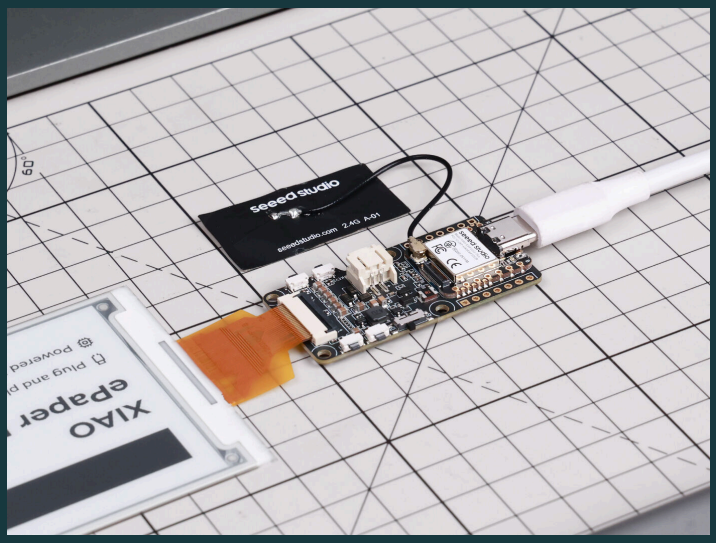
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INDUSTRIAL PRODUCT DATASHEET

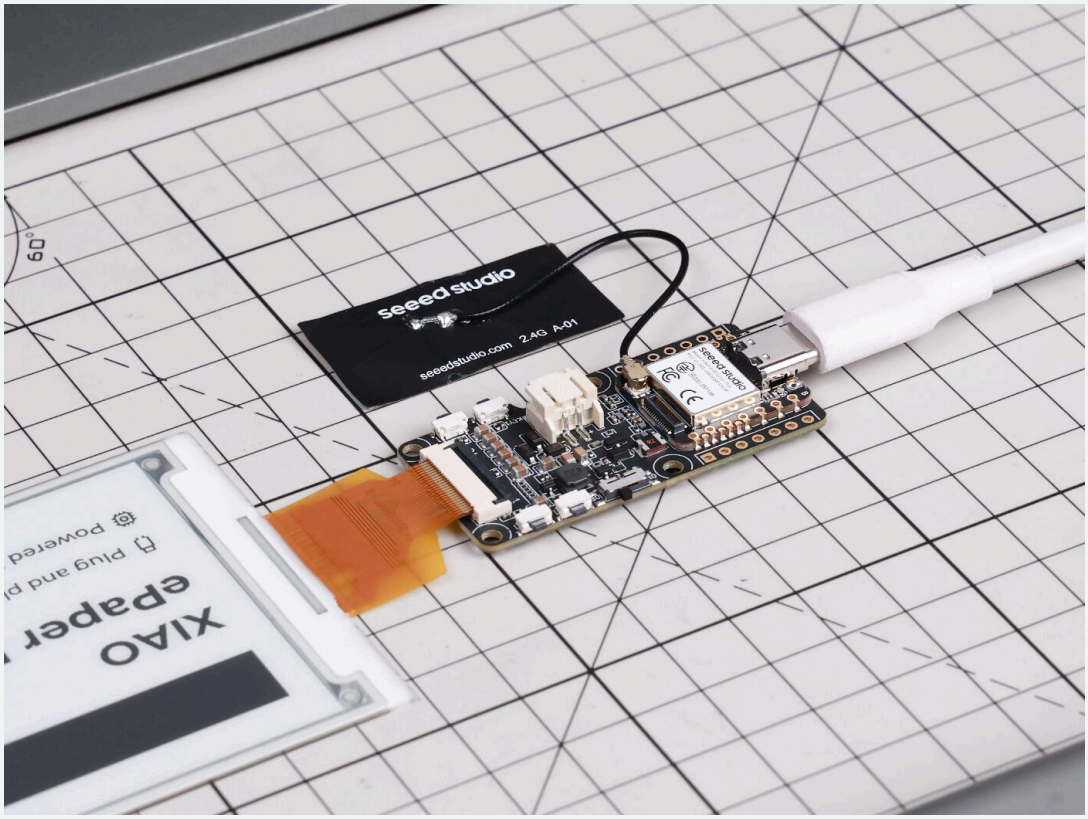
# XIAO ePaper Display Board(ESP32-S3) - EE05

XIAO ePaper Display Board (ESP32-S3) - EE05: A versatile ePaper display board powered by XIAO ESP32-S3 Plus with no-code UI design via SenseCraft HMI.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 100057220 | 2026-10-16 10:53:25 | $9.90(Excl. VAT) |



