

0.85 Inch Square IPS TFT LCD Display with 128x128 Pixels Resolution and MCU 8bits Interface

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



Product Specification

- Surface Luminance: 350 Cd/m² (nits)
- Outline Size: 17.6 X 20.6 X 1.45 Mm
- Touchscreen: Optional Resistive Or Capacitive Touch
- Pin Number: 28 PIN
- Interface Types: MCU 8bits
- Aa Size: 15.2×15.2mm
- Storage Temperature: -30°C To 80°C
- Cover Glass Dimension: Customizable
- Highlight: **0.85 inch IPS TFT LCD display ,
128x128 pixels TFT screen,
MCU 8bits interface LCD**



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Product Description

0.85 Inch Square Type With MCU Interface TFT LCD Display

Product Overview

Product:	0.85" Inch Tiny TFT IPS	Resolution:	128x128 Pixels
Driver IC:	NV3023A Or Equivalent	Outline Dim.:	17.6 X 20.6 X 1.45 Mm
Touch Screen:	Without Touch (Resistive And PCAP Touch Optional)	Cover Glass Dimension:	Customizable
Viewing Direction:	All Viewing Angles IPS	Interface:	MCU 8 Bits (customizable)
Connection:	Soldering Type (can Be Customized)	Pin Number:	28 Pins (Customizable)
Surface Luminance:	350 Cd/m2 (nits)	Backlight Type:	White LED

Product Introduction

0.85-inch square TFT liquid crystal display (with single-chip microcontroller interface) is a small-sized color liquid crystal display module specifically designed for embedded systems. The core adopts IPS-TFT panel technology and is equipped with common communication interfaces for single-chip microcontrollers (MCU).

Core Parameters and Features

Size: Physical size 0.85 inches (square), shape approximately 17.6×20.6mm, display area 15.2×15.2mm

Resolution: 128×128 pixels, square dot matrix, clear and detailed display

Color: 65K colors (RGB 16 bits), bright colors, good color reproduction

Panel type: IPS full-view, viewing angles from top, bottom, left, and right approaching 180°, no color shift or color change

Driver and interface: Built-in GC9107, ST7735, or NV3023 etc. driver chips; supports 8-bit MCU parallel interface or 4-wire SPI serial interface, can be directly connected to mainstream MCUs such as STM32, Arduino, ESP32, 51 microcontroller, etc.

Electrical characteristics: Working voltage 2.4V-3.3V, low power consumption; white LED backlight, brightness about 300-450 cd/m², clear visibility both indoors and outdoors

Structure: Thin module (thickness approximately 1.45mm), FPC flexible ribbon cable connection, supports soldering or socket connection

Main Applications

Due to its small size, full viewing angle, low power consumption, and easy driving characteristics, it is widely used in various compact intelligent devices and portable products:

Smart Wearable Devices

Smart wristbands and watches: Display time, heart rate, steps, message notifications and other small dial interfaces

Bluetooth earphones charging case, smart rings: Status and battery level indicators

Healthcare Equipment

Portable glucometer, oximeter, thermometer: Display measurement values and results

Small hearing aids, rehabilitation devices: Parameter and mode display

Consumer Electronics and Smart Home

Mini Bluetooth speaker, TWS earphone case: Mode, volume, battery level display

Smart locks, cameras: Status indication and menus

E-cigarettes, beauty devices: Working parameters and gears

Industrial and Industrial Control

Small sensors, transmitters: Real-time data display

Portable testers, handheld devices: Menu and results

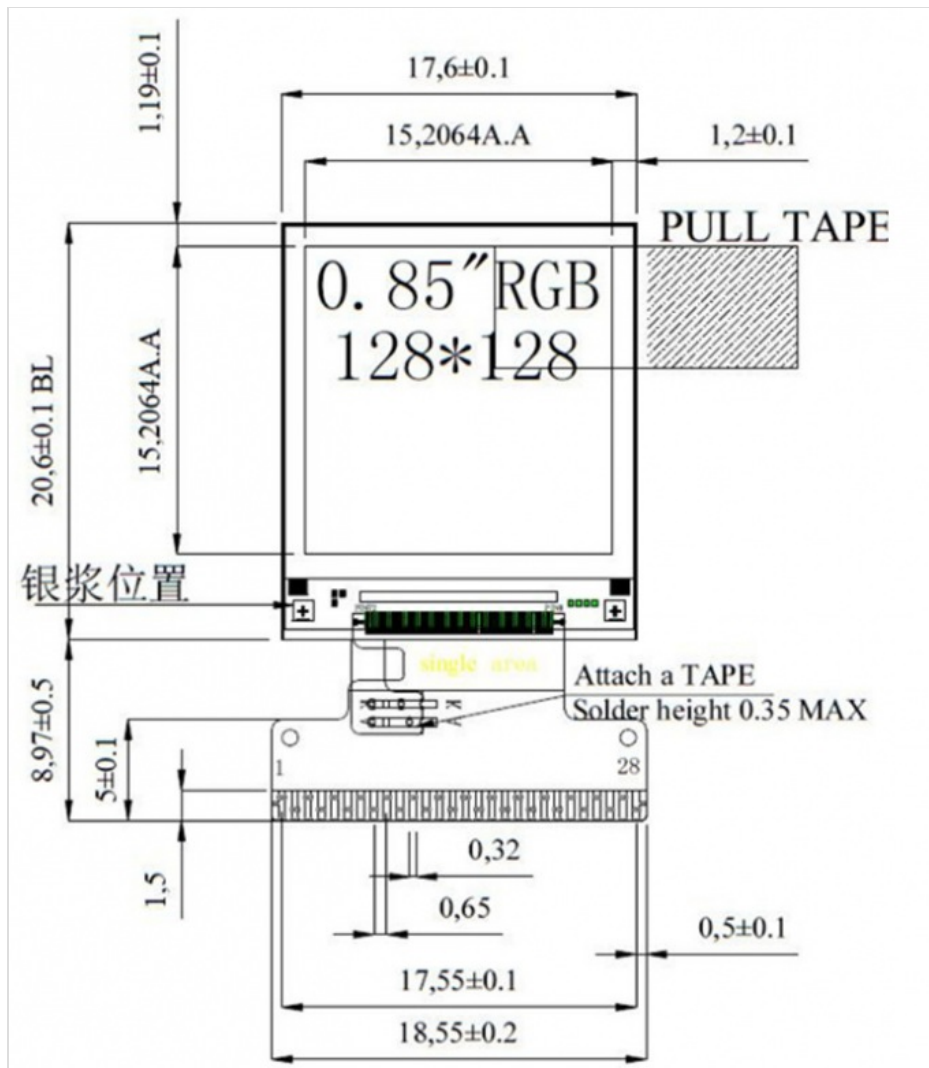
Internet of Things nodes (IoT): Status and simple interaction interface

Other Applications

Cryptocurrency hardware wallet

Toys, drone remote controllers, small instruments

Product Drawings





Our Services

Free repair within one year after the shipment of products from us

Replacement within 30 days after the shipment of products from us due to products' problems

We can print your logo and stick your model No. on the cameras

We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts

Professional technician supports. We have a good after-sales service team. They can solve your problems in time

All goods will be inspected and tested by our engineers and QC/QA before packing and shipment

Customers satisfactory is most important to us. If you have any problem or questions regarding our transaction. Please contact us by Email or online. It will be responded within 24 hours

Products pictures only for your reference. Please kindly refer to the specification. We can provide the products based on the specification. Or you can offer your own specification or drawing, we can customize all kinds of LCD displays for you

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.



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