

INDUSTRIAL PRODUCT DATASHEET

7.5" Monochrome eInk / ePaper Display with 800x480 Pixels, SPI interface, Support XIAO/Arduino

7.5-inch monochrome ePaper display with 800x480 resolution, SPI interface, and easy integration with XIAO/Arduino for ultra-low power applications.

SKU

104990861

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PRICE

\$35.00(Excl. VAT)



Overview



This 7.5" monochrome ePaper display provides 800x480 pixel resolution with SPI interface, natively compatible with XIAO ePaper Driver Boards (EE04/EE05) for plug-and-play Arduino/XIAO prototyping. Its reflective, eye-friendly screen and ultra-low power consumption make it ideal for reading equipment, electronic shelf labels, and smart wearables, with seamless UI design using the SenseCraft HMI platform.

Key Features

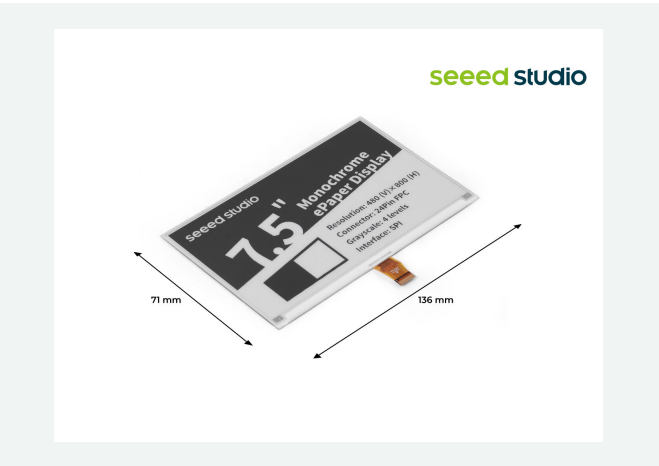
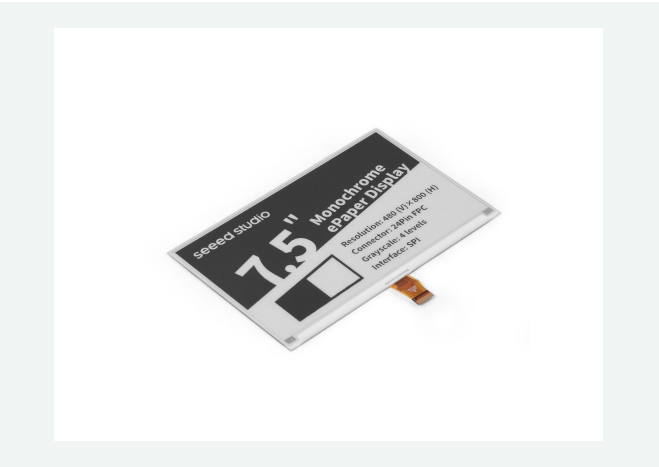
- **Plug & Play with XIAO ePaper Driver Boards:** Natively compatible with a range of 24-pin ePaper displays via the [ePaper Display Board](#), these ready-to-use controller boards offer features such as an optional battery connector and a user button to accelerate prototyping and project development.
- **Exceptional Readability:** The display's reflective properties ensure effortless legibility of text and images in different lighting environments.
- **Ultra-Low Power Consumption:** The ePaper consumes power only during updates, resulting in longer battery life and greater energy efficiency.
- **Eye-Friendly and Heat-free:** Eliminate glare, providing a comfortable viewing experience while remaining cool without generating heat.

Seamless Setup and Customization for Your ePaper Display

This ePaper display is designed to work seamlessly with any standard 40-pin driver board. We recommend the [XIAO ePaper Display Board EE04](#) or [XIAO ePaper Display Board EE05](#).

To make things even easier, we're introducing [SenseCraft HMI](#)—a no-code, AI-powered platform that allows you to quickly design and customize your user interface. Drag and drop elements, choose templates, or let AI generate the perfect layout for you. Get started today and create your ideal display experience with ease!

