

3.5 Inch TFT LCD Screen Module 320x480 Dots ST7796 40pin 12 O'clock

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH



Product Specification

- Screen Type: TFT
- Display Mode: Normal White
- Backlight Technology: LED
- Active Area: 48.96(H)* 73.44(V) Mm
- Viewing Angle: 12 O'clock
- Size: 3.5inch
- Backlight: White LED
- Refresh Rate: 60 Hz
- Highlight: **3.5 inch TFT LCD screen module, ST7796 LCD module 40pin, 320x480 TFT screen with warranty**



Product Description

3.5 Inch TFT LCD Module 320x480 Dots ST7796 40pin 12 O'clock

Detail Information

Panel Size:	3.5 Inch(Diagonal)
LCD Resolution:	320x480 Dots
Viewing Angle:	12 O'clock
Driver IC:	ST7796U
Interface:	SPI/ Parallel/ RGB
FPC:	40pin

Product Description

3.5 Inch TFT LCD Module 320x480 Dots ST7796 40pin Serial Interface Touch Optional

Key Features of a 3.5-Inch TFT Display:

Color Depth:

- These displays support **16.7 million colors** (24-bit color), meaning they can produce vibrant and accurate images and graphics.

Touchscreen (Optional):

- Many 3.5-inch TFT displays come with a **resistive** or **capacitive touchscreen** layer, enabling user interaction via touch. **Resistive touch** is pressure-sensitive and works with any object (including a finger, stylus, or gloves), whereas **capacitive touch** is more sensitive and supports multi-touch gestures but usually requires conductive input (finger).

Interface:

- **SPI (Serial Peripheral Interface):** Most 3.5-inch TFT displays use **SPI** for communication with microcontrollers or single-board computers like **Arduino** and **Raspberry Pi**. SPI uses fewer pins than parallel communication, making it more compact and easier to connect.
- **Parallel Interface:** Some larger TFT displays use parallel communication for faster data transfer, though they require more I/O pins.

Basic Parameters:

NO.	ITEM	SPECIFICATIONS
1	Product Name	3.5 Inch TFT LCD
2	LCD Type	Normally White
3	Viewing Angle	12 O'clock
4	Resolution	320x480 dots
5	Operating Temperature	-20~+70
6	Storage Temperature	-30~+80
7	FPC Connector	40PIN, ZIF type
8	Driver IC(COG)	ST7796U
9	Interface	Serial Interfaces, SPI/ Parallel/ RGB
10	Backlight Type	6-LED, White, 120mA
11	Outline Dimension	54.66(H)* 82.94(V)* 2.25(D) mm
12	Active Area	48.96(H)* 73.44(V) mm






TFT Display

Picture	Diagonal Screen Size	Color type	Model number	Resolutions	Color	Outline dimension	Active area	Pixel size (mm)	Driver IC	Interface	Operating temperature	Storage Temperature	Pins	With Touch	Remark
	0.96	Full color	UN096-1	80x160	262K	13.74x28.14x1.53	10.8x21.7	0.135x0.1356	ST7735S	4 SPI	-20°C~70°C	-30°C~80°C	13P	No	IPS
	1.14	Full color	UN114-01	135x240	262K	17.6x31.0x1.6	14.86x24.912	0.1101x0.1038	ST7789V	4-wire SPI	-20°C~70°C	-30°C~80°C	13P	No	TN
	1.3	Full color	UN013-01	240x240	262K	26.16x29.22 x1.5	23.4x23.4	0.0975x0.0975	ST7789VW	4 Line SPI	-20°C~70°C	-30°C~80°C	12P	No	IPS
	1.44	Full color	UN144-01	128X128	65K	29x34.41x2.25	25.5x 26.5	0.198x0.198	ST7735S	SPI	-20°~60°	-30°~70°	10P	No	TN
	1.44	Full color	UN144-02	128X128	65K	29.50x36.50x2.25	25.5x 26.5	0.2x0.2	ST7735S	SPI	-10°~60°	-20°~70°	14P	No	TN
	1.77	Full color	UN177-01	128X160	262K	34x43.7x2.6	28.03x35.04	0.219x0.219	ST7735S	SPI	-20~+70°C	-30~+80°C	14P	No	TN
		Full color	UN177-02	128X160	262K	34x42.9x2.3	28.03x35.04	0.219x0.219	ST7735S	SPI	-20~+70°C	-30~+80°C	10P	No	TN

