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INDUSTRIAL PRODUCT DATASHEET

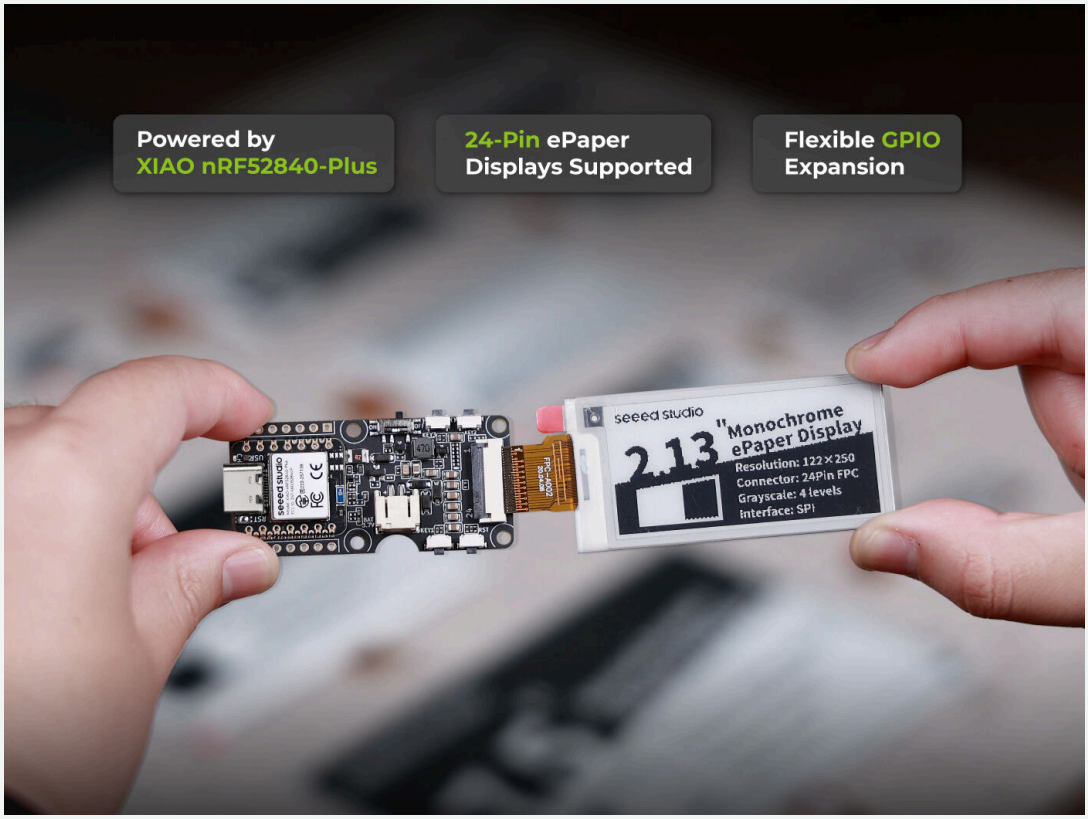
XIAO ePaper DIY Kit(nRF52840) - EN05

XIAO ePaper DIY Kit(nRF52840) - EN05: a flexible ePaper platform with NFC, sensor expansion, and multi-platform support for smart home and IoT applications.

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Overview

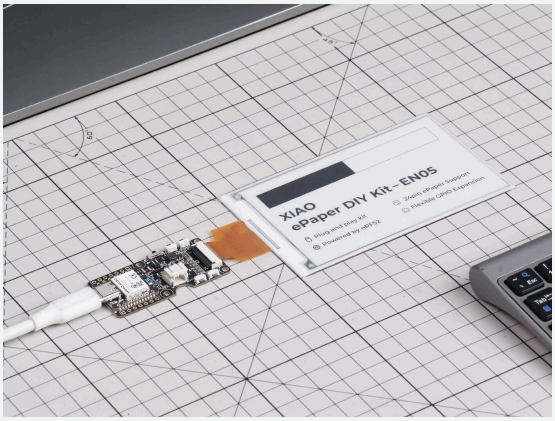


The XIAO ePaper DIY Kit(nRF52840) - EN05 is powered by the XIAO nRF52840 Plus with onboard NFC, versatile 24-pin ePaper display support, and an extension IO port for sensors. It enables smart home dashboards, energy monitoring, security alerts, and digital photo frames, with compatibility across Arduino, PlatformIO, and ESPHome.

