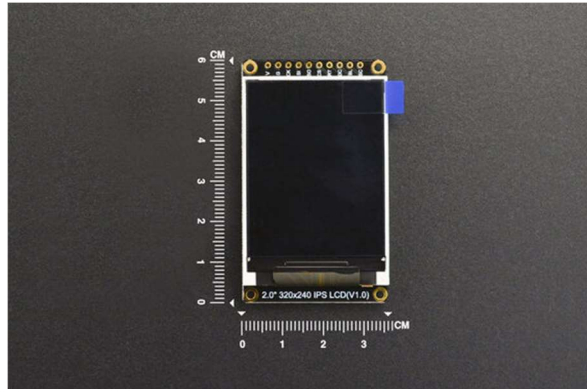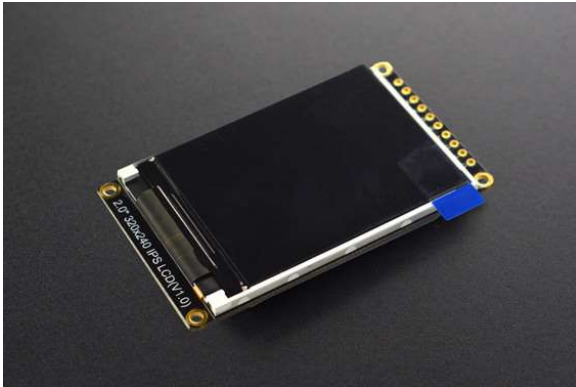# Fermion: 2.0"" 320x240 IPS TFT LCD Display with MicroSD Card (Breakout)

SKU:DFR0664

INTRODUCTION

This 2.0" LCD display adopts ST7789V driver chip and has 320*240 color pixels (RGB565), performing excellently in the angle of view (80/80/80/80). It supports SPI(4-wire) communication mode and GDI port (work with main-controllers with GDI), plug, and play. The module can be powered by 3.3V~5V, compatible with multiple main-controllers like Arduino UNO, Leonardo, ESP32, ESP8266, FireBeetle M0, and so on. Use the GDI interface to work with M0, which could effectively reduce wiring steps. Besides, there is an onboard MicroSD card slot for displaying more pictures.

The module has the advantages of high resolution, wide viewing angle, and simple wiring, and can be used in many display applications: waveform monitor display, electronic gift box, electronic weather decorations, etc.

NOTE: MicroSD Card is not included.

FEATURES

- Wide-angle of view
- High resolution
- GDI interface: plug and play
- Onboard MicroSD card slot

APPLICATIONS

- Waveform monitor display
- Electronic gift box
- Electronic weather decorations
- Alarm clock display

SPECIFICATION

- Operating Voltage: 3.3V-5.5V
- Color Depth: 16-bit (RGB565)
- Pixels: 240 x 320
- Communication: SPI
- Brightness(cd/m2): 250 (TYP) cd/m2
- Full-screen Consumption: about 29mA (3.3V)/ 29mA (5V)(Typ)
- Operating Temperature: -30℃~+70℃
- Display Dimension: 1.20 x1.61inch / 30.6 x 40.8 mm
- Module Dimension: 1.41x2.36inch / 35.70 x 60.00 mm
- Mount Hole Diameter: 2mm
- Weight: 26g

SHIPPING LIST

- 2.0" 320x240 IPS TFT LCD Display with MicroSD Card Breakout x1
- 2.54-10P Single Row Black Pin x1
- FPC0.5-18PIN Flex Flat Cable Reverse Direction 10cm x1