# Overview



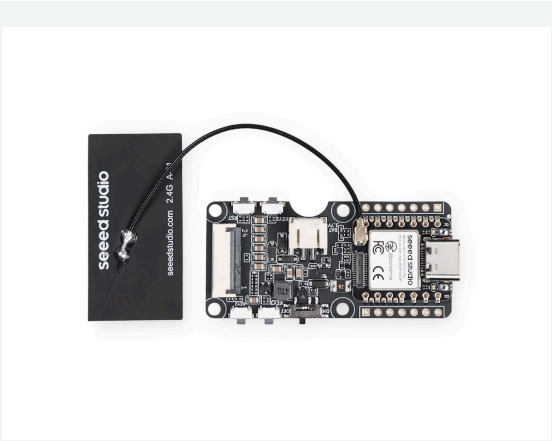

The XIAO ePaper Display Board (ESP32-S3) - EE05 is powered by the XIAO ESP32-S3 Plus and supports a wide range of 24-pin ePaper displays with an extension IO port and BAT connector with switch. It enables no-code UI design and deployment via SenseCraft HMI for applications such as smart home dashboards, energy monitoring, security alerts, and digital photo frames.

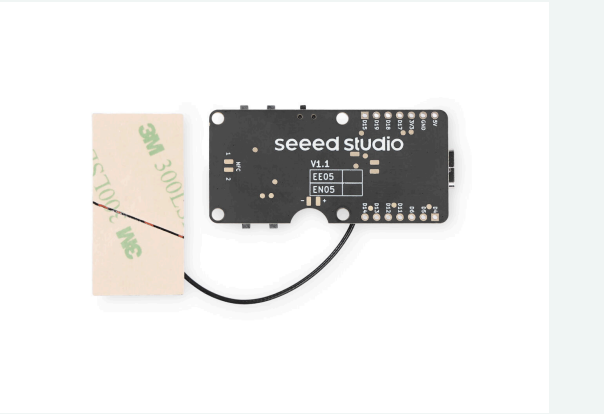
# Key Features

- **Powered by XIAO ESP32-S3 Plus:** Works immediately when connected to a compatible ePaper display.
- **Versatile Display Support:** Compatible with a wide range of 24-pin ePaper displays, supporting 24-Pin epaper displays for various project requirements.
- **Extension IO Port:** Enables connection of additional sensors, such as temperature and humidity sensors, for enhanced functionality.
- **BAT Connector with Switch:** Provides simple battery connection and integrates a switch, enabling efficient power management and energy savings.
- **No-Code UI Design & Deployment with SenseCraft HMI:** Design and deploy personalized dashboards effortlessly with **SenseCraft HMI**, our new AI-powered no-code platform. Create your UI through simple drag-and-drop elements, choose from our rich templates, or let AI help you. Connect real-time data from web APIs, then deploy your finished dashboard to epaper display with just a few clicks. From design to data configuration to deployment, everything happens seamlessly on one single platform.