	1.8	Full color	UN18NT	128x160	262K	34x46.7x2.3	28.03x35.04	-	ST7735S	SPI	-20~+70°C	-30~+80°C	18P	No	TN
		Full color	UN18T-C2	128x160	262K	34x45.83x3.65	28.03x35.04	-	ST7735S	SPI	-20~+70°C	-30~+80°C	24P	Yes/No	TN
		Full color	UN18T	128x160	262K	34x45.83x2.4	28.03x35.04	-	ST7735S	SPI	-20~+70°C	-30~+80°C	14P	Yes/No	TN
		Full color	UN18NT-M	128x160	262K	34x46.7x2.3	28.03x35.04	-	IL9343C/ ST7735S	MCU8080	-20~+70°C	-30~+80°C	20P	No	TN
	2	Full color	UN20-01	240x320	262K	35.7x51.2x2.2	30.6x40.8	0.1275x0.1275	ST7789VW	SPI	-20~70°C	-30~80°C	12P	No	IPS
	2.4	Full color	UN204-02T	240x320	262K	42.72x60.26x3.75	36.72x48.96	0.153x0.153	IL9341/ ST7789V	SPI	-20~70°C	-30~80°C	18P	Yes/No	TN
		Full color	UN204-02	240x320	262K	42.72x60.26x2.30	36.72x48.96	0.153x0.153	IL9341V	SPI	-20~70°C	-30~80°C	18P	No	TN
		Full color	UN204-03T	240x320	262K	42.72x60.26x3.75	36.72x48.96	0.153x0.153	IL9341/ ST7789V	SPI	-20~70°C	-30~80°C	37P	Yes/No	TN
		Full color	UN204-04T	240x320	262K	42.72x60.26x3.75	36.72x48.96	0.153x0.153	IL9341/ ST7789V	MCU Parallel 8080 MCU Serial SPI	-20~70°C	-30~80°C	40P	Yes/No	TN
	2.8	Full color	UN208-02	240x320	262K	50.0x69.20x3.60	43.20x57.60	0.180x0.180	IL9341	SPI	-20~70°C	-30~80°C	18P	No	TN
		Full color	UN208-03T	240x320	262K	50.0x69.20x3.80	43.20x57.60	0.180x0.180	IL9341/ ST7789V	SPI	-20~70°C	-30~80°C	40P	Yes/No	TN
		Full color	UN208-04T	240x320	262K	50.0x69.20x3.80	43.20x57.60	0.180x0.180	ST7789V	SPI	-20~70°C	-30~80°C	18P	Yes/No	TN
	3.2	Full color	UN202-1	240x320	262K	54x77.4x3.75	48.6x64.8	0.153x0.153	IL9341/ ST7789V	SPI	-20~70°C	-30~80°C	18P	Yes/No	TN

TFT Module

Picture	Diagonal Screen Size	Color type	Model number	Resolutions	Color	Active area (mm)	Pixel size (mm)	Driver IC	Interface	Operating temperature	Storage Temperature	Pins	With Touch	Remark
	1.14	Full color	UN114-02	135x240	262K	14.864x24.912	0.1101x0.1038	ST7789V	4-wire SPI	-20°C~70°C	-30°C~80°C	8P	No	TN
	1.44	Full color	UN144-02M	128X128	65K	25.5x 26.5	0.198x0.198	ST7735S	SPI	-20°~40°	-30°~70°	7P	No	TN
	1.77	Full color	UN177-03	128X160	262K	28.03x35.04	0.219x0.219	ST7735S	SPI	-20~+70°C	-30~+80°C	7P	No	TN
	1.77(with SD card)	Full color	UN177-04	128X160	262K	28.03x35.04	0.219x0.219	ST7735S	SPI	-20~+70°C	-30~+80°C	8P	No	TN
	2	Full color	UN200-04	240x320	262K	30.6x40.8	0.1275x0.1275	ST7789V	SPI	-20~70°C	-30~80°C	7P	No	IPS
	2.4	Full color	UN204-03	240x320	262K	36.72x48.96	0.153x0.153	IL9341	SPI	-20~70°C	-30~80°C	7P	No	TN



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