DIE02213S

2.13inch 122*250 E-paper Display Black/White E-Ink Display with SPI Communication



Description

This 2.13-inch electronic paper screen has a resolution of 122*250, and uses classic black and white to restore a paper-like reading experience. The combination of high contrast and high reflectivity, supplemented by hard-coated anti-glare technology, enables it to present outstanding visual effects in different lighting environments. The ultra-wide viewing angle design allows you to enjoy the same wonderful picture from any angle. Thanks to its ultra-low power consumption characteristics, this display does not require a backlight, and

the picture content is persistent and stable. It can be fully retained even if the power is off, and it only consumes power when refreshing.

This electronic paper display, supported by advanced active matrix electrophoretic display technology, works in pure reflection mode, bringing a comfortable reading experience close to paper. It is not only suitable for application scenarios such as shelf labels, price tags, badges, smart labels and smart homes, but also an ideal choice for e-readers, smart wearable devices and other portable devices.

Feature

2.13-inch electronic ink screen, 122*250 resolution, black and white, using SPI interface communication;

Even if the power is off, the content is still clearly visible, no need to worry about data loss;

Hard-coated anti-glare display surface, not afraid of direct sunlight, outdoor reading is also clear and comfortable;

High contrast and high reflectivity, can provide more excellent visual performance;

Ultra-low current deep sleep mode, basically only need to refresh the power supply, greatly reduce power consumption, achieve ultra-long battery life;

Full-viewing angle display, clear and visible at any angle;

Pure reflection mode, no backlight required, content can be clearly presented only by natural light reflection.