Key Features

- **Powered by XIAO nRF52840 Plus：** Works immediately when connected to a compatible ePaper display, with onboard NFC interface for tap-to-configure, pairing, or triggering content updates.
- **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.
- **Compatible with Various Software Platforms:** Whether you prefer coding with Arduino, Platform IO, ESPHome and more, this driver board both approaches, providing maximum flexibility for your projects.

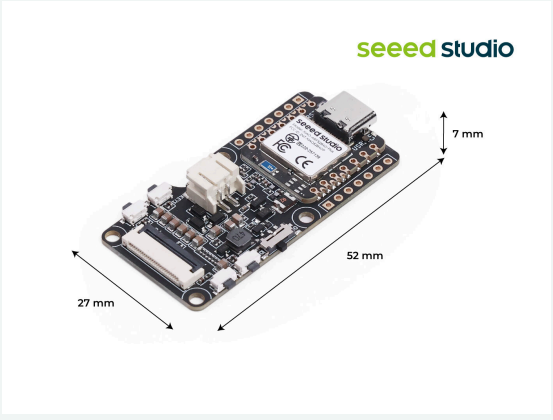
Product Gallery









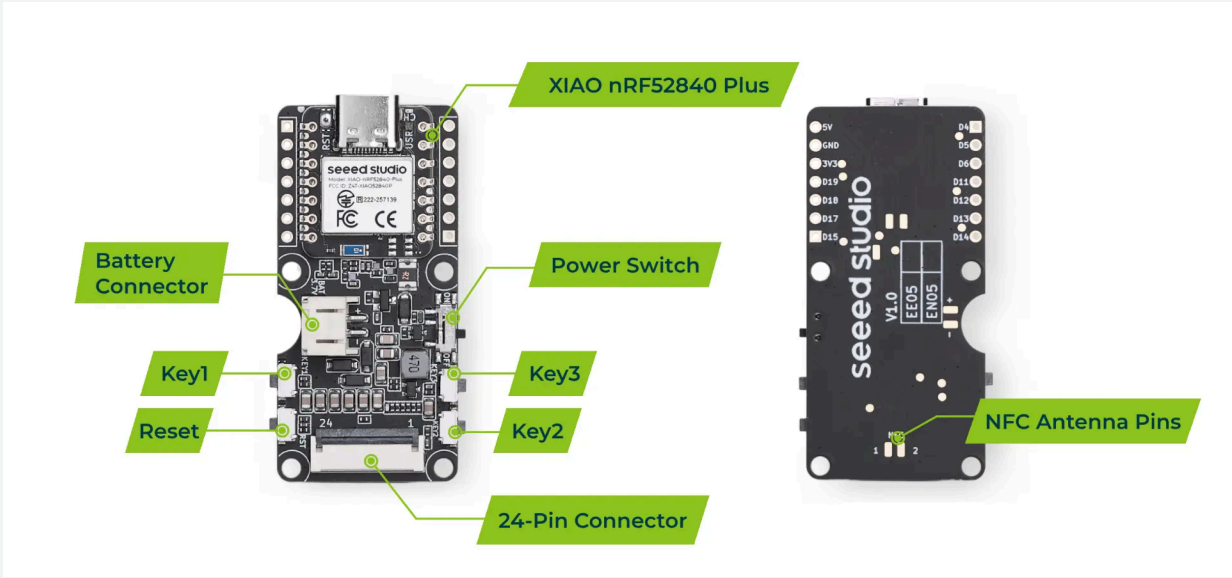


Specification

Parameter	Description
Processor	XIAO nRF52840 Plus
ePaper Connector	FPC 24 Pin 0.5mm

Parameter	Description
Battery Connector	JST 2.0mm
Switch	Battery Power ON/OFF
Power Supply	- 3.7V Li-Battery - USB Type-C
Button	-1x Reset button -3x User button
Software	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	Name	Resolution	Display Color	Partial Refresh	SenseCraft HMI
		200x200		√	√
		250x122		√	√
		250×122			√
		212x104		√	
		296x128			
		296x128		√	√
		296x128			√
		400x300		√	
		800x480			√
		648x480		√	
		800x480		√	
		800x480		√	√
		1404×1872		√	√
		1600x1200			√

Resource Links

- https://www.seeedstudio.com/XIAO-ePaper-DIY-Kit-nRF52840-EN05.html
- Wiki-XIAO ePaper Display Board EN05 Resources

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