

10.1" inch 1024x600 TFT LCD Display with capacitive touch

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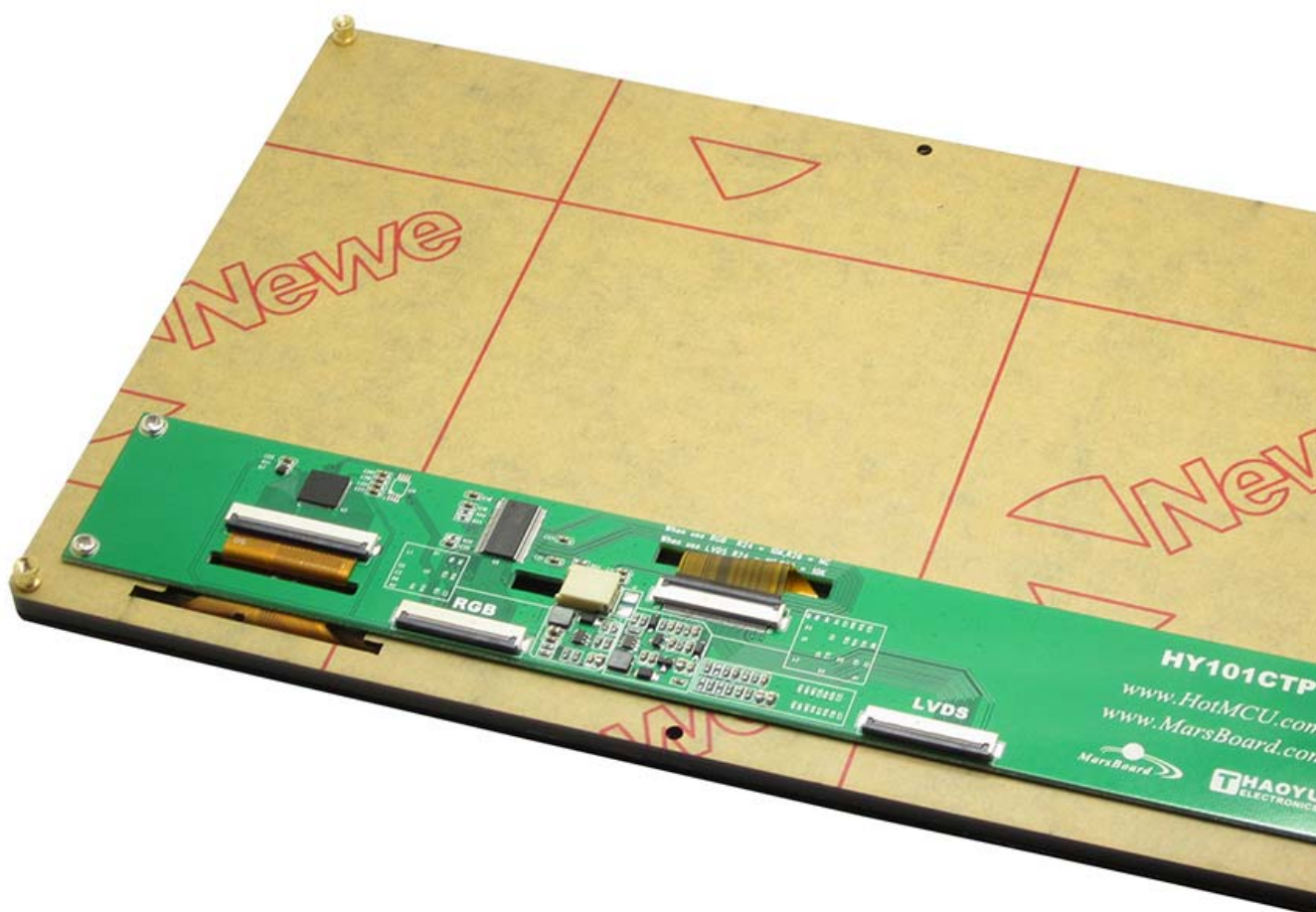
Description

The HY101CTP 10.1 inch LCD Module is designed to work with HAOYU Electronics's ARM de and MarsBoard's single board computers. It has one 10.1 inch TFT LCD including capacitive t 1024 by 600 pixels resolution.