Application Examples



Retail



Supermarket



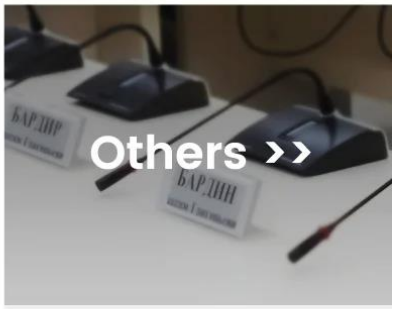
Consumer Electronics



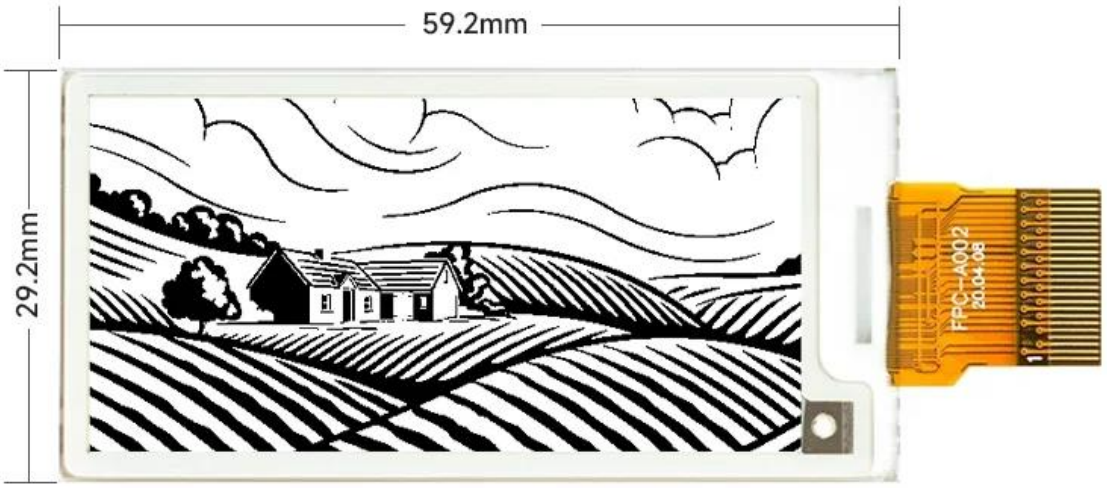
Pharmacy

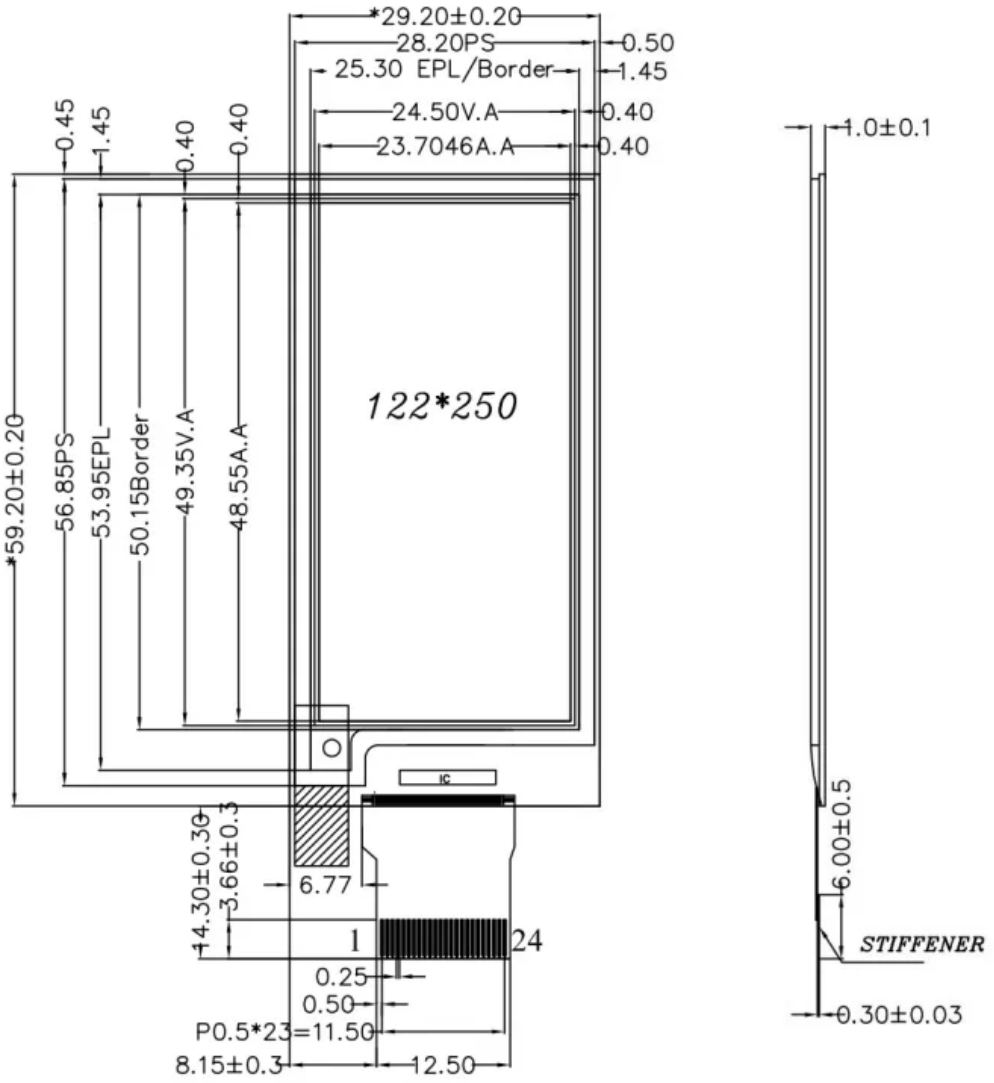


Weather Display



Others >>


59.2mm
29.2mm
FPC-A002
20.04.08


*29.20±0.20
28.20PS
25.30 EPL/Border
24.50V.A
23.7046A.A
0.50
1.45
0.40
0.40
0.45
1.45
0.40
0.40
122*250
*59.20±0.20
56.85PS
53.95EPL
50.15Border
49.35V.A
48.55A.A
IC
14.30±0.30
3.66±0.3
6.77
1
24
0.25
0.50
P0.5*23=11.50
8.15±0.3
12.50
1.0±0.1
6.00±0.5
STIFFENER
0.30±0.03

Interface definition

Pin	Symbol	Pin	Symbol
1	NC	13	SCL
2	GDR	14	SDA
3	RESE	15	VDDIO
4	NC	16	VCI
5	VSH2	17	VSS
6	TSCL	18	VDD
7	TSDA	19	VPP
8	BS1	20	VSH1
9	BUSY	21	VGH
10	RST	22	VSL
11	D/C#	23	VGL
12	CS#	24	VCOM

Specification

Size	2.13 inch
Material	Active Matrix Electroph oretic Display (AM EPD)
Driver Chip	SSD1680Z, JD79661
Resolution	122(H)*250(V) Pixel
Pixel pitch	0.1943*0.1942
Viewing Angle	Full Viewing Angle
Interface Type	3-/4-wire SPI
Display Color	Black and white
Refresh Mode	Partial refresh (saves more power)
Connect Method	24Pin 0.5mm Pitch pluggable connector
Operation Voltage	2.2~3.7V
Operation Temperature	-0~40℃
Storage Temperature	-25~70℃

Active Area	23.7046(H)*48.55(L)(H*L)
Panel Size	29.2(H)*59.2(V)*1.0(D)(mm)