HOME Q search Controller DFR0182 Wirless GamePad V2.0 **DFR0100 DFRduino Beginner Kit** For Arduino V3 DFR0267 Bluno DFR0282 Beetle DFR0283 Dreamer Maple V1.0 DFR0296 Bluno Nano DFR0302 MiniQ 2WD Plus **DFR0304 BLE Wireless Gamepad** DFR0305 RoMeo BLE DFR0351 Romeo BLE mini V2.0 DFR0306 Bluno Mega 1280 DFR0321 Wido-WIFI IoT Node DFR0323 Bluno Mega 2560 DFR0329 Bluno M3 DFR0339 Bluno Beetle DFR0343 UHex Low-power Controller DFR0355 SIM808 with Leonardo mainboard DFR0392 DFRduino M0 Mainboard Arduino Compatible DFR0398 Romeo BLE Quad Robot Controller DFR0416 Bluno M0 Mainboard DFR0575 Beetle ESP32 DFR0133 X-Board DFR0162 X-Board V2 DFR0428 3.5 inches TFT Touchscreen for Raspberry Pi DFR0494 Raspberry Pi UPS HAT DFR0514 DFR0603 IIC 16X2 RGB LCD KeyPad HAT V1.0 DFR0524 5.5 HDMI OLED-Display with Capacitive Touchscreen V2.0 DFR0550 5" TFT-Display with Touchscreen V1.0 DFR0591 raspberry pi e-ink display module V1.0 DFR0592 DC Motor Driver HAT DFR0604 I O Expansion HAT for Pi zero V1.0 DFR0566 IO Expansion HAT for Raspberry Pi TEL0122 FireBeetle Covers-LoRa

V2

DFR0528 UPS HAT for Raspberry Pi Zero DFR0331 Romeo for Edison Controller DFR0453 DFRobot CurieNano -A mini Genuino Arduino 101 Board TEL0110 CurieCore intel® Curie **Neuron Module** DFR0478 FireBeetle ESP32 IOT Microcontroller(V3.0) Supports Wi-Fi & Bluetooth DFR0483 FireBeetle Covers-Gravity I O Expansion Shield FireBeetle Covers-24×8 LED Matrix TEL0121 FireBeetle Covers-LoRa Radio 433MHz

DFR0498 FireBeetle Covers-Camera&Audio Media Board DFR0507 FireBeetle Covers-OLED12864 Display DFR0508 FireBeetle Covers-DC Motor & Stepper Driver DFR0511 FireBeetle Covers-

ePaper Black&White Display

DFR0531 FireBeetle Covers-

ePaper Black&White&Red

Display Module

TEL0125 FireBeetle Covers LoRa

DFR0492 FireBeetle Board-328P

DFR0489 FireBeetle ESP8266

Radio 915MHz

Radio 868MHz

with BLE4.1

Module

micro:bit

Sensor

Arduino

IOT Microcontroller

DFR0536 Micro bit Gamepad **Expansion Board** DFR0548 Micro bit Driver **Expansion Board** ROB0148 micro: Maqueen for

