



## 7-Inch IPS High Brightness 1024\*600 Dots RGB Interface With CTP TFT LCD Display

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

High Brightness  
IPS Display



Sharp Visual Clarity

### Product Specification

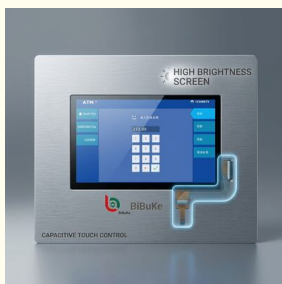
- Product Type: T
- Interface: R
- Backlight Technology: L
- Light Source: W
- Backlighttype: L
- Display Size: 7
- Brightness: 1
- Color Support: 1
- Highlight: 7-Inch IPS TFT LCD Display ,  
1024x600 Dots TFT LCD Display ,  
1000 cd/m<sup>2</sup> Brightness LCD TFT Screen

High Brightness  
IPS Display



1024x600 resolution  
Capacitive touch control

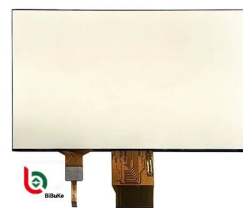
### More Images



High Brightness  
IPS Display



Sharp  
Visual  
Clarity



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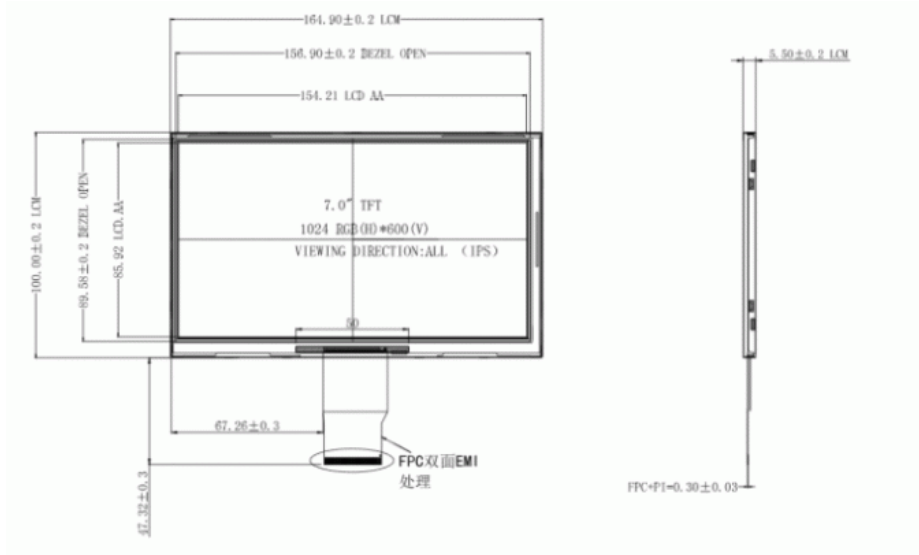
## Product Description

### 7-Inch IPS High Brightness 1024\*600 Dots RGB Interface With CTP TFT LCD Display

#### Product Specification

Feature	Specifications
LCD type	7.0 inch
Resolution (H*V)	1024(RGB) x600
Technology Type	a-Si TFT
Pixel Configuration	R.G.B. Vertical Stripe
Display Mode	Normally Black
Surface Treatment	Glare
Viewing Direction	All
Gray Scale Inversion Direction	No
OutlineDimensions (W x H x T) (mm)	218.42* 146.9*9.55
Active Area(mm)	154.21*85.92
With /Without Touch screen	With CTP
Match Connector Type	50PIN 0.5PITCH
Backlight Type	LED
Interface	RGB
Number of color	16.7M
Driver IC	HX8282A11 HX8696A01
CTP IC	GT911
CTP structure	G+G
CTP interface	I2C

