

3.2 inch 320*240 DOTS Multicolor Graphic LCD, with touch screen and stand-alone controllers



Key Parameters

LCD Controller	ILI9325
Touch Screen Controller	XPT2046
LCD Type	TFT
LCD Interface	16-bit parallel
Touch Screen Interface	SPI
Backlight	LED
Colors	65536
Resolution	320*240 DOTS

Photos



Interface

Note : this product should work with MCUs with 2.2V~3.6V IO voltage ONLY.

PIN NO.	SYMBOL	DESCRIPTION	FUNCTION
1	5V	5V power supply	When powered from 5V supply,

			Pin 1 & Pin 2 as power input, Pin 33 & Pin 34 provide 3.3V output. GND
2	GND	Ground	GND
3	D0		
4	D1		
5	D2		
6	D3		
7	D4		
8	D5		
9	D6		
10	D7	Data pin	D0-D15
11	D8		
12	D9		
13	D10		
14	D11		
15	D12		
16	D13		
17	D14		
18	D15		
19	CS	LCD chip select	Low active
20	RS	Instruction/Data register selection	RS = 1 : Data Register RS = 0 : Instruction Register
21	WR	Write	WR = 0, RD = 1
22	RD	Read	WR = 1, RD = 0
23	RESET	Reset the controller chip	Low active
24	NC	Not connect	Not connect
25	BLVCC	5V or 3.3V	Backlight VCC
26	BLGND	Ground	Backlight GND
27	BLCNT	Backlight brightness adjustment	Control the backlight brightness via PWM
28	TP_IRQ	Touch screen interrupt	Low level while the touch screen detects pressing
29	TP_CS	Touch screen chip select	Low active
30	TP_SCK	Touch screen SPI clock	connects to SPI SCK
31	TP_SI	Touch screen data input	connects to SPI MOSI
32	TP_SO	Touch screen data output	connects to SPI MISO
33	3.3V	3.3V power supply	When powered from 3.3V supply, Pin 33 & Pin 34 as power input, Pin 1 & Pin 2 keep NC.
34	GND	Ground	

Downloads

Development resources: schematic, code, datasheets, etc.

Wiki: [www.waveshare.com/wiki/3.2inch_320x240_Touch_LCD_\(C\)](http://www.waveshare.com/wiki/3.2inch_320x240_Touch_LCD_(C))

External Dimension

