



2.8 Inch 480x640 RGB Interface IPS TFT LCD Display Module with 260 cd/m2 Luminance

Our Product Introduction

Basic Information



Product Specification

- Luminance: 260 Cd/m2
- Pins: 40 Pins
- Outline Size: 50(W) X 69.2(L) X 2.35(T) Mm
- Storage temperature: -30°C To 80°C
- Size: 2.8 Inch
- Aa Size: 43.2x57.6mm
- Connectivity: FPC Connector Type
- Touch Screen: Without Touch Screen (Customizable)
- Highlight: **2.8 inch IPS TFT LCD display, 480x640 RGB interface LCD module, 260 cd/m2 luminance TFT screen**



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Product Description

2.8 Inch RGB Interface 480X640 dots Industrial TFT LCD Display Module

Product Specifications

Product:	2.8" Inch TFT LCD Display	Resolution:	480x640 Dots
Driver IC:	ILI9806E, Or ST7701 Or Equivalent	Touch Screen:	Without Touch Screen (Customizable)
Cover Glass Dimension:	Customizable	Viewing Direction:	Free(80/80/80/80)
Outline Dim.:	50(W) X 69.2(L) X 2.35(T) Mm	Active Area:	43.20 X 57.60 Mm
Interface:	RGB (customizable)	Connection:	FPC Connector Type
Pin Number:	40 Pins (customizable)	Surface Luminance:	260 Cd/m2(nits)
Supply Voltage:	3.2 V	Backlight Type:	White LED

Product Introduction

This is a 2.8-inch, 480×640 high-resolution, RGB interface industrial-level TFT liquid crystal display module. It adopts IPS full-view technology and is specifically designed for embedded and industrial applications, balancing high-definition display, stability and durability, as well as small-sized installation requirements.

Core Parameters

Size and resolution: 2.8 inches (vertical display), 480×640 pixels, effective display area 43.2×57.6mm, high pixel density, clear and detailed text and graphics.

Display technology: IPS panel, full viewing angle (approximately 80° up, down, left, and right), accurate color reproduction, high contrast ratio, good visibility in strong light.

Interfaces: RGB parallel interface (40PIN FPC, 0.5mm spacing), fast transmission rate, compatible with STM32, FPGA, etc. as the main controller; some models support SPI auxiliary interface for configuration.

Driver and color: Commonly used ILI9806E, ST7701S driver IC, supports 16.7M colors (24 bits), vivid and natural picture colors.

Brightness and power consumption: Typical brightness 260-500 cd/m², backlight is WLED, long lifespan; logic voltage 3.2V, low power design.

Industrial-grade features: Working temperature -20 to +70 , storage temperature -30 to +80 ; anti-static, anti-interference, high surface hardness, suitable for harsh working conditions.

Module size: 50×69.2×2.35mm, lightweight and compact, easy to embed in small devices.

Main Applications

Industrial control terminal: PLC human-machine interface, equipment control panel, data collector, temperature control instrument, suitable for harsh environments such as factory workshops and outdoor equipment.

Handheld intelligent device: Portable detector, medical monitor, logistics PDA, barcode scanner, power inspection terminal, also suitable for high-definition display and low power consumption, long battery life.

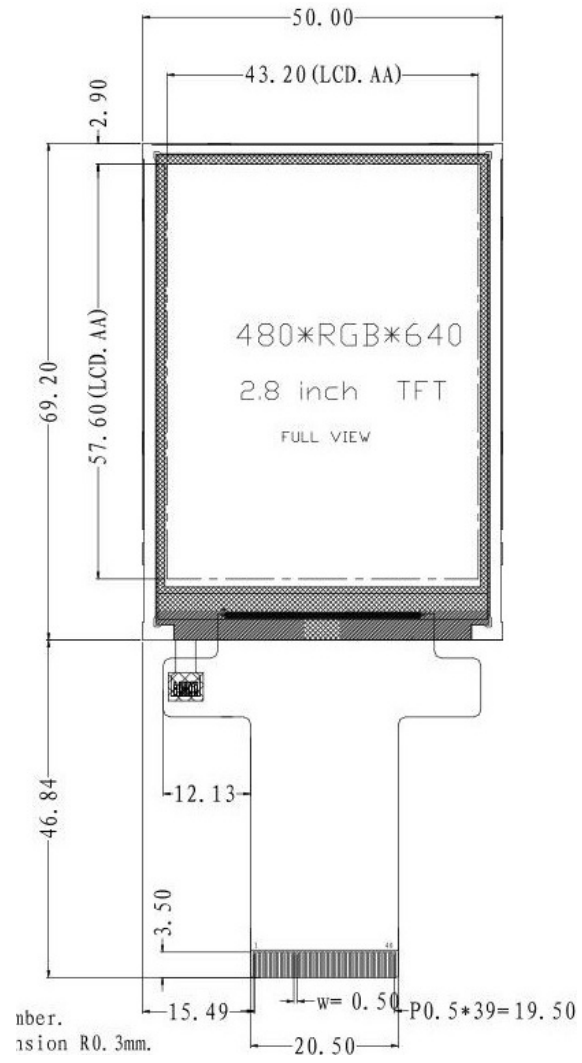
Smart home: Smart door lock interaction screen, temperature controller panel, visible doorbell, smart switch, providing clear and stable human-computer interaction interface.

Internet of Things terminal: Environmental monitoring equipment, intelligent agricultural sensors, photovoltaic equipment, shared equipment display screen, real-time display of data and status.

Medical equipment: Portable blood glucose meter, blood pressure monitor, diagnostic terminal, high color reproduction ensures precise display of medical data.

Vehicle and security: OBD diagnostic instrument, access control terminal, intercom, wide viewing angle suitable for multi-angle viewing, anti-electromagnetic interference.

Technical Drawings





Frequently Asked Questions

1. I want the LCD display 8 digits and the outline size is 65x30x2.8mm.....?

Answer: No problem. Firstly, please kindly send us your specification/drawing paper. If you have not the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.

2. This LCD is just what we want, but it is big size, do you have any smaller size? And the display content need to be changed a little.

Answer: For the segment type LCD module, if you need modify the outline size or display content, a new LCD glass module is need. We have to open new tooling for you.

3. This LCD display is HTN type, but I want STN type, can you make?

Answer: That's all right. We can change for you as per you request.

4. I want customize a new LCD module. Can you do?

Answer: Yes, we can. Please send your drawing paper. If you have not, please advise me the outline size of the LCD display, display information (Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp. Operating Temp. Supply Voltage, Viewing direction, drive condition), we can customize for you.

5. What is leading time for tooling?

Answer: General speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment, we can report you the exact time when you confirm the drawing paper.

6. Can you send us samples for checking?

Answer: Yes. Samples order is available.

7. What is the Leading Time?

Answer: If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. Suppose we can finish earlier, we will report the information in advanced.

Product Video



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