

INDUSTRIAL PRODUCT DATASHEET

XIAO 1.47" IPS Touch Display(nRF52840)

A compact BLE and battery-powered smart device board with a 1.47-inch touch display, microphone, and IMU for building smart badges, AI wearable prototypes, BLE remote controllers, motion-based interaction devices, and interactive toys.

SKU	UPDATED	PRICE
100004242	2026-09-24 01:02:47	\$19.90(Excl. VAT)



Overview



The XIAO 1.47" IPS Touch Display(nRF52840) is a mini smart device board that combines a 1.47-inch color touch display, microphone, IMU, and Bluetooth connectivity for portable, battery-powered projects. It enables building finished-looking prototypes with touch menus, sound response, and motion sensing, and is well suited for smart badges, AI wearable prototypes, BLE remote controllers, motion-based interaction devices, and interactive toys.

Key Features

- **A Mini Smart Device Board for Portable Projects**

If you want to build a small device that can be held, worn, or built into an enclosure, you usually need a screen, touch input, buttons, battery support, sensors, and Bluetooth connectivity. This board brings these key parts together, so you can focus on the project itself: building the UI, adding interaction, reading motion, and connecting to a phone or other Bluetooth devices, instead of starting with many separate modules and wires.

- **Make Your Projects That Look and Feel More Finished**

The 1.47-inch color touch display helps your project move beyond serial output, LEDs, or rough test setups. You can build menus, status pages, icons, buttons, sensor dashboards, and simple animations, making your prototype easier to show, use, and share. For demos, customer presentations, classroom projects, and maker builds, it helps the final result feel much more complete.

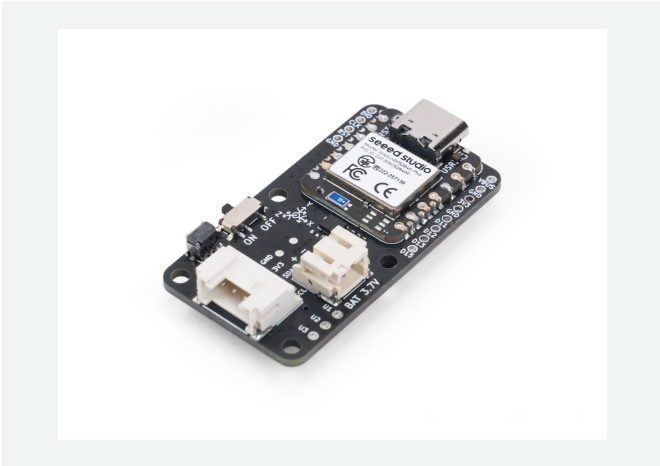
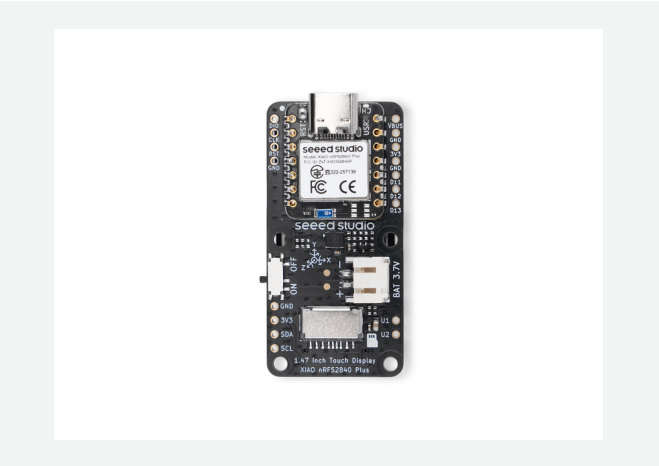
- **Touch, Sound, and Motion Sensing in One Small Board**

This board does more than show information. It also gives your project multiple ways to respond to the user. The touch screen is great for menus and controls. The microphone can be used for recording, sound triggers, or voice interaction. The IMU can detect orientation, shaking, flipping, and motion. With these built in, you can build a small device that can “listen”, “move”, and respond to touch, not just display data.

- **Built for BLE and Battery-Powered Ideas**

Powered by XIAO nRF52840 Plus, this version is a good fit for Bluetooth and battery-powered projects. Use it to build a BLE remote, motion controller, smart badge, wearable notifier, motion-aware device, or a mini Bluetooth terminal that connects to a phone, computer, or gateway. For projects that do not need Wi-Fi but need to stay small and mobile, this version is a better match.

Product Gallery



Specification

Specification	XIAO 1.47" IPS Touch Display(nRF52840)	XIAO 1.14" IPS Display(nRF52840)	XIAO 0.96" IPS Display(nRF52840)
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Product Positioning	Touch & Full Interaction	Sensing & Expansion	Ultra-Compact
Core Controller	Seeed Studio XIAO nRF52840 Plus		
Processor	Nordic nRF52840, ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz		
Memory	256 KB RAM + 1 MB internal Flash + 2 MB onboard Flash		
Wireless Connectivity	BLE 5.4		
Display Type	1.47" IPS TFT LCD	1.14" IPS TFT LCD	0.96" IPS TFT LCD
Resolution	172 × 320	135 × 240	80 × 160
Display Driver	JD9853A	ST7789	ST7789
Display Interface	SPI		
Touch Input	Capacitive Touch	No	No
6-Axis IMU	Yes		
PDM Digital Microphone	Yes		
MicroSD Card Slot	Yes	No	No
Grove I2C Connector	No	Yes	No
User Buttons	2	3	2
Battery Connector	2-pin JST 2.0 Connector for 3.7 V LiPo		
Battery Monitoring	Battery status detection supported; battery voltage can also be monitored for battery-level estimation.		
Expansion Interfaces	1x I2C Interface 1x I2S Interface 1x SWD Interface 2x User Button Interface	1x I2C Interface 1x I2S Interface 1x SWD Interface 3x User Button Interface	1x I2C Interface 1x I2S Interface 1x SWD Interface 2x User Button Interface
Board Size	26.4 × 51.4 × 12.6 mm	26 × 48 × 10.6 mm	18.8 × 43.6 × 10.6 mm
Best For	Touch UI, portable HMI, local media and data logging	Portable sensor displays, Grove devices, physical controllers	Smart badges, tiny wearables, BLE status displays

Hardware Overview



Applications

- Smart Badge
- AI Wearable Prototype
- BLE Remote Controller
- Motion-Based Interaction Device
- Digital Pet and Interactive Toy

Part List

XIAO 1.47" IPS Display(nRF52840)	×1
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Compliance & Logistics

HSCODE	8517629990
USHSCODE	8517620010
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/1-47-Inch-Touch-Display-Powered-by-XIAO-nRF52840-Plus-p-6995.html>
- [Wiki-XIAO 1.47" IPS Display\(nRF52840\) Resources](#)
- [3D-Printed Enclosure for XIAO 1.47" Touch Display — Designed by Gokul](#)

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