

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFN02760A2A0YWDNN00

General Specifications

- Size: 2.76 inch
- Dot Matrix: 480 x RGB x 480 (TFT) dots
- Module dimension: 73.03 x 76.48 x 2.34 mm
- Active area: 70.128 x 70.128 mm
- Pixel pitch: 0.1461 X 0.1461 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 85/85/85/85
- TFT Interface: 3W SPI + RGB18bit
- Backlight Type: LED ,Normally White
- TFT Driver IC: ST7701
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

Interface

LCM PIN Definition

Match connector: XF2M-4015-1A (OMRON)

Pin No	Symbol	I/O	Description
1	VLED+	P	LED ANODE
2	VLED1-	P	LED1 CATHODE
3	VLED2-	P	LED2 CATHODE
4	GND	P	Ground
5	VCI	P	Power supply
6	RESET	I	Reset Signal ,Active Low
7	NC	-	NC
8	NC	-	NC
9	SDA	I	SPI Data signal
10	SCK	I	SPI Clock signal
11	CS	I	SPI Chip select signal
12	PCLK	I	RGB dot clock signal
13	DE	I	RGB data enable signal
14	VSYNC	I	RGB frame synchronizing signal
15	HSYNC	I	RGB line synchronizing signal
16~33	DB0~DB17	I	RGB data signal: DB0:BLUE LSB--DB5:BLUE MSB; DB6:GREEN LSB-- DB11:GREEN,MSB; DB12:RED LSB--DB17:RED MSB.
34	GND	P	Ground
35	NC	-	No connection
36	NC	-	No connection
37	NC	-	No connection
38	NC	-	No connection
39	NC	-	No connection
40	GND	P	Ground

I : Input, O : Output, P : Power/Ground

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating Conditions

Item	Symbol	Min.	Typ.	Max.	Unit	Remark	
Power supply Voltage	V _{CI}	2.7	3.0	3.3	V		
Input Signal Voltage	Low Level	V _{IL}	0	-	0.3 x V _{CI}	V	
	High Level	V _{IH}	0.7 x V _{CI}	-	V _{CI}	V	
Power supply Voltage	I _{VCI}	-	25	50	mA	V _{CI} =3.3V, color bar pattern	

LED Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
LED Current	-	-	80	100	mA
LED Voltage	V _{LED+}	-	6.4	6.8	V
LED Life Time	-	30000	-	-	Hr