100000181	Seed Studio XIAO nRF52840 Sense Plus		
100000182	Seed Studio XIAO nRF52840 Sense Plus		
100000183	Seed Studio XIAO nRF52840 Sense Plus		
100000184	Seed Studio XIAO nRF52840 Sense Plus		
100000185	Seed Studio XIAO nRF52840 Sense Plus		
100000186	Seed Studio XIAO nRF52840 Sense Plus		
100000187	Seed Studio XIAO nRF52840 Sense Plus		
100000188	Seed Studio XIAO nRF52840 Sense Plus		
100000189	Seed Studio XIAO nRF52840 Sense Plus		
100000190	Seed Studio XIAO nRF52840 Sense Plus		
100000191	Seed Studio XIAO nRF52840 Sense Plus		
100000192	Seed Studio XIAO nRF52840 Sense Plus		
100000193	Seed Studio XIAO nRF52840 Sense Plus		
100000194	Seed Studio XIAO nRF52840 Sense Plus		
100000195	Seed Studio XIAO nRF52840 Sense Plus		
100000196	Seed Studio XIAO nRF52840 Sense Plus		
100000197	Seed Studio XIAO nRF52840 Sense Plus		
100000198	Seed Studio XIAO nRF52840 Sense Plus		
100000199	Seed Studio XIAO nRF52840 Sense Plus		
100000200	Seed Studio XIAO nRF52840 Sense Plus		



[\[pdf\]](#) Catalog

XIAO Big Power Small Board Mastering Arduino and TinyML Seeed Studio Lei Feng Marcelo Rovai files
seedstudio wiki ebookEmbedded machine learning for fault detection in conveyor systems using multi
sensor data discrete wavelet transform VietnXIAO v20240307files ebook photo v20240307 |||
XIAO: Big Power, Small Board Mastering Arduino and TinyML 2 XIAO: Big Power,
Small Board - Masteri ... cation of Tiny Machine Learning TinyML , emphasizing its
transformative power in hardware like the XIAO nRF52840 Sense and ESP32S3
Sense. Techniques to utilize advanced tools such as Edge Impulse...
lang:en score:32 filesize: 67.2 M page_count: 296 document date: 2024-03-07



[Seeed Studio XIAO Product Compliance Certificate - RoHS](#)

This document certifies that various Seeed Studio XIAO series development boards
comply with the European Union's Restriction of Hazardous Substances (RoHS)
Directive 2011/65/EU, as amended by (EU) 2015/863. Tested according to IEC 62321
standards.
lang:en score:31 filesize: 572.41 K page_count: 3 document date: 2025-05-23



[\[pdf\]](#) Datasheet

TinyML Case Studies Datasheet 5 22MbSeeed Studio XIAO ESP32S3 arduino projekte infocdn shopify s
files 1 0903 0218 5736 v 1735826193 |||
TinyML Case Studies Seeed Studio Wio Terminal Seeed Studio Grove-Vision AI
Module Seeed Studio XIAO ESP32S3 Seeed Studio XIAO ESP32S3 Sense Seeed
Studio XIAO nRF52840 Sense Seeed Studio SenseCAP A1101 - LoRaWAN Vision
AI Sensor Seeed Studio SenseCAP K1100 The Sensor Prototype Kit with LoRa and
AI ...
lang:en score:30 filesize: 4.98 M page_count: 21 document date: 2023-06-12

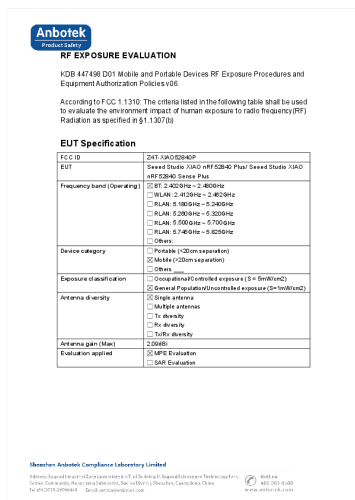


[Seeed Studio 2025 AI](#)

Seeed Studio 2025 AI
lang:en score:29 filesize: 17.06 M page_count: 100 document date: 2025-04-29



Seeed Studio Xiao Series consists of 7 versions to satisfy the diverse needs of makers, product designers, and educators. If you're a maker, you can take advantage of its rich community resources to get inspiration and knowledge for your own projects. The Xiao Series offers educators a comprehensive getting-started course and detailed wikis to quickly learn how to use Xiao for their projects. If you're a product designer, Xiao S01 User Manual covers everything from Module Selection to Mass Production.