# Product Gallery



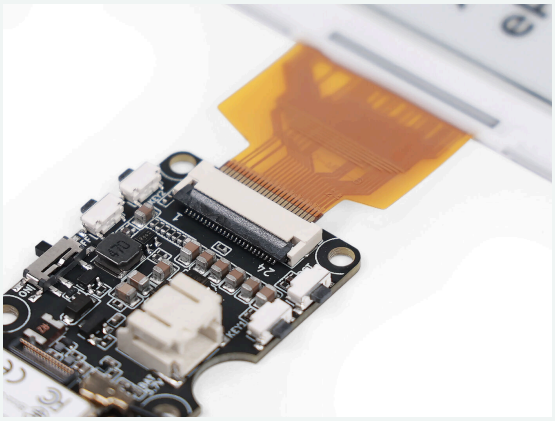










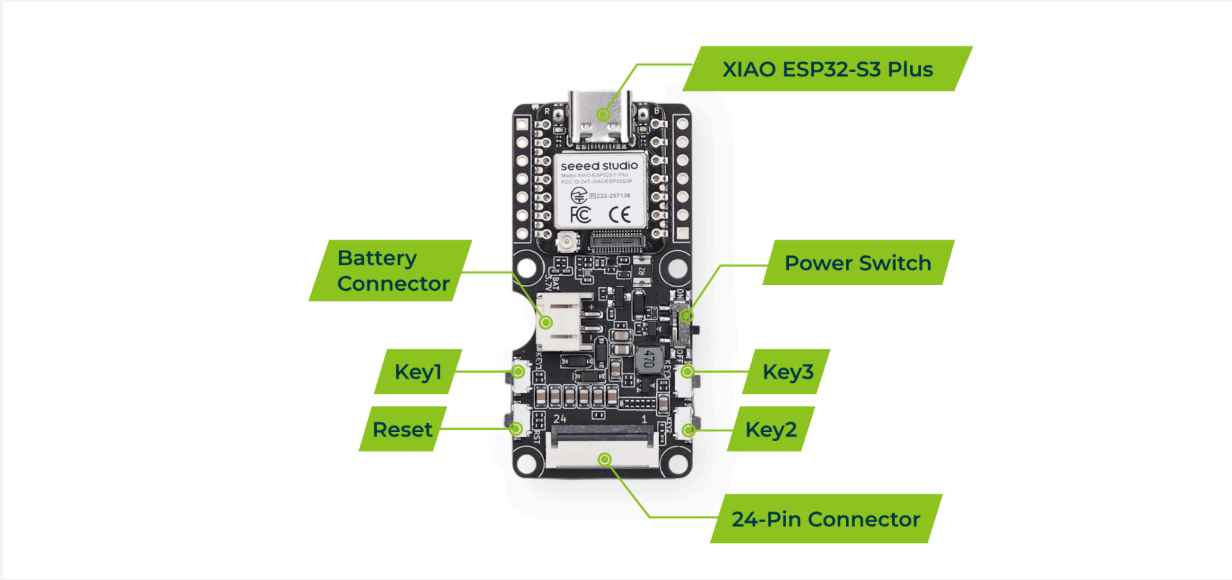






## Specification

| Parameter | Description |
|---|---|
| Processor | XIAO ESP32-S3 Plus |
| ePaper Connector | FPC 24 Pin 0.5mm |
| Battery Connector | JST 2.0mm |
| Switch | Battery Power ON/OFF |
| Power Supply | - 3.7V Li-Battery<br>- USB Type-C |
| Button | -1x Reset button<br>-3x User button |
| Software | Support SenseCraft HMI(SenseCraft HMI) |
| | Support Arduino/PlatformIO development platform |

# Hardware Overview



# Applications

- **Smart Home Dashboard:** Display real-time information such as weather updates, calendar events, and notifications from various smart home devices.
- **Energy Monitoring:** Show energy consumption data from smart meters, helping homeowners track and manage their energy usage more efficiently.
- **Security Alerts:** Display alerts and notifications about security events, such as motion detection or door/window sensor activation.
- **Digital Photo Frame:** Create a WiFi-enabled digital photo frame that can display images from your smart home network.

| Product | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Processor | XIAOESP32-S3 Plus | XIAOnRF52840 Plus | XIAOESP32-S3 Plus | XIAOnRF52840 Plus | XIAO ESP32-S3 Plus | XIAO ESP32-S3 Plus | N/A(Compatible with XIAO Series) | |
| Compatible Displays | 24 Pin ePaper | 24 Pin ePaper50 Pin ePaper | | | 24 Pin ePaper | | | |
| Battery Connector | JST 2.0mm | JST 2.0mm | JST 2.0mm | JST 2.0mm | JST 2.0mm | / | | |
| Battery Power ON/OFF | √ | √ | √ | √ | √ | / | | |
| Button | 1x Reset,3x User | 1x Reset,3x User | 1x Reset3x User | 1x Reset3x User | / | | | |
| Extension IO Port | √ | / | / | / | √ | | | |
| SenseCraft HMI | √ | / | √ | / | √ | √ | / | |

| Product | Name | Resolution | Display Color | Partial Refresh | SenseCraft HMI |
|---|---|---|---|---|---|
| | | 200x200 | | √ | √ |
| | | 250x122 | | √ | √ |
| | | 250×122 | | | √ |
| | | 212x104 | | √ | |
| | | 296x128 | | | |
| | | 296x128 | | √ | √ |
| | | 296x128 | | | √ |
| | | 400x300 | | √ | |
| | | 800x480 | | | √ |
| | | 648x480 | | √ | |
| | | 800x480 | | | √ |
| | | 800x480 | | √ | √ |
| | | 1404×1872 | | √ | √ |
| | | 1600x1200 | | | √ |

## Part List

| | |
|---|---|
| XIAO ePaper Display Board EE05 | ×1 |
| 24Pin Adapter and 24Pin FFC Extension Cable | ×1 |
| 2.4GHz FPC Antenna (2.9dBi) | ×1 |

## Compliance & Logistics

| | |
|---|---|
| HSCODE | 8543909000 |
| USHSCODE | 8543903500 |
| UPC | |
| EUHSCODE | 8471707000 |
| COO | CHINA |

# Resource Links

- https://www.seeedstudio.com/XIAO-ePaper-Display-Board-EE05-p-6755.html
- Wiki-XIAO ePaper Display Board EE05 Resources

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