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MRB3205

3.2in LCD module, 240x320, 16bit, ILI9341, touch, SD card socket

HESTORE Part no.: 100.403.17



Technical specifications

Display Color	16BIT RGB 65K color
SKU	MRB3205
Screen Size	3.2"
Screen Type	TFT
Driver IC	ILI9341
Resolution	320 x 240 (Pixel)
Module Interface	8bit or 16bit parallel interface
Active Area	48.6 x 64.8mm
Touch Screen Type	resistive touch screen
Touch IC	XPT2046
Module PCB Size	57.60 x 90.73mm
Operating Temperature	-20°C...60°C
Storage Temperature	-30°C...70°C
Operating Voltage	3.3V / 5V
Power Consumption	TBD

Interface Definition



The red box in the left figure is the 8-bit/16-bit data bus mode switch, which is described as follows:

Solder **R16** with 0Ω resistor or short circuit directly, and disconnect **R8**: select **16-bit** data bus mode (default), use **DB0~DB15** data pin

Solder **R8** with 0Ω resistor or short circuit directly, and disconnect **R16**: select **8-bit** data bus mode, use **DB8~DB15** data pin

Number	Pin Label	Description
1	CS	LCD reset control pin(low level enable)
2	RS	LCD register / data selection control pin(high level: register, low level: data)
3	WR	LCD write control pin
4	RD	LCD read control pin
5	RST	LCD reset control pin(low level reset)
6	DB0	LCD data bus low 8-bit pin(When 8-bit parallel data bus mode is selected, the lower 8-bit data pins are not used)
7	DB1	
8	DB2	
9	DB3	
10	DB4	
11	DB5	
12	DB6	
13	DB7	
14	DB8	LCD data bus high 8-bit pin
15	DB9	
16	DB10	
17	DB11	
18	DB12	
19	DB13	
20	DB14	
21	DB15	
22	SDCS	SD card selection control pin (used when using the SD card expansion function, this test program is not used)
23	BL	LCD backlight control pin(High level light)
24	VDD	Module power positive pin (module has integrated voltage regulator IC, so the power supply can be connected to 5V or 3.3V)
25	VDD	
26	GND	Module power ground pin
27	GND	
28	NC	Undefined, reserved
29	MISO	Touch screen SPI bus data input pin
30	MOSI	Touch screen SPI bus data output pin
31	PEN	Touch screen interrupt detection pin(Low level when a touch occurs)
32	F_CS	Flash chip select control pin (used when using the Flash extension function, this test program is not used)
33	T_CS	Touch screen IC chip select control pin(Low level enable)
34	CLK	Touch screen SPI bus clock control pin

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