

2.4" Inch 240x320 QVGA MCU/RGB Interface With RTP TFT LCD Display

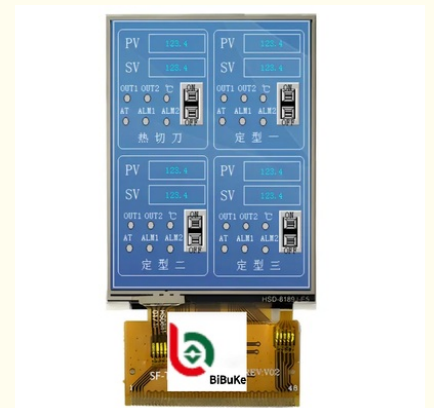
Our Product Introduction

Basic Information



Product Specification

- Panel Type: IPS
- Surface Luminance: 250 Cd/m² (typical)
- Active Area: 36.72×48.96mm
- Connectivity: FPC Type Connection
- Overall Dimensions: 42.72×60.26×3.5mm
- Pin Number: 48pins
- Resolution: 240x320 QVGA
- Storage temperature: -30°C To 80°C
- Highlight: **2.4 inch QVGA TFT LCD display, MCU RGB interface TFT screen, RTP touch TFT LCD panel**



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Product Description

2.4" Inch 240x320 QVGA MCU/RGB Interface With RTP TFT LCD Display

Description

Product:	2.4 Inch TFT	Touch Screen:	Resistive Touch Panel (RTP)
Resolution:	240x320 QVGA	Cover Glass:	Without(Customizable)
Viewing Direction:	12 O'clock	Interface:	MCU/RGB/SPI
Pin Number:	48pins	Connection:	Soldering
Surface Luminance:	350 Cd/m ²	LED Lifetime:	40,000 Hours

Product Introduction

This is a 2.4-inch QVGA resolution TFT liquid crystal display module, integrating an MCU/RGB dual interface and resistive touch screen (RTP). It is a miniaturized and cost-effective color display solution for embedded systems.

Core parameters

Size: 2.4 inches (diagonal), display area 36.72×48.96mm, overall approximately 42.72×60.26×3.5mm.

Resolution: 240×320 pixels (QVGA), supports 65K/262K color display.

Interface: MCU (8/16-bit parallel) + RGB dual interface, compatible with SPI, compatible with mainstream single-chip microcontrollers such as STM32.

Touch: Built-in RTP resistive touch screen, supports pressing input, no need for additional touch chip.

Driver and Electrical: Common ST7789V/ILI9341V driver IC, 3.3V power supply, brightness 250–350cd/m², operating temperature -20 to +70 .

Features: TFT thin-film transistor technology, fast response, vivid colors; onboard controller, simplifies main control development; FPC flexible ribbon cable connection, small size, easy integration.

Main purpose

Industrial control and instruments: PLC control panel, data acquisition terminal, portable detector, display parameters, status and waveforms, suitable for harsh temperature and humidity as well as vibration environments.

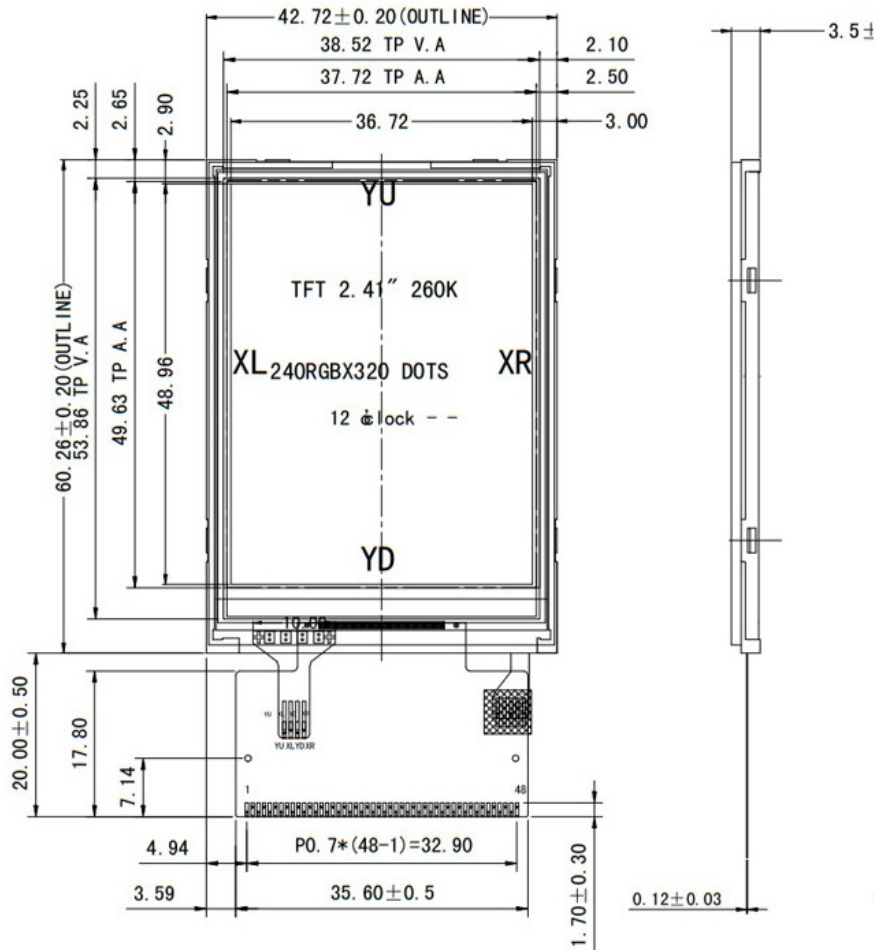
Consumer electronics and portable devices: Children's camera, MP4, game console, smart door lock, temperature control panel, provide interactive interface and information display, low power consumption and battery-powered adaptation.

