

FireBeetle Covers-DFR0507 OLED Display Module

DFR0507

Product Overview

07-13-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot FireBeetle Covers - DFR0507 OLED Display Module is a low-power development board designed for IoT projects. This FireBeetle covers display module features a 128x64 resolution OLED screen and a new version of the SSD1360 driver. The OLED display module supports Arduino library and micro python, providing full compatibility with the gravity I²C OLED-2864 screen through the I²C interface.



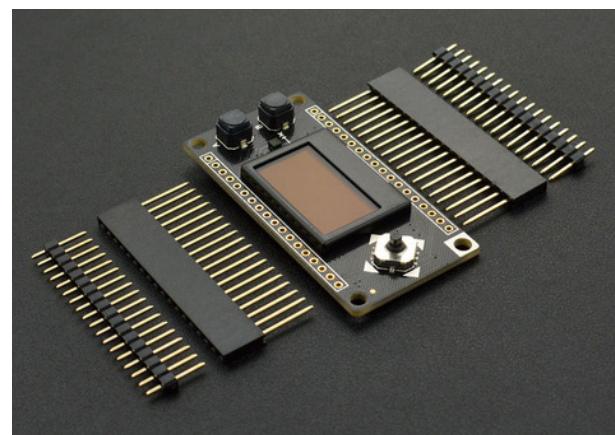
The OLED screen consists of a protective frame to protect the screen as well as the finger from getting scratched on the edge of the glass. The OLED display module integrates OLED 12864 with the GT30L24A3W multi-language font library chip and the BMA220 three-axis accelerometer. The FireBeetle covers-OLED 12864 display also features an analog directional key and two independent digital keys A and B.

Features

- Support multi-language font
- Built-in 3-axis acceleration sensor

Kit Contents

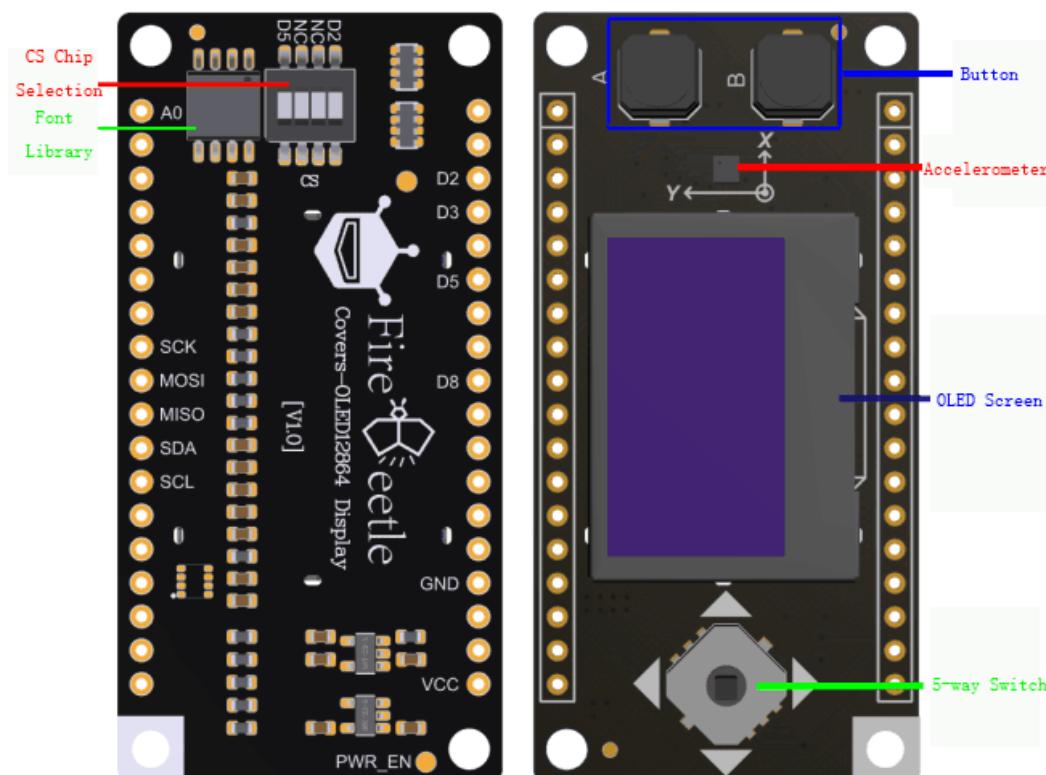
- 1 x Firebeetle covers DFR0507 OLED12864 display
- 2 x 18pin-2.54mm pin header
- 2 x 18pin-2.54mm long pin header



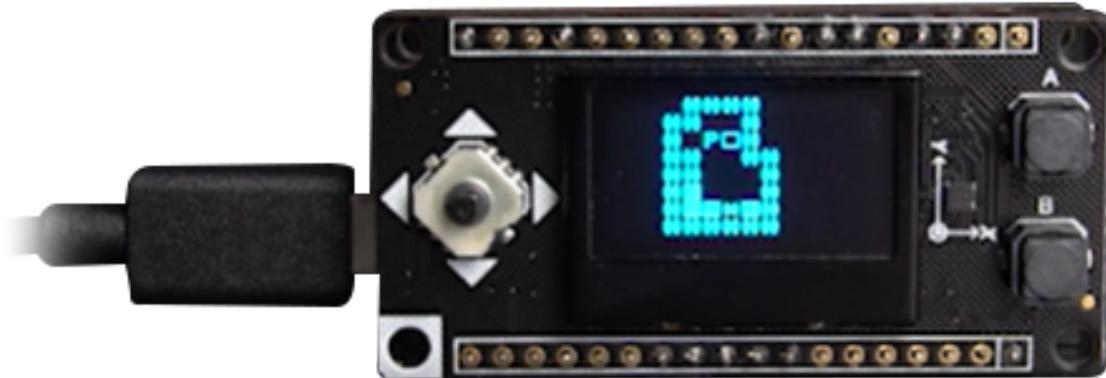
Specifications

- 3.7V-5.5V voltage range
- 2 User Buttons:
 - Using digital port D4
 - D8 detection mode
- 5-way switch:
 - Using analog port A0 detection mode
- Three-axis accelerometer BMA220: IIC
 - IIC databus
 - 6-bit resolution
 - 2/4/8/16g range
 - 250 μ A power consumption
 - 2mm x 2mm x 0.9mm dimensions
- OLED:
 - UG-2864HLBEG01 Model
 - 0.96" dimension
 - Blue color
 - IIC databus
 - 128x64 pixels
- GT30L24A3W font chip:
 - SPI databus
 - Character set:
 - GB18030 simplified Chinese/ traditional Chinese
 - KSC5601 Korean
 - JIS0208 Japanese
 - 180 Foreign fonts
 - Support for multinational Unicode
 - IS08859 and CODE-PAGE
 - Chinese character Size:12 dot matrix, 16dot matrix, 24dot matrix
 - Foreign character Size:16 dot matrix, 24 dot matrix
 - 12mA working current

Functional Block Diagram



DFR0507 OLED Display Module Overview



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-dfr0507-firebeetle-cover-display/>