[\[pdf\]](#) User Manual

xiao share files seeedstudio wiki XIAO |||

Seed Studio XIAO Series: Small in Size, Big on Features Extremely Compact Development Boards That C ... Table Seed Studio XIAO SAMD21 Seed Studio XIAO RP2040 Seed Studio XIAO nRF52840 Seed Studio XIAO nRF52840 Sense Seed Studio Seed Studio Seed Studio XIAO XIAO XIAO ESP32S3 ESP32C3 ESP3...

lang:en score:29 filesize: 6.13 M page_count: 4 document date: 2023-06-27

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

Microsoft Word Certificate RED ting lv 102010448 CEfiles seeedstudio Seeed documents certificate CE

SHENZHEN ACCURATE TECHNOLOGY CO., LTD www.atc-lab.com ATTESTATION
OF CONFORMITY Attestation Number ... rovince, P.R.C Product: Name: Model s :
Multiple Product: Multiple Model: Manufacturer Address: XIAO nRF52840 Sense
XIAO-nRF52840 Sense XIAO nRF52840 XIAO-nRF52840 Sseed Technology Co.,
Ltd 9F, G3...

lang:en score:27 filesize: 1.13 M page count: 1 document date: 2022-03-16

[\[pdf\]](#) Specifications SAR Rating

RF EXPOSURE EVALUATION zhaowen MPE Seeed Technology Co Ltd XIAO52840P Studio XIAO
nRF52840 Plus Sense Z4T Z4TXIAO52840P xiao52840p

RF EXPOSURE EVALUATION KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipme ... Antenna gain Max Evaluation applied Z4T-XIAO52840P Seeed Studio XIAO nRF52840 Plus/ Seeed Studio XIAO nRF52840 Sense Plus BT: 2.402GHz - 2.480GHz WLAN: 2.412GHz - 2.462GHz RLAN: 5.180GHz - 5.240GHz...

lang:en score:26 filesize: 278.91 K page_count: 2 document date: 2025-04-22



[pdf] Label

Mann Tzy Duh Attestation Statements Kaspersky Rev 1 0 Seeed Technology Co Ltd XIAO52840P Studio

XIAO nRF52840 Plus Sense Z4T Z4TXIAO52840P xiao52840p

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

are Requirements FCC ID: Z4T-XIAO52840P

Product Name: Seeed Studio XIAO nRF52840 Plus/ Seeed Studio XIAO nRF52840

Sense Plus This letter serves as an attestation that the equipment identified above

is...

lang:en score:26 filesize: 118.91 K page_count: 2 document date: 2025-04-22



[pdf]

XIAO REFERENCE DESIGN cdn reichelt de documents datenblatt A300 |||

Seeed Studio XIAO Reference Design Seeed Studio XIAO Series: Small in Size, Big

on Features Seeed ... ption Seeed Studio XIAO SAMD21 Seeed Studio XIAO RP2040

Seeed Studio XIAO nRF52840 Seeed Studio XIAO nRF52840 Sense Seeed Studio

XIAO ESP32C3 Seeed Studio XIAO ESP32S3 Seeed Studio XIAO ESP32S3...

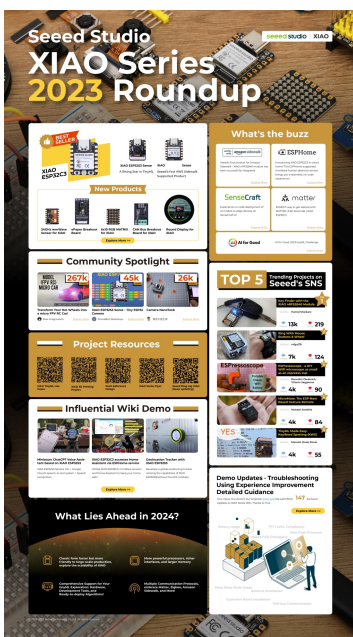
lang:en score:26 filesize: 13.58 M page_count: 33 document date: 2023-12-04



[Seeed Studio 2023 Product Catalog: IoT, Edge Computing, and AI Solutions](#)

Explore the Seeed Studio 2023 Product Catalog, featuring a comprehensive range of IoT hardware, edge computing devices, AI solutions, sensors, development boards, and more. Discover solutions for smart agriculture, industrial automation, and digital transformation.

lang:en score:25 filesize: 57.45 M page_count: 228 document date: 2023-03-10



[pdf] Flyer

xiao 2023XIAO Roundup Infographic v2 0 files seeedstudio wiki XIAO |||

Seeed Studio XIAO Series 2023 Roundup SBEELSLTER What s the buzz

XESIAPO32C3 XIAO ESP32S3 Sense XIAO nRF52840 Sense A Rising Star in

TinyML Seeed s first AWS Sidewalk Supported Product New Products 24GHz

mmWave ePaper Breakout 6x10 RGB MATRIX CAN Bus Breakout Round Display for

Sensor for XIAO ...

lang:en score:24 filesize: 5.13 M page_count: 1 document date: 2023-12-19



[Seeed Studio 2025 Product Catalog: AI Hardware, Edge Computing, and IoT Solutions](#)

Explore the Seeed Studio 2025 Product Catalog featuring AI hardware, sensor networks, edge computing solutions (NVIDIA Jetson, Raspberry Pi), SenseCraft software, and IoT devices. Discover open-source innovation for developers and industries.

lang:en **score:17** 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:16** filesize: 13.51 M page_count: 99 document date: 2025-04-07