Medical electronics: Blood glucose meter, blood pressure monitor, handheld electrocardiogram device, display measurement data, menu and waveforms, meet the requirements of miniaturization and low energy consumption.

Vehicle and security: Driving recorder, vehicle terminal, walkie-talkie, access control equipment, display status, picture and operation menu, resistant to vibration, adaptable to wide temperature range.

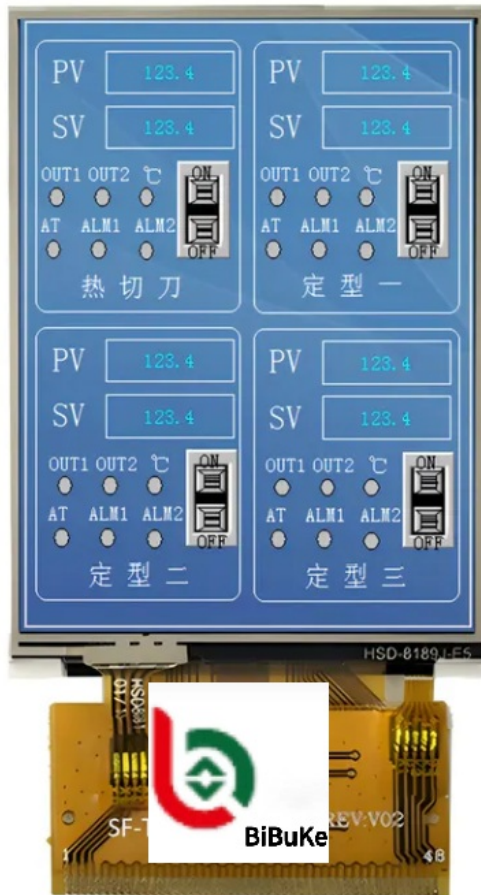
Embedded development and DIY: Arduino/STM32 development board, Internet of Things terminal, smart instrument prototype, rich interfaces and mature data, quickly realize visual interface.

External Dimension



Interface Pin Definition

NO	PIN NAME	I/O	Description
1	YU	I	Touch Panel Pin
2	XL	I	Touch Panel Pin
3	YD	I	Touch Panel Pin
4	XR	I	Touch Panel Pin
5	GND	I	Ground
6	VCI	I	Power Supply 2.8V Voltage
7	VDD3	I	Power Supply 2.8V/ 1.8V Voltage
8	VDD3_P(-NC)	-	Set Open
9	BC_CTR L(-NC)	-	Set Open
10	BC(-NC)	-	Set Open
11	TE	O	Tearing effect output pin to synchronize MPU to frame writing, activated by S/W command. When this pin is not activated, this pin is low.
12-29	DB17-DB0	I/O	Display Data I/O
30	SDA	I/O	Serial input signal
31	DOTLCK	I	Dot Clock Signal for RGB Interface Operation
32	ENABLE	I	Data Enable Signal for RGB Interface Operation
33	HSYNC	I	Line Horizontal Synchronizing Signal
34	VSYNC	I	Frame Vertical Synchronizing Signal
35	RDX	I	Read strobe signal input pin
36	WRX	I	Write strobe signal input pin
37	DCX	I	Register select signal
38	CSX	I	Input pin for chip selection signal
39	RESET	I	LCM Reset input signal
40	IM0	I	Please refer to the fourth page, Select the MCU interface mode
41	IM1		
42	IM2		
43	IM3		
44	LED_A	I	LED Anode
45	LED_K1	I	LED Cathode
46	LED_K2	I	LED Cathode
47	LED_K3	I	LED Cathode
48	LED_K4	I	LED Cathode



FAQ:

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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