ROB0150 Micro bit Circular RGB

MBT0005 micro IO-BOX SEN0159 CO2 Sensor DFR0049 DFRobot Gas Sensor

TOY0058 Barometric Pressure

SEN0220 Infrared CO2 Sensor

SEN0226 Gravity I2C BMP280

LED Expansion Board

0-50000ppm SEN0219 Gravity Analog Infrared CO2 Sensor For

Barometer Sensor SEN0231 Gravity HCHO Sensor

SEN0132 Carbon Monoxide Gas Sensor MQ7

Accelerometer Breakout -

SEN0032 Triple Axis

ADXL345

Compass

- Razor IMU

Sensor V2.0

sensor

sensor

Sensor

sensor

Ultrasonic

SEN0251 Gravity BMP280

Barometric Pressure Sensors

DFR0143 Triple Axis Accelerometer MMA7361 Triple Axis Accelerometer

FXLN83XX Series

SEN0072 CMPS09 - Tilt **Compensated Magnetic**

DFR0188 Flymaple V1.1

SEN0073 9 Degrees of Freedom

SEN0224 Gravity I2C Triple Axis

Accelerometer - LIS2DH SEN0140 10 DOF Mems IMU

SEN0250 Gravity BMI160 6-Axis **Inertial Motion Sensor**

SEN0253 Gravity BNO055 + BMP280 intelligent 10DOF

SEN0001 URM37 V5.0

AHRS

Ultrasonic Sensor

SEN0002 URM04 V2.0

SEN0004 SRF01 Ultrasonic

SEN0005 SRF02 Ultrasonic

sensor

SEN0006 SRF05 Ultrasonic

SEN0007 SRF08 Ultrasonic

SEN0008 SRF10 Ultrasonic

SEN0149 URM06-RS485

COMMUNITY NEW

Introduction

Specification

Tutorial

FAQ

Board Overview

Compatibility Testing

More Documents

SKU:DFR0847

FORUM



BLOG

display, which can be suitable for wearable projects, mobile devices and smart home products. It supports DFRobot GDI

GDI main-controller with FPC, plug and play, and easy to wire! Compatible with 3.3V to 5V, the display consumes current less than 15mA in full-screen. It works well with controllers like UNO, Leonardo, ESP32, ESP8266, FireBeetle M0, etc Specification Operating Voltage: 3.3V-5V IPS Viewing Angles: 60/60/60/60 • Color Depth: 16-bit (RGB565)

edge design and offers glorious 160×80HD 16-bit color

display interface and can be conveniently connected to your

EDUCATION

Interface: SPI

Pixels: 160×80

- Driver Chip: ST7735
- Luminance: 250 (Typ) cd/m2

Operating Temperature: -30°C~+70°C

- Power Consumption of Full Screen: 15mA
- Display Area: 10.8×21.7 mm/0.43×0.85" Dimension: 13.5×34 mm/0.53×1.34"
- **Board Overview**
 - 34.00mm 2.54mm D0mm

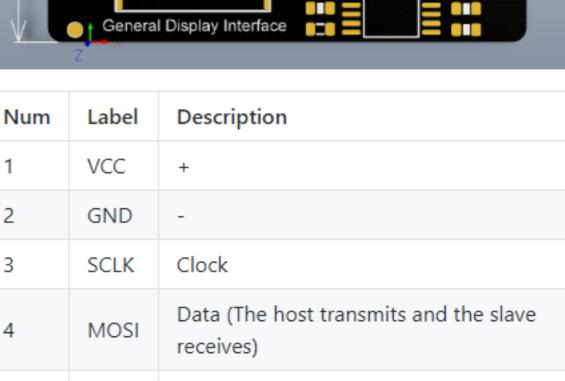
DFRobot 0.96 TFT

DC RT CS SI

3.00m

CS

5



Chip Select

6	RT	Reset		
7	DC	Data/Command		
8	BL	Backlight. The default backlight has been set, so users can also light the backlight without connecting backlight pin. In addition, when you connect the backlight pin, input high level (1) is to turn the backlight brightness to the maximum, and input low level (0) is to turn off the backlight.		
Tutorial				
The product, pertaining to Breakout module, uses SPI communication method and on-board GDI interface, making wiring easier so that what read from SD card can be easily displayed.				

Requirements

Note:

Hardware

Note:

 Software Arduino IDE

0.96" 160x80 LCD Display Module x 1

1. GDI interface need to use together with a master

3. If the SD card is in poor contact with the slot, initialization

computer with the GDI interface

may fail. Try again please.

Arduino 1.8.10 or later is recommended

DFRduino UNO Controller x 1

M-M/F-M/F-F Jumper wires

DFRobot_GDL Library File

About how to install the library?

DFRobot_GDL API Interface Functions

All demos of this product are stored in the DFRobot_GDL-

- >example->basic file 2. Before burning demos, please open the corresponding
 - materialization function (DFRobot_ST7735_240x240_HW_SPI)

Connection Diagram

Arduino Connection Diagram

Sample Code - basicTest

circles, rectangles, and so on.

void setup() {

void loop() {

Results

// put your main code here, to run repeatedly:

This is a basic display sample, including painting dots, lines,

// put your setup code here, to run once:

1.54" TFT LCD Display V1.0

MCU Miss Pass

Compatibility Testing

FireBeetle- ESP32	√	
FireBeetle- ESP8266	√	
Arduino Uno	√	
Leonardo	√	
Mega2560	√	
Arduino M0	√	
FAQ		

Special

Concern

NO

Test

For any questions, advice or cool ideas to share, please visit the DFRobot Forum.

Schematics Dimensions Datasheet

Get 0.96"160x80 Color SPI TFT Display from DFRobot

Store or DFRobot Distributor.

More Documents