#### LCD External Dimensions



#### Interface Pin Definition

NO.	PIN NAME	Description
1	LED-A1	Power voltage for LED backlight Anode
2	LED-A2	Power voltage for LED backlight Anode
3	LED-K1	Power voltage for LED backlight Cathode
4	LED-K1	Power voltage for LED backlight Cathode
5	GND	Power ground
6	VCOM	VCOM voltage
7	DVDD	Power for Digital Circuit
8	MODE	DE or HV mode control.H:DE mode.L:HSD/VSD
9	DE	Data enable
10	VS	Vsync signal input
11	HS	Hsync signal input
12	B7	BLUE Data Signal(MSB)
13	B6	BLUE Data Signal
14	B5	BLUE Data Signal
15	B4	BLUE Data Signal
16	B3	BLUE Data Signal
17	B2	BLUE Data Signal
18	B1	BLUE Data Signal
19	B0	BLUE Data Signal(LSB)
20	G7	GREEN Data Signal(MSB)
21	G6	GREEN Data Signal
22	G5	GREEN Data Signal
23	G4	GREEN Data Signal
24	G3	GREEN Data Signal
25	G2	GREEN Data Signal

26	G1	GREEN Data Signal
27	G0	GREEN Data Signal(LSB)
28	R7	RED Data Signal(MSB)
29	R6	RED Data Signal
30	R5	RED Data Signal
31	R4	RED Data Signal
32	R3	RED Data Signal
33	R2	RED Data Signal
34	R1	RED Data Signal
35	R0	RED Data Signal(LSB)
36	GND	Power ground
37	DCLK	DOT CLOCK
38	GND	Power ground
39	L/R	Select left or right scanning direction.
40	U/D	Select up or down scanning direction.
41	VGH	Gate ON Voltage
42	VGL	Gate OFF Voltage
43	AVDD	Power voltage for Analog circuit.
44	RESET	Global reset pin
45	NC	No connection
46	VCOM	VCOM voltage
47	DITHB	Dithering function.H:6bit resolution(last 2bit of input data Truncated) L:8bit resolution (default setting)
48	GND	Power ground
49	NC	No connection
50	NC	No connection

Here we provide a detailed introduction to the 7-inch IPS high-brightness 1024×600 RGB interface CTP TFT liquid crystal display module, along with corresponding product images.

### Product Core Introduction

This is a high-integration, balanced display module with color. It has a 7-inch diagonal size, a resolution of 1024×600 (WSVGA wide screen with a 16:9 ratio), uses IPS (planar conversion) panel technology, is equipped with RGB parallel interface and CTP (capacitive touch screen), and features a high-brightness backlight design (common high-brightness versions range from 500 to 1000 cd/m<sup>2</sup>, allowing clear visibility even in outdoor sunlight).

Display and Touch Control Advantages: IPS technology offers a 178° full viewing angle, ensuring no color shift or dimming in any direction; 24-bit true color (1670 million colors), with realistic and natural color reproduction; CTP supports 10-point multi-touch, with fast response, high sensitivity, smooth operation, and a high light transmittance on the touch layer, which does not affect the display effect.

Interface and Electrical Characteristics: RGB parallel interface (commonly 50-pin FPC), facilitating direct connection with mainstream controllers such as STM32, RK, etc.; the working voltage is mostly 3.3V, with reasonable power consumption control; the standard operating temperature range is -20°C to 70°C, and some industrial-grade models can extend to a wider temperature range, with strong anti-static and anti-interference capabilities, suitable for complex environments.

Structural Dimensions: The effective display area is approximately 154.21×85.92 mm, and the module's overall size is commonly 164.9×100.0×5.5 mm. The thin design is suitable for embedded installation in various devices.

