1.44 Inch 128x128 Resolution TFT LCD Display with MCU 8bits Interface for Industrial and Smart Devices

Our Product Introduction

Basic Information

Product Specification

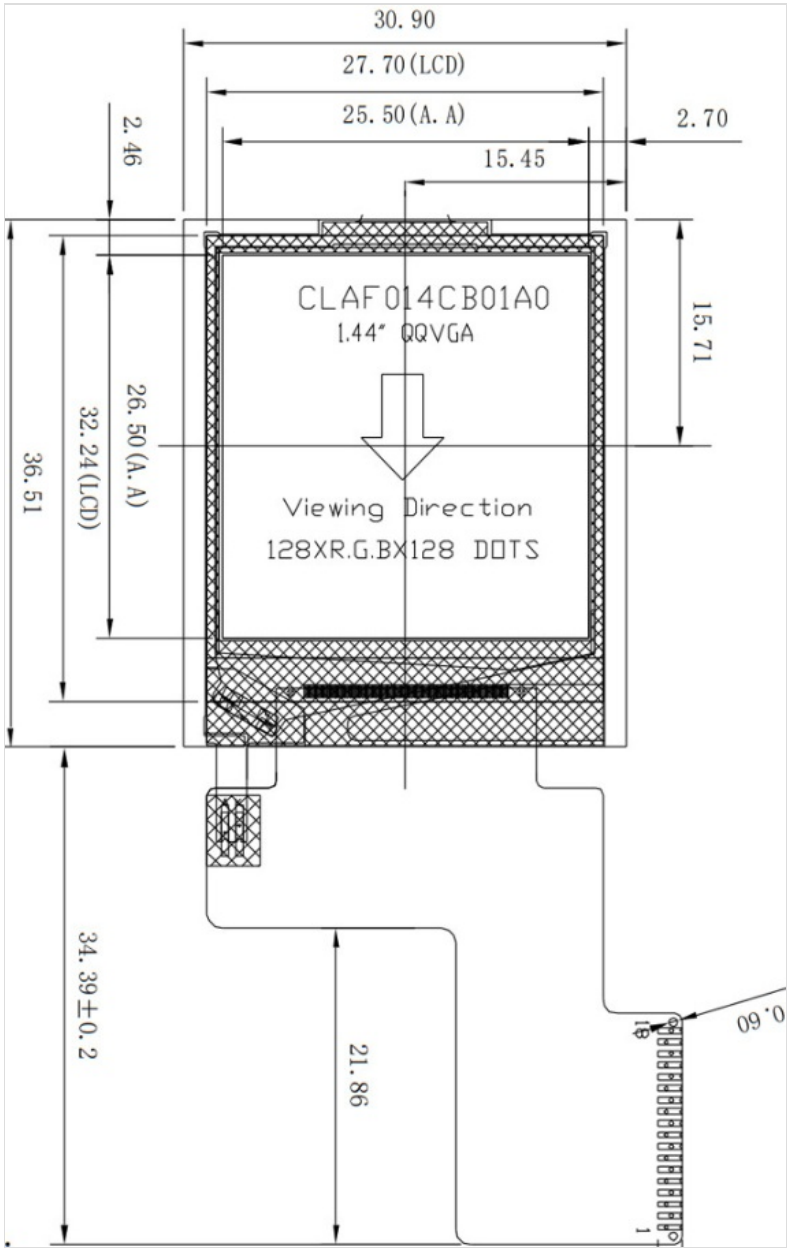
- Screentype: LCD TFT
- Panel Type: IPS
- Interface Types: MCU 8bits
- Pin Number: 18 Pins
- Outline Size: 30.9*36.51*2.3mm
- Operating Temperature: -20°C To 70°C
- Connection: Soldering (can Be Customized)
- Resolution: 128*128 Pixels
- Highlight: **1.44 Inch TFT LCD Display**, **128x128 Resolution LCD TFT Screen**, **MCU 8bits Interface TFT LCD Module**

