

The ST7735S interface is



Article Overview

The ST7735S supports SPI and parallel interfaces, allowing flexible communication with microcontrollers for driving 262K-color TFT LCDs.

Overview

The ST7735S is a single-chip TFT LCD controller/driver designed for 128x160 or 132x162 pixel displays with 18-bit color depth . It integrates source and gate drivers, on-chip display RAM, and power supply circuits, enabling a compact display system with minimal external components . The chip can interface directly with microcontrollers via Serial Peripheral Interface (SPI) or parallel interfaces (8-bit, 9-bit, 16-bit, or 18-bit) depending on the application .

Communication Interfaces

1. SPI Interface (Serial Communication)

- The ST7735S supports standard SPI, which is commonly used in microcontroller projects for simplicity and fewer pins .
- Typical SPI pins include:
 - SCL/SCK: Serial clock input
 - SDA/MOSI: Serial data input
 - CS: Chip select, active low
 - DC (Data/Command): Selects between command or data mode
 - RESET: Hardware reset input...

Article Content

Arduino Interface with ST7735 TFT and DHT22 sensor

Arduino Interface with DHT22 sensor. Arduino reads temperature & humidity values from the sensor & print their

1.8inch LCD Module User Manual 1.8inch LCD Module USER

D supports 12-bit, 16-bit and 18-bit per pixel input format . They correspond to RGB444, RGB565 and RGB666 color formats. This

Interface TFT ST7735 Display with ESP32

The module uses the ST7735S driver chip and is controlled via a SPI-4wire interface. The operating voltage is 3.3V

Sitronix ST7735S Controller Datasheet Version 1

The ST7735S is a single-chip controller/driver for 262K-color, graphic type TFT-LCD. It consists of 396. source line and 162 gate line

Sitronix ST7735S Datasheet

Download the Sitronix ST7735S LCD Controller Datasheet Our design engineers have collected many lcd controller datasheets while

ST7735 LCD Controller Driver | LVGL Open

The ST7735S is a single-chip controller/driver for 262K-color, graphic type TFT-LCD. It consists of 396 source line and

How to Use TFT LCD Display ST7735S: Examples, Pinouts, and Specs

This display is controlled by the ST7735S, a single-chip controller/driver that provides a high-quality GUI interface for applications

Parallel library for the ST7735S TFT display driver

Hello, I want to know if there is an arduino library available for driving a ST7735S in 8-bit 8080 parallel mode. Doing a

1.8inch LCD display Module, 128x160 pixels, SPI interface

Overview This is a general LCD display Module, 1.8inch diagonal, 128x160 pixels, with embedded controller, communicating via SPI

ST7735 Arduino: Complete 1.8" TFT Color Display Guide

Learn how to interface ST7735 Arduino displays with this complete 1.8" TFT color guide. Covers wiring, libraries, code examples,

ST7735 Arduino TFT: Wiring, Graphics & SD Card Images

Interface the 1.8" ST7735 TFT with Arduino — SPI wiring, Adafruit GFX setup, text and shape drawing, BMP image

Interfacing Arduino with ST7735 display and DS18B20 temperature sensor

Temperature measurement station using Arduino UNO and DS18B20 temperature sensor. Temperature value is

ST7735 Arduino TFT: Wiring, Graphics & SD Card Images

It uses the ST7735 driver IC, which controls the display through the SPI communication interface — allowing fast data

1.44inch SPI Module ST7735S SKU:MSP1443

Driver IC ST7735S Data sheet Program Download 1.44 inch SPI Module Package Reference Materials Arduino IDE

How to Use ST7735: Examples, Pinouts, and Specs

The ST7735 is a low-power, full-color LCD driver designed for small displays in embedded systems. It supports a variety of display

ST7735S Datasheet (PDF)

Part #: ST7735S. Download. File Size: 2MbKbytes. Page: 201 Pages. Description: 132RGB x 162dot 262K Color with Frame Memory

ST7735S TFT Controller Datasheet | PDF | Microcontroller | Input/Output

It provides detailed information on the chip's features, pin layout, electrical characteristics, timing diagrams, and data transfer

Using the ST7735 1.8" Color TFT Display with Arduino

Hi guys, welcome to today's tutorial. Today, we will look on how to use the 1.8" ST7735 colored TFT display with

Everything You Need to Know About the IC ST7735S in 1.8

The IC ST7735S is a specialized controller for 1.8-inch TFT LCDs, supporting 18-bit color, SPI interface, and compatibility with

turfptax/micropython-st7735s-tutorial

Micropython ST7735S Tutorial This repository provides a tutorial to help you get an ESP32-S2 mini to communicate with a TFT

Interfacing Arduino with ST7735 TFT Display

Interface Arduino with ST7735 TFT display, print texts, numbers and draw shapes. Circuit diagram, Arduino code,

How to Use LCD TFT, ST7735S: Examples, Pinouts, and Specs

This circuit features an ESP32-C6 microcontroller interfaced with a China ST7735S 160x128 TFT display. The ESP32-C6 controls

Graphic ST7735 GUI display driver library, C source code for

ST7735 TFT display driver library The ST7735 and ST7735S display controllers are supported by the RAMTEX S6D0129 display

Contact Us

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