Product Gallery

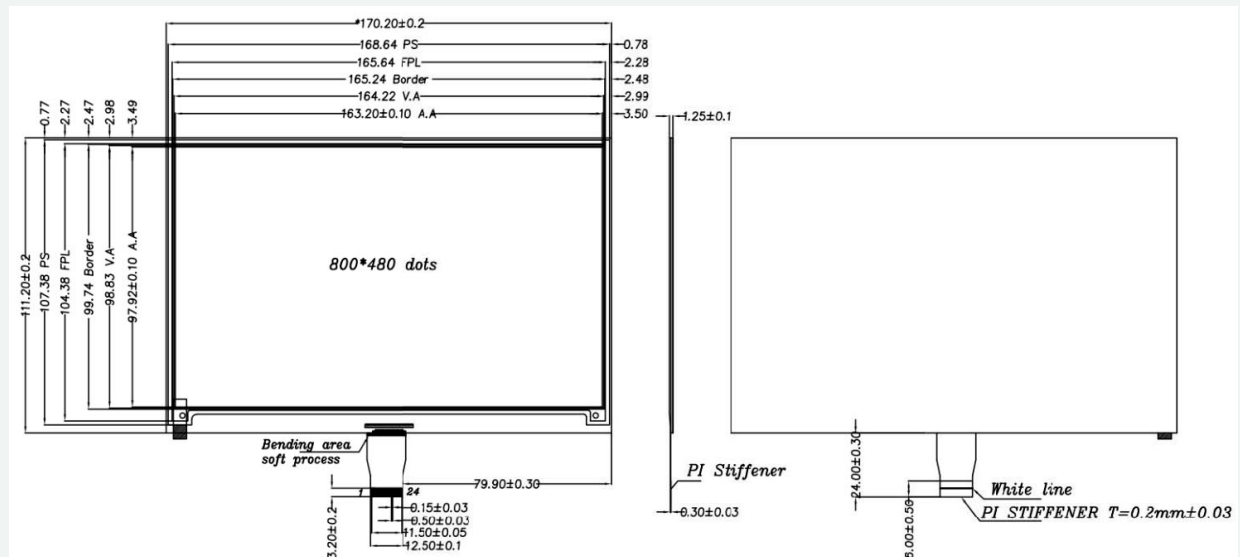


Specification

Parameters	Details
Driver IC	UC8179
Type	Dot Matrix

Size	7.5 inch
Active Area(mm)	163.2 x 97.72
Resolution	800 x 480 pixels
Pixel Pitch(mm)	0.204 x 0.204
Display Color	Black, White
Max Grayscale	4
Interface	SPI
Connector	24 Pin FPC, 0.5mm Pitch
Viewing Angle	>170°
Operating Voltage	3.3V
Operating Temperature	0-50°C
Driver Mode	Support XIAO/Arduino/Micropython
Drawing	Support GUI Drawing
Power Consumption	26.4mW (typ.)
Standby Consumption	0.0165mW
Outline Dimension(mm)	170.2 x 111.2 x1.25
Weight(g)	3.2

Hardware Overview



Applications

- Reading equipment
- Mobile device
- Electronic tags and price tags
- Smart Wearables
- Electronic Shelf Labels
- Smart Card

Product						
Processor	XIAOESP32-S3 Plus	XIAOnRF52840 Plus	XIAOESP32-S3 Plus	XIAOnRF52840 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	/		
Battery Power ON/OFF	√	√	√	/		
Button	1x Reset,3x User	1x Reset,3x 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			√

Compliance & Logistics

HSCODE	8517180050
USHSCODE	8517180050
UPC	
EUHSCODE	8471707000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/7-5-Monochrome-ePaper-Display-with-800x480-Pixels-p-5788.html>
- [7.5-inch Monochrome ePaper Display Datasheet](#)
- [PCN-ePaper Display Series Upgrade v1.0.pdf](#)

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