

SP-EINK Datasheet

v1.0



Features:

- Connect to the screen through the SP-MOD SPI interface
- E-paper display module: GDEW0154M09 is a 1.54" E-paper display, with SPI interface, and has 24P FPC(0.5mm pitch).
- Support 1 bit Black/Write full display capabilities
- Display Resolution: 200x200
- Size :35*30mm
- Connection method: SP-MOD (2*4P 2.54mm pin header)

UPDATE

V1.0	2019/4/7 Published original document

INTRODUCTION

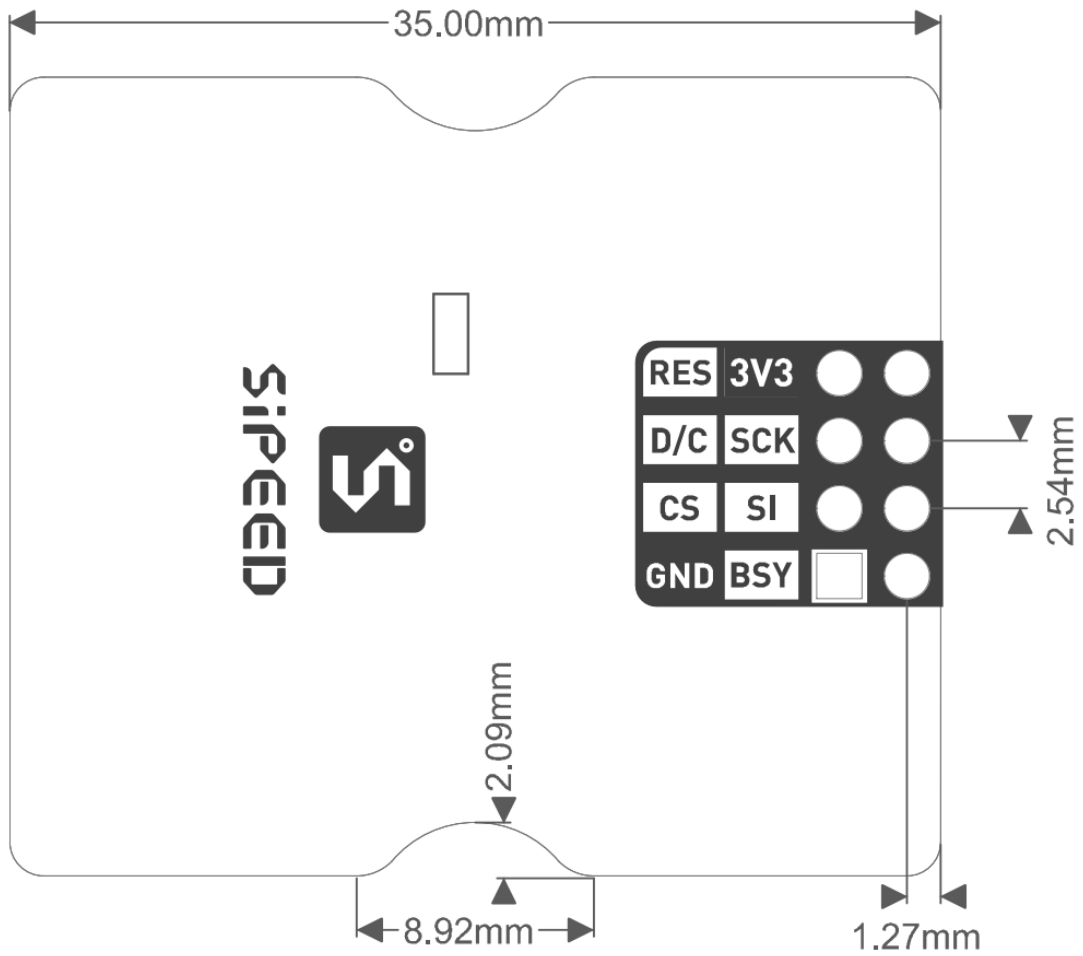
E-paper display: GDEW0154M09	<p>Supply voltage of external power supply: 2.3V~3.6V</p> <p>Supply current of external power supply: 1-3mA</p> <p>Sleep Status of Current: <5uA</p> <p>Screen Size: 1.54 inch</p> <p>Active Area: 27.6mm * 27.6mm</p> <p>Display Resolution: 200*200</p> <p>Color: 1 bit Black/Write full display capabilities</p> <p>Interface: 24P FPC (0.5mm pitch)</p> <p>An integrated circuit contains gate buffer, source buffer, interface, timing control logic, oscillator,DC-DC, SRAM, LUT, VCOM, and border are supplied with each panel.</p>
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HARDWARE FEATURES

Supply voltage of external power supply	2.3~3.6V
Supply current of external power supply	<3mA
Temperature rise	<30K
Range of working temperature	-40°C ~ 85°C

SIZE

Board Length	35mm
Board Width	30mm
Height	3.8 mm (Excluding the height of pin header :8.7mm)
Screen Length	37.2±0.2mm
Screen Width	31.8±0.2mm
FPC Length	14.3±0.2mm



PIN DESCRIPTION		
1	GND	Ground
2	CS	Chip Select input pin
3	D/C	Chip Select input pin
4	RES	Data/Command control pin
5	3V3	Reset (active low)
6	SCK	Power supply (3.3V)
7	SI	SPI clock pin
8	BSY	Master Out Slave In

RESOURCES	
Official Website	www.sipeed.com
Github	https://github.com/sipeed
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
Sipeed Model Store	https://maixhub.com/
SDK Reference	dl.sipeed.com/MAIX/SDK
HDK Reference	dl.sipeed.com/MAIX/HDK
E-mail(Technical Support)	support@sipeed.com
Telgram Link	https://t.me/sipeed
QQ Group	878189804



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