Features

LCD size	10.1 inch(Diagonal)
Touch Screen Controller	FT5406
LCD Type	TFT
Resolution	1024 x 3 (RGB) x 600
Backlight	LED
Interface type	RGB
	LVDS
Active area	222.72 x 125.28 mm





RGB Pin Assignment

PIN NO	Symbol	I/O	Function
1	BLVDD	Power	Backlight power supply connect 5V
2	BLVDD	Power	Backlight power supply connect 5V
3	GND	Power	Power ground
4	VDD	Power	Power supply voltage connect 3.3V
5	R0	Input	Red data (LSB)
6	R1	Input	Red data
7	R2	Input	Red data
8	R3	Input	Red data
9	R4	Input	Red data
10	R5	Input	Red data
11	R6	Input	Red data
12	R7	Input	Red data (MSB)
13	G0	Input	Green data (LSB)
14	G1	Input	Green data
15	G2	Input	Green data
16	G3	Input	Green data

17	G4	Input	Green data
18	G5	Input	Green data
19	G6	Input	Green data
20	G7	Input	Green data (MSB)
21	B0	Input	Blue data (LSB)
22	B1	Input	Blue data
23	B2	Input	Blue data
24	B3	Input	Blue data
25	B4	Input	Blue data
26	B5	Input	Blue data
27	B6	Input	Blue data
28	B7	Input	Blue data (MSB)
29	GND	Power	Power ground
30	PCLK	Input	Pixel clock
31	LCD-BL-EN	Input	LCD backlight on/off, On=1; Off = 0;
32	HSYNC	Input	Horizontal Sync Signal
33	VSYNC	Input	Vertical Sync Signal
34	DE	Input	Data Enable
35	LCD-BL-ADJ	Input	LCD backlight Control (PWM control)
36	GND	Power	Power ground
37	CTP-SDA	Input/Output	CTP I2C SDA
38	CTP-SCL	Input	CTP I2C SCL
39	CTP-RST	Input	CTP Reset input
40	CTP-INT	Output	CTP Interrupt output

LVDS Pin Assignment

PIN NO	Symbol	I/O	Function
1	BL3-VDD_5V	Power	Backlight power supply connect 5V
2	BL2-VDD_5V	Power	Backlight power supply connect 5V
3	BL1-VDD_5V	Power	Backlight power supply connect 5V
4	NC		No Connector
5	LCD-BL-EN	Input	LCD backlight on/off, On=1;Off = 0;
6	LCD-BL-ADJ	Input	LCD PWM backlight control
7	NC		No Connector
8	BL3-GND	Power	Backlight Power ground
9	BL2-GND	Power	Backlight Power ground
10	BL1-GND	Power	Backlight Power ground
11	CTP-RST	Input	CTP reset input
12	CTP-INT	Output	CTP interrupt output
13	GND7	Power	Power ground
14	NC		No Connector
15	NC		No Connector
16	GND6	Power	Power ground
17	NC		No Connector
18	NC		No Connector
19	GND5	Power	Power ground
20	LVDS-D3P	Input	LVDS differential data input
21	LVDS-D3N	Input	LVDS differential data input

22	GND4	Power	Power ground
23	LVDS-CLKP	Input	LVDS differential clock input
24	LVDS-CLKN	Input	LVDS differential clock input
25	GND3	Power	Power voltage connect 3.3V
26	LVDS-D2P	Input	LVDS differential data input
27	LVDS-D2N	Input	LVDS differential data input
28	GND2	Power	Power ground
29	LVDS-D1P	Input	LVDS differential data input
30	LVDS-D1N	Input	LVDS differential data input
31	GND1	Power	Power ground
32	LVDS-D0P	Input	LVDS differential data input
33	LVDS-D0N	Input	LVDS differential data input
34	CTP-SDA	Input/Output	CTP I2C SDA
35	CTP-SCL	Input	CTP I2C SCL
36	NC		No Connector
37	VDD3	Power	Power voltage connect 3.3V
38	VDD2	Power	Power voltage connect 3.3V
39	VDD1	Power	Power voltage connect 3.3V
40	NC		No Connector

Hardware Specifications

RGB signal interface is compatible with HY050CTP-HD, HY070CTP, HY070CTP-HD, LVDS signal interface is different with HY070CTP-HD.

Software Specifications

LCD display timing is compatible with HY070CTP-HD, capacitive touch driver compatible with HY070CTP, HY070CTP-HD, but HY101CTP capacitive touch Y axis polarity different with HYC

Package content

- 1 x HY101CTP
- 1 x 40 pin connect cable

Documents

[HY101CTP LCD DataSheet.pdf](#)
[ft5x06 source code application and LCD Timing](#)
[FT5x06 DataSheet V4.0.pdf](#)
[HY101CTP Dimension.dxf](#)
[HY_LCD_Reference Design.pdf](#)

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