Product Description

1.44 Inch 128x128 LCD Display MCU 8bits Interface Square TFT LCD Display

Product:	Square 1.44 Inch TFT LCD Display	Resolution:	128x128 Pixels
Viewing Direction:	6 O'clock	Touch Screen:	Without Resistive Touch Screen (Optional)
Interface:	MCU 8bits	Pin Number:	18 Pins (can Be Customized)
Connection:	Soldering (can Be Customized)	Driver IC:	ILI9163C
Outline Dimension:	30.9*36.51*2.3mm	Surface Luminance:	150 Cd/m2 (can Be Customized)
Operating Temp.:	-20 To +70	Compliance:	REACH & RoHS Compliant

Product Drawing



Product Core Introduction

This compact square color display module utilizes TFT (thin film transistor) active matrix technology with a 128×128 pixel 1:1 square resolution, making it ideal for displaying icons, text, small graphics, and simple animations. The display features the ST7735S driver chip with a standard 8-bit MCU parallel interface (8080 interface), with many models also supporting SPI serial mode for both high-speed screen refreshing and simplified IO requirements.

The display supports 65K/262K full color (16/18-bit color depth) with transmissive display combined with white LED backlight and adjustable brightness (typically 300-350 cd/m²), ensuring clear visibility in low-light outdoor environments. Operating at 3.3V with low-power design, it's suitable for battery-powered devices. The temperature range of -20 to +70 (storage temperature -30 to +80) makes it adaptable for industrial and outdoor applications.

Structurally, it employs FPC flexible wiring (common 20-pin ZIF interface) with a slim module thickness of 2.3-2.5 mm and an effective display area of approximately 25.5×26.5 mm. The compact design facilitates integration in narrow spaces, with some models offering capacitive touch full-coating versions.

Core Application Scenarios

Smart Wearables and Portable Health Devices: Small smart watches, fitness trackers, fingertip oximeters, portable glucometers - square screens display heart rate, steps, and numerical reports neatly with touch interface for quick navigation

Industrial Instruments and Embedded Terminals: Small PLC panels, sensor data indicators, handheld detection instruments - 8-bit MCU interfaces directly compatible with mainstream industrial control chips including 51 single-chip microcontrollers and STM32

Smart Home and IoT Devices: Status screens of smart locks, visual panels of Bluetooth speakers, small environmental monitors (temperature/humidity/PM2.5) - low power consumption and small size perfectly match product design requirements

Maker and Educational Electronics: Arduino, Raspberry Pi Pico, ESP32 development kits - paired with mature TFT_eSPI driver libraries for quick graphic UI, data visualization, and game interface development

Car-mounted Small Screens: Tire pressure monitors' secondary screens, quick settings screens of dashcams - wide temperature range ensures stable operation in vehicle high/low temperature environments

Frequently Asked Questions

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

Yes, we can accommodate your requirements. Please send us your specifications or drawing. If you don't have specifications, you can provide samples, and we'll recommend suitable standard products or customize based on your requirements.

This LCD is what we want, but the size is too big. Do you have smaller sizes? The display content also needs minor changes.

For segment type LCD modules requiring outline size or display content modifications, a new LCD glass module is necessary, requiring new tooling development.

This LCD display is HTN type, but I want STN type. Can you make it?

Yes, we can change the display type according to your request.

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

Yes, we offer customization services. Please send your drawing or provide the outline size, display information (glass thickness, polarizer, display type, connector mode, storage temperature, operating temperature, supply voltage, viewing direction, drive condition).

What is the lead time for tooling?

Typically 15 to 25 days after drawing confirmation and tooling charge payment. We'll provide exact timing upon drawing confirmation.

Can you send us samples for checking?

Yes, sample orders are available.

What is the lead time for production?

For standard products in stock, lead time is one day after payment. For mass production of special orders, lead time is approximately 15-30 days. We'll notify you in advance if we can complete earlier.

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