### Typical application

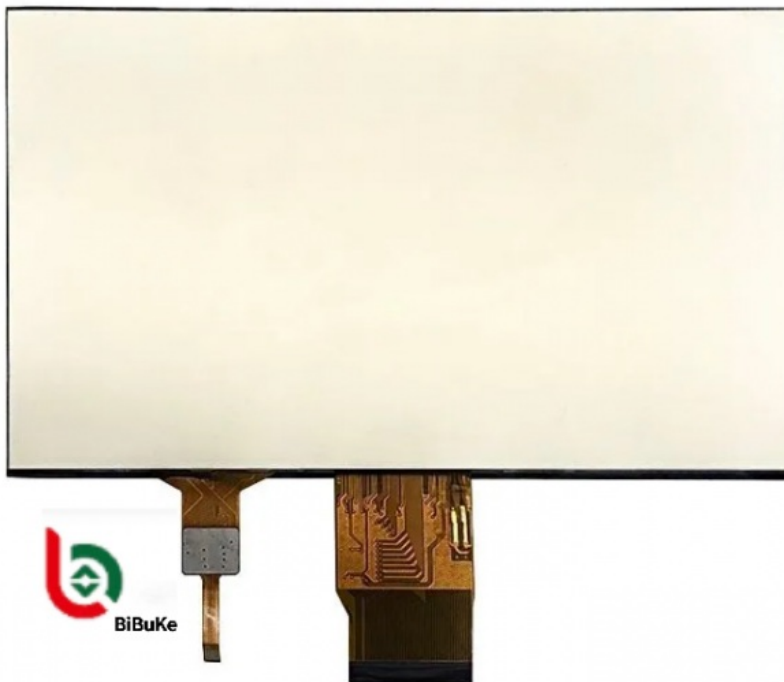
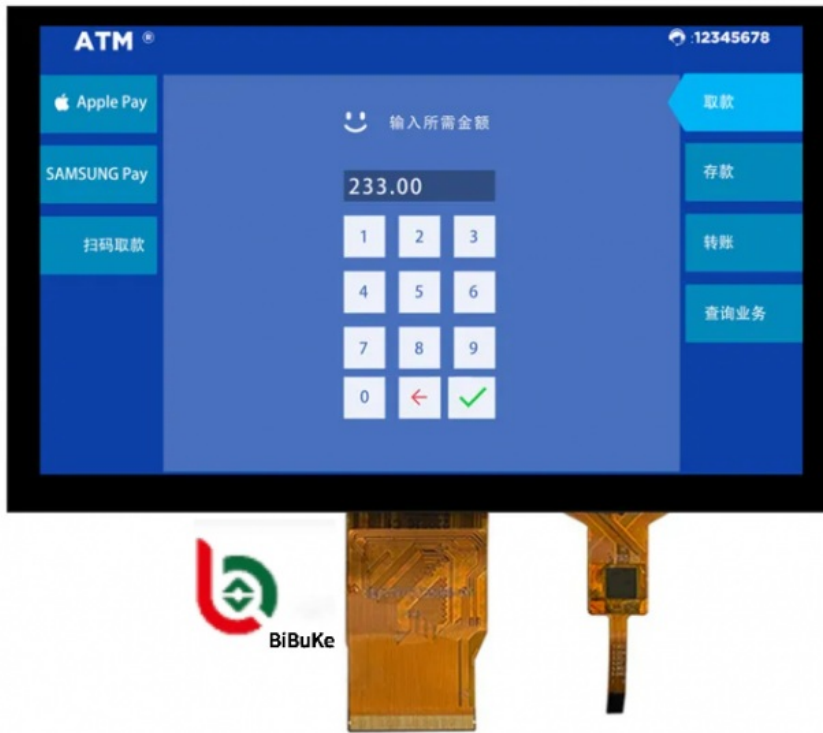
Industrial Control and Automation: Suitable for PLC human-machine interfaces, machine tool operation panels, warehouse logistics terminals, industrial robot trainers. With high brightness, it can be viewed outdoors. The full-angle design facilitates collaborative operation by multiple people.

Vehicle Electronics: Vehicle central control screens, reversing camera displays, instrument panels for trucks / construction machinery. With wide temperature performance, it can adapt to extreme temperatures inside the vehicle. Touch control is convenient for quick operations during driving.

Medical Equipment: Portable ultrasound machines, monitors, blood analyzers, etc. The IPS color accuracy and high brightness can clearly present medical data and images. Touch operation is hygienic and convenient.

Consumer and Portable Terminals: Intelligent building intercom screens, handheld POS machines, outdoor inspection tablets, smart home control panels. Balance display clarity and operational convenience.

Internet of Things and Embedded Devices: Various smart city terminals, agricultural environment monitors, charging station displays, compatible with embedded systems, stable and reliable.



## 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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