

7 inch 1024*600 Multicolor Graphic LCD, with capacitive touch screen and stand-alone touch controller



Key Parameters

LCD Type	TFT
Interface	RGB/LVDS
Touch Controller	FT5206GE1
Touch Panel Type	Capacitive (5 multi-touch)
Backlight	LED
Display Size (mm)	153.6 (W) × 90.0 (H)
Dot Pitch (mm)	0.05 (W) × 0.15 (H)
Aspect Ratio	8 : 5
Resolution	1024 × 3(RGB) x 600 (Pixel)
Power Consumption	TBD
Backlight Current	TBD
Operating Temp. (°C)	0 ~ +70

RGB Interface Definition

PIN NO.	SYMBOL	DESCRIPTION	Type	FUNCTION
1	BL_VDD	Power positive	Power	Backlight power, connects to 5V power supply
2	BL_VDD			
3	GND	Ground		GND
4	VDD	Power positive		Connects to 3.3V power supply
5	R0			
6	R1			
7	R2			
8	R3	Data pin	Input	Red data
9	R4			
10	R5			
11	R6			

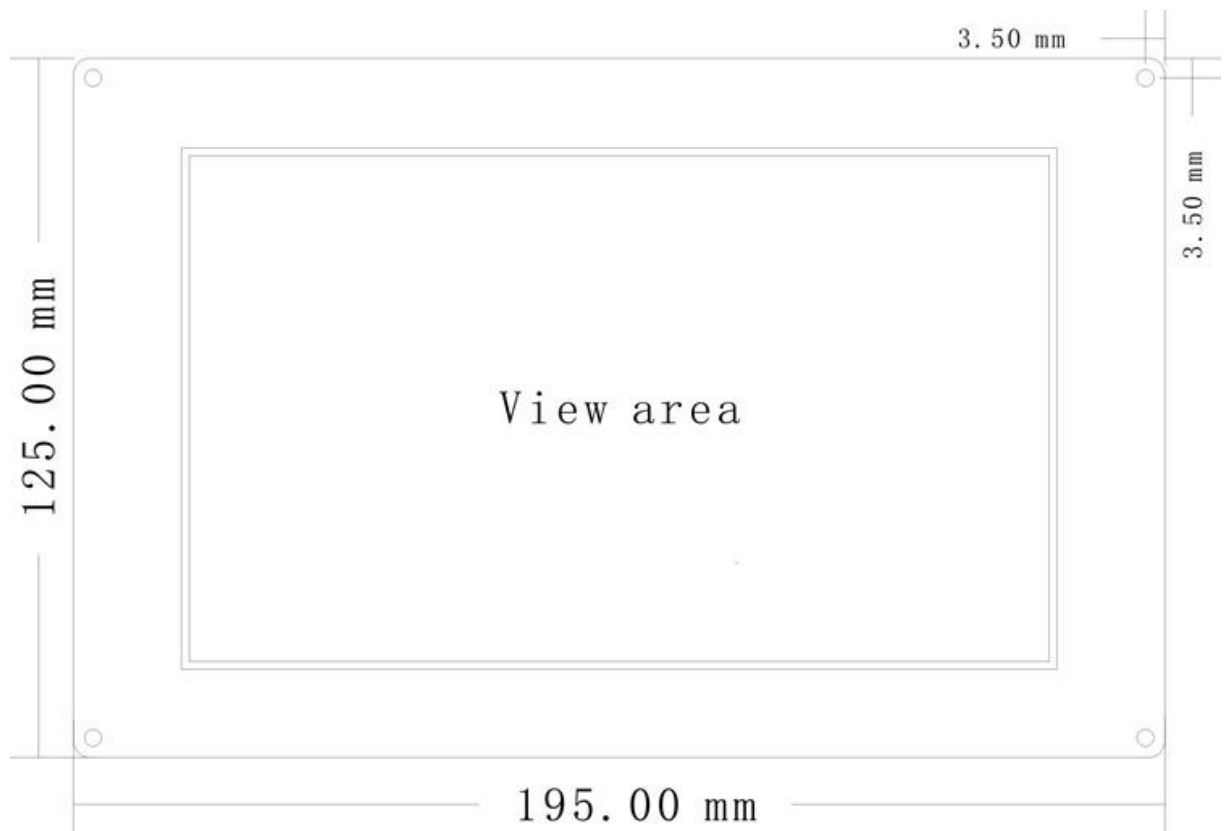
12	R7				
13	G0				
14	G1				
15	G2				
16	G3	Data pin	Input	Green data	
17	G4				
18	G5				
19	G6				
20	G7				
21	B0				
22	B1				
23	B2				
24	B3	Data pin	Input	Blue data	
25	B4				
26	B5				
27	B6				
28	B7				
29	GND	Ground	Power	GND	
30	DCLK	LCD clock	Input	LCD clock signal	
31	DISP	Backlight control enable	Input	Connects to VDD	
32	HSYNC	Horizontal Synchronization	Input	Horizontal Synchronization signal input	
33	VSYNC	Vertical Synchronization	Input	Vertical Synchronization signal input	
34	DE	Control mode selection	Input	DE = 0 : SYNC mode DE = 1 : DE mode	
35	PWM	Backlight brightness adjustment	Input	PWM signal for adjusting backlight	
36	GND	Ground	Power	GND	
37	I2C_SDA	I2C data	Input/Output	I2C data pin, read/write data	
38	I2C_SCL	I2C clock	Input	I2C clock pin	
39	CAP_WAKE	WAKEUP	Output	Wakeup external TP controller	
40	CAP_INT	Interrupt	Output	External touch interrupt	

LVDS Interface Definition

PIN NO.	SYMBOL	DESCRIPTION	Type	FUNCTION
1	NC			
2	VDD			
3	VDD	Power positive		Connects to 3.3V power supply
4	VDD		Power	
5	GND			
6	GND	Ground		GND

7	GND				
8	LVDS-D0N	Data pin	Input	Differential data input	
9	LVDS-D0P				
10	GND	Ground	Power	GND	
11	LVDS-D1N	Data pin	Input	Differential data input	
12	LVDS-D1P				
13	GND	Ground	Power	GND	
14	LVDS-D2N	Data pin	Input	Differential data input	
15	LVDS-D2P				
16	GND	Ground	Power	GND	
17	LVDS-CLKN	Clock pin	Input	Differential clock input	
18	LVDS-CLKP				
19	GND	Ground	Power	GND	
20	LVDS-D3N	Data pin	Input	Differential data input	
21	LVDS-D3P				
22	GND	Ground	Power	GND	
23	NC				
24	NC				
25	GND	Ground	Power	GND	
26	I2C_SDA	I2C data	Input/Output	I2C data pin, read/write data	
27	I2C_SCL	I2C clock	Input	I2C clock pin	
28	CAP_WAKE	WAKEUP	Output	Wakeup external TP controller	
29	CAP_INT	Interrupt	Output	External touch interrupt	
30	GND	Ground	Power	GND	
31	BL_GND				
32	BL_GND	Ground	Power	Backlight reference ground, connects to GND	
33	BL_GND				
34	NC				
35	PWM	Backlight brightness adjustment	Input	PWM signal for adjusting backlight	
36	DISP	Backlight control enable	Input	Connects to VDD	
37	NC				
38	BL_VDD	Power positive	Power	Backlight power, connects to 5V power supply	

External Dimension



Development Resources

Wiki : [www.waveshare.com/wiki/7inch_Capacitive_Touch_LCD_\(D\)](http://www.waveshare.com/wiki/7inch_Capacitive_Touch_LCD_(D))