seeed studio

INDUSTRIAL PRODUCT DATASHEET

XIAO 0.96'' IPS Display(nRF52840)

The XIAO 0.96'' IPS Display(nRF52840) is an ultra-compact BLE smart device board with a 0.96-inch IPS display, microphone, motion sensing, and buttons for smart badges, wearable notifiers, and miniature status displays.

SKU	UPDATED	PRICE
100063377	2026-09-28 01:04:24	$15.90(Excl. VAT)

Overview

The XIAO 0.96'' IPS Display(nRF52840) is an ultra-compact smart device board with a board width of only 17.8 mm, making it the smallest model in the XIAO IPS Display series. It combines a 0.96-inch 80 × 160 IPS display, PDM microphone, 6-axis IMU, two physical buttons, battery support, and Bluetooth Low Energy connectivity, powered by the XIAO nRF52840 Plus.

Key Features

- **An Ultra-Compact Smart Device Board**
  With a board width of only 17.8 mm, this is the smallest model in the XIAO IPS Display series. It brings display, motion sensing, audio input, physical buttons, battery support, and Bluetooth connectivity into a form factor that remains close to the width of a XIAO board, making it easier to build compact enclosures, badges, pendants, and wearable devices.

- **Essential Information on a Tiny IPS Display**
  The 0.96-inch 80 × 160 IPS display is designed for essential information such as battery status, Bluetooth connection, sensor readings, icons, counters, and simple menus. It gives compact projects a clear visual interface while keeping the overall device small.

- **Sound, Motion, and Physical Controls**
  The onboard PDM microphone can capture sound levels and audio data, while the 6-axis IMU detects orientation, shaking, flipping, and motion. Two physical buttons provide simple and reliable user control, allowing the board to work as more than a passive display.

- **Built for Compact BLE Wearables and Battery-Powered Ideas**
  Powered by XIAO nRF52840 Plus, this version is well suited to Bluetooth Low Energy projects that need to remain compact and portable. Use it to build a smart badge, wearable notifier, compact BLE terminal, motion controller, digital pet, or miniature status display that connects to a phone, computer, or gateway.

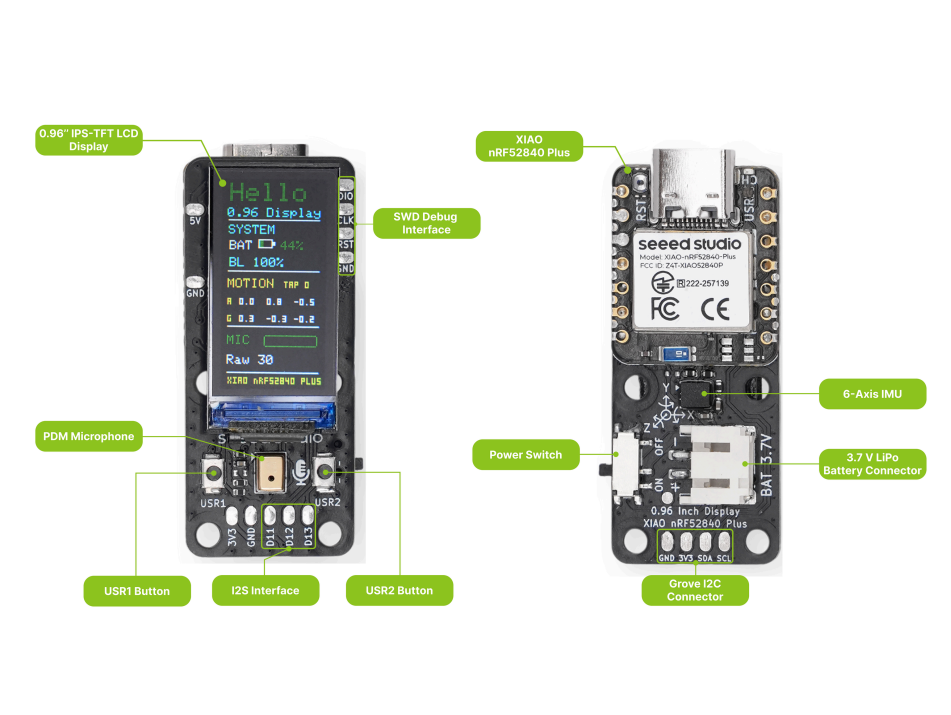
Product Gallery

Specification

Specification	XIAO 1.47" IPS Touch Display(nRF52840)	XIAO 1.14" IPS Display(nRF52840)	XIAO 0.96" IPS Display(nRF52840)

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**
- **Wearable Notifier**
- **Compact BLE Status Display**
- **Motion-Based Controller**
- **Digital Pet and Interactive Toy**
- **Miniature Sensor Display**

Part List

XIAO 0.96' IPS Display(nRF52840)	×1

Compliance & Logistics

HSCODE	8517629990
USHSCODE	8517620010
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/0-96-Inch-Display-Powered-by-XIAO-nRF52840-Plus-p-6992.html
- Wiki-XIAO 0.96'' IPS Display(nRF52840) Resources
- 3D-Printed Enclosure for XIAO 0.96" Display — Designed by Gokul

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