seeed studio

INDUSTRIAL PRODUCT DATASHEET

5.83" Monochrome eInk / ePaper Display with 648x480 Pixels, SPI interface, Support XIAO/Arduino

The 5.83 inch E-paper Display offers a high-quality, low-power solution for a wide range of applications.

SKU	UPDATED	PRICE
104990858	2026-11-11 09:46:35	$45.00(Excl. VAT)



Overview



The 5.83 inch E-paper Display offers a high-quality, low-power solution for a wide range of applications. The model features a 648x480 resolution, black and white display with a diagonal size of 5.83 inches. With a fast refresh rate and excellent contrast, this display is ideal for e-readers, smart wearables, and other portable devices.

Key Features

01 **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.

02 **Exceptional Readability**

The display's reflective properties ensure effortless legibility of text and images in different lighting environments.

03 **Ultra-Low Power Consumption**

The ePaper consumes power only during updates, resulting in longer battery life and greater energy efficiency.

04 **Eye-Friendly and Heat-free**

Eliminate glare, providing a comfortable viewing experience while remaining cool without generating heat.

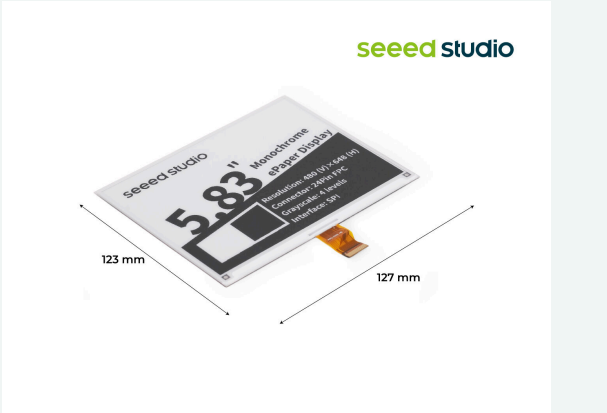
Product Gallery



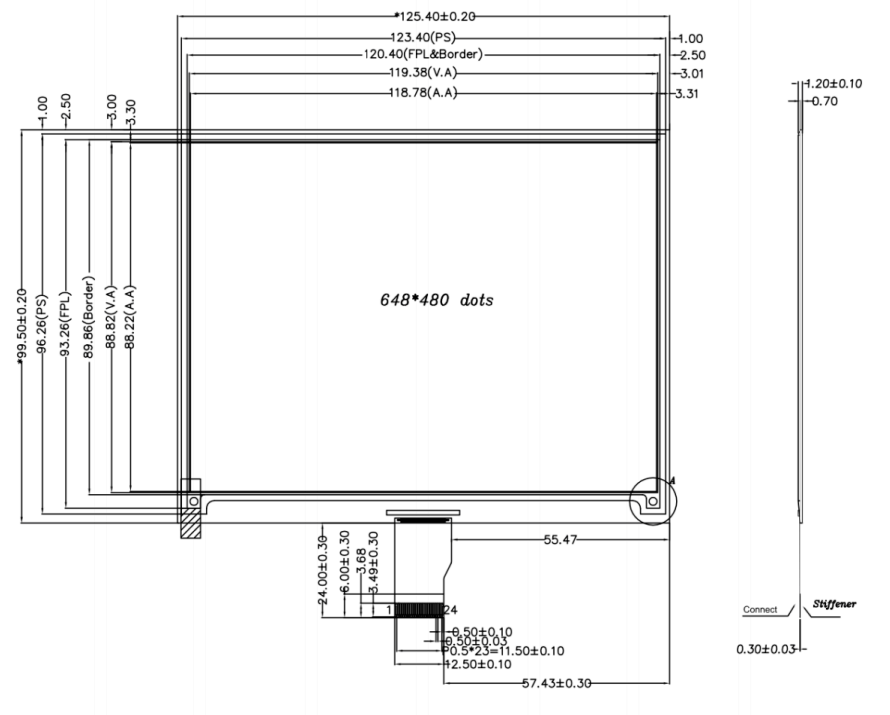








Hardware Overview



Applications

- **Reading equipment**
- **Mobile device**
- **Electronic tags and price tags**
- **Smart Wearables**
- **Electronic Shelf Labels**
- **Smart Card**
- **Supported ePaper Display Board**
- **ePaper Display Board EE05**
- **ePaper Display Board EN05**
- **ePaper Display Board EE04**
- **ePaper Display Board EN04**
- **ePaper Driver Board**

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			√

Resource Links

- https://www.seeedstudio.com/5-83-Monochrome-ePaper-Display-with-648x480-Pixels-p-5785.html
- 5.83-inch Monochrome ePaper Display Datasheet

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