seeed studio

INDUSTRIAL PRODUCT DATASHEET

XIAO 1.14" IPS Display(ESP32-S3)

A compact XIAO ESP32-S3 Plus based display board with a 1.14-inch IPS screen, physical controls, microphone, motion sensor, Grove expansion, Wi-Fi, and Bluetooth for connected interactive projects.

SKU	UPDATED	PRICE
100086099	2026-09-28 01:04:20	$16.90(Excl. VAT)



Overview



The XIAO 1.14'' IPS Display (ESP32-S3) combines a 1.14-inch 135×240 IPS display, three physical buttons, PDM microphone, 6-axis IMU, and Grove I2C expansion in a compact board powered by XIAO ESP32-S3 Plus with Wi-Fi, Bluetooth LE, 8 MB PSRAM, and 16 MB Flash. It is designed for compact connected devices such as dashboards, sensor terminals, smart home controls, motion-based interactions, desktop gadgets, and portable HMIs.

Key Features

- **A Mini Smart Device Board for Connected Projects**
  If you want to build a compact connected device, you usually need a display, buttons, sensors, audio input, battery support, and wireless connectivity. This board brings these key parts together with XIAO ESP32-S3 Plus, so you can focus on the interface, sensor data, interaction, and connectivity instead of starting with multiple modules and wires.
- **Clear 1.14-Inch Display with Physical Controls**
  The 1.14-inch 135 × 240 IPS display gives you enough space for sensor readings, status pages, icons, menus, dashboards, and lightweight animations. Three physical user buttons provide simple and reliable control without requiring a touch screen, making it a good fit for handheld devices, controllers, and compact interfaces.
- **Voice, Motion, and Grove Expansion in One Small Board**
  This board does more than show information. The PDM microphone can be used for sound detection, audio capture, and voice-related interaction, while the 6-axis IMU detects orientation, shaking, flipping, and motion. The onboard Grove I2C interface also makes it easy to add environmental, distance, light, and other compatible sensors without complex wiring.
- **Built for Wi-Fi, Bluetooth, and Richer Connected Interfaces**
  Powered by XIAO ESP32-S3 Plus, this version combines a dual-core processor running at up to 240 MHz with Wi-Fi, Bluetooth Low Energy, 8 MB PSRAM, and 16 MB Flash. It is a good fit for connected dashboards, smart home controls, wireless sensor terminals, desktop gadgets, and other projects that need more processing and memory headroom for graphics and connectivity.

Product Gallery

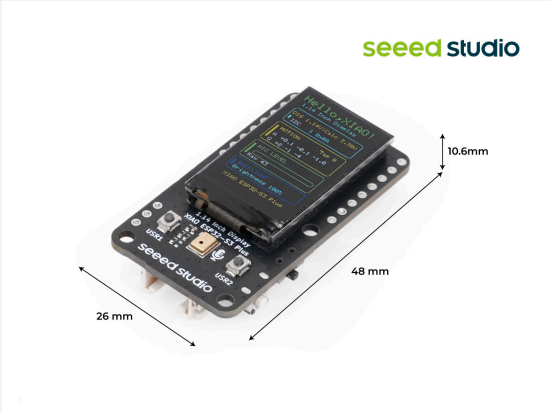










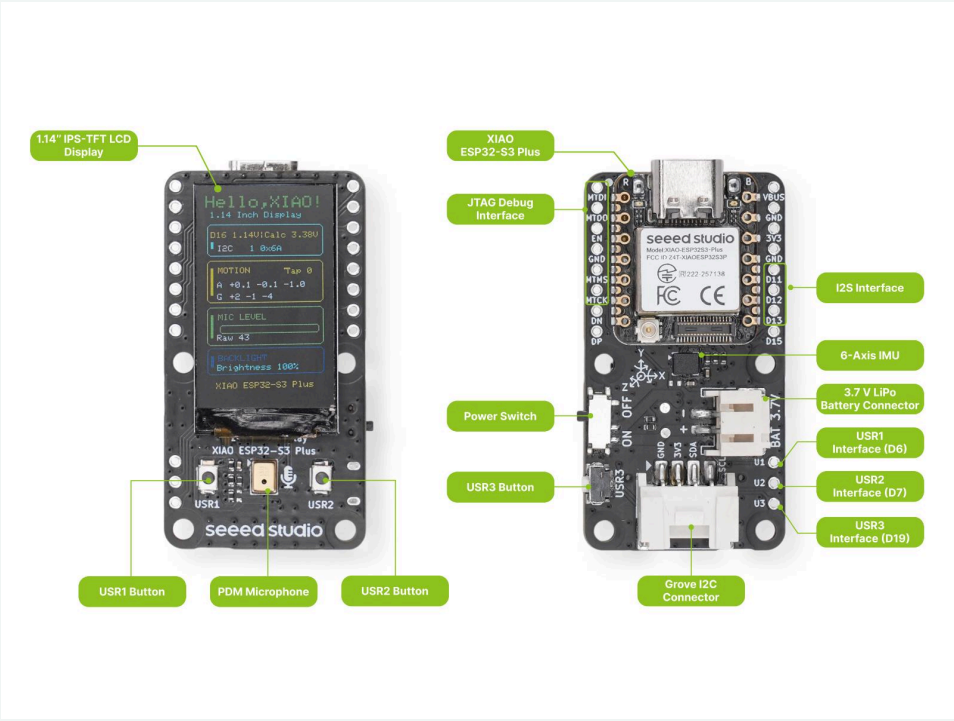


Specification

Specification	XIAO 1.47" IPS Display(ESP32-S3)	XIAO 1.14" IPS Display(ESP32-S3)	XIAO 0.96" IPS Display(ESP32-S3)

Positioning	Touch & Full Interaction	Sensing & Expansion	Ultra-Compact
Core Controller	Seeed Studio XIAO ESP32-S3 Plus		
Processor	ESP32-S3R8, Dual-Core, up to 240 MHz		
Memory	8 MB PSRAM + 16 MB Flash		
Wireless	2.4 GHz Wi-Fi + BLE 5.0		
Display	1.47" IPS TFT	1.14" IPS TFT	0.96" IPS TFT
Resolution	172 × 320	135 × 240	80 × 160
Display Driver	JD9853A	ST7789	ST7789
Touch	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, 3.7 V LiPo		
Battery Monitoring	Battery voltage monitoring via D16 ADC; battery level can be estimated from the measured voltage. Battery status detection is not supported.		
Expansion Interfaces	1x I2C Interface 1x I2S Interface 1x JTAG Interface 2x User Button Interface	1x I2C Interface 1x I2S Interface 1x JTAG Interface 3x User Button Interface	1x I2C Interface 1x I2S Interface 1x JTAG 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 & data logging	Sensor dashboards, Grove projects, physical controllers	Tiny IoT devices, wearables, status displays

Hardware Overview



Applications

- **Connected Sensor Dashboard**
- **Grove Sensor Terminal**
- **Smart Home Controller**
- **Motion-Based Interaction Device**
- **Desktop Gadget and Digital Pet**
- **Portable HMI**

Part List

XIAO 1.14'' IPS Display(ESP32-S3)	×1
2.4GHz FPC Antenna A-02 for XIAO ESP32-S3	×1

Compliance & Logistics

HSCODE	8517629990
USHSCODE	8517620010
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/1-14-Inch-Display-Powered-by-XIAO-ESP32-S3-Plus-p-6991.html
- Wiki-XIAO 1.14" IPS Display(ESP32-S3) Resources
- 3D-Printed Enclosure for XIAO 1.14" Display — Designed by Gokul

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