

AC057TC1

5.65" Print-Color ePaper (E Ink)



[AC057TC1](#), also known as AB1024-EGA, is a reflective electrophoretic E Ink® technology display module on an active matrix TFT substrate. The panel is capable of displaying 7-colors images depending on the associated lookup table used. The color filter is printed on the E Ink ePaper film and shows better performance as the previous versions with glass based color filter array. To achieve the best image quality it is important to process the bitmap before loading onto screen. The common SPI interface gives an advantage to integrate the EPD quick and easy. The significant feature is the narrow operating temperature range.

Otherwise the circuitry on the panel includes an integrated gate and source driver, timing controller, oscillator, DC-DC boost circuit, and memory to store the frame buffer and lookup tables, and additional circuitry to control VCOM and BORDER settings.

FEATURES

- High contrast TFT electrophoretic
- Ultra wide viewing angle
- Ultra low power consumption
- Pure reflective mode
- Bi-stable
- Low current sleep mode
- On chip display RAM
- External SPI flash/EEPROM for waveform
- On-chip oscillator
- On-chip booster and regulator control for generating
- Vcom, Gate and Source driving voltage
- I2C Signal Master Interface to read external temperature sensor



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MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS	UNIT	REMARK
SCREEN SIZE	5.65	inch	
DISPLAY RESOLUTION	600(H) x 488(V)	pixel	DPI: 132
ACTIVE AREA	114.9(H) x 85.8(V)	mm	
PIXEL PITCH	191.5(H) x 191.5 (V)	um	
PIXEL CONFIGURATION	Square		
OUTLINE DIMENSION	125.4(H) x 99.5(V) x 0.91(D)	mm	Without protective film
NUMBER OF COLORS	Black, White, Red, Yellow, Blue, Green and Orange		
INTERFACE	Serial Peripheral Interface (SPI)		
OPERATING TEMP. RANGE	+15 .. +35	°C	
STORAGE TEMPERATURE	-25 .. +60	°C	

