RAYSTAR
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RFC350M-EIW-DRN

SPECIFICATION

General Specifications

- Size: 3.5 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 100(W) x 66.44(H) x 5.76 (D)(MAX) mm
- Active area: 70.08 x 52.56 mm
- Dot pitch: 0.219 x 0.073 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 4:3
- Backlight Type: LED,Normally White
- Interface: Uart 19200 Baud rate/SPI
- With /Without TP: Without TP
- Surface: Anti-Glare

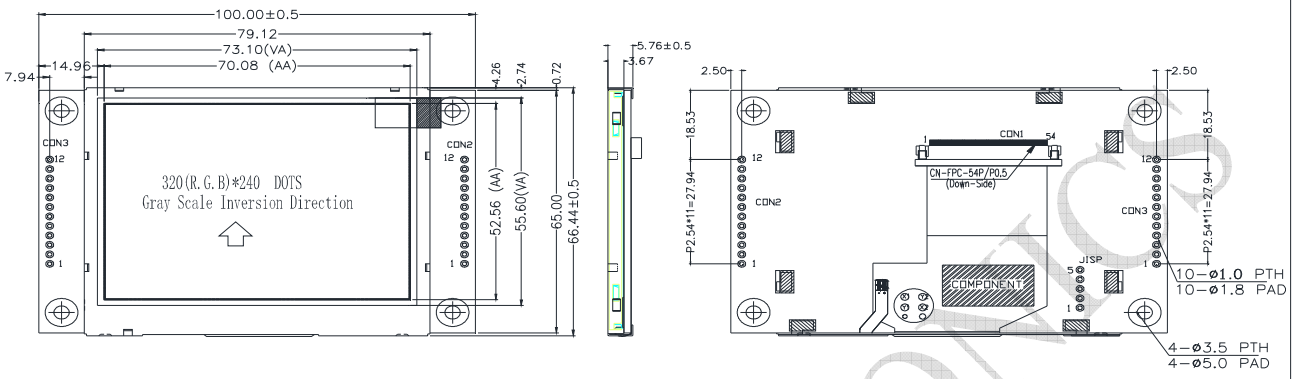
*Color tone slight changed by temperature and driving voltage

Interface

CON 2			
Pin	**Symbol**	**I/O**	**Function**
1	GND	Power Supply	Power Ground
2	TX	O	Uart Transmit pin
3	RX	I	Uart Receive pin
4	VBUS	Power Supply	Power supply : 5V
5	D+	I/O	USB Data +
6	D-	I/O	USB Data -
7	GND	Power Supply	Power Ground
8	/REST	I	Reset (active Low)
9	GND	Power Supply	Power Ground
10	PWM	O	Pulse width modulation
11	GND	Power Supply	Power Ground
12	VBUS	Power Supply	Power supply : 5V

CON 3			
Pin	**Symbol**	**I/O**	**Function**
1	GND	Power Supply	Power Ground
2	SW1	I	Switch (active low)
3	SW2	I	Switch (active low)
4	SW3	I	Switch (active low)
5	SW4	I	Switch (active low)
6	GND	Power Supply	Power Ground
7	SDI	I	Serial Data Input
8	SDO	O	Serial Data Output
9	SCK	I	Serial Clock
10	SCS	I	Serial Chip selection
11	SPI_INT	O	Serial Interrupt
12	VBUS	Power Supply	Power supply : 5V

Contour Drawing



CON2		CON3	
PIN	SYMBOL	PIN	SYMBOL
1	GND	1	GND
2	TX	2	SW1
3	RX	3	SW2
4	VBUS	4	SW3
5	D+	5	SW4
6	D−	6	GND
7	GND	7	SDI
8	NC	8	SDO
9	GND	9	SCK
10	PWM	10	SCS
11	GND	11	SPI_INT
12	VBUS	12	VBUS

The non-specified tolerance of dimension is ±0.3mm.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	–	+70	℃
Storage Temperature	TST	-30	–	+80	℃

Electrical Characteristics

Operating conditions

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	–	4.5	5	5.5	V
Supply Current For LCM	IDD	–	–	160	240	mA
Power Consumption	–	VDD=5V	–	800	1320	mW

LED driving conditions (LED Driver system build in)

Parameter	Symbol	Min	Typ	Max	Unit
LED current		–	20	–	mA
Power Consumption		348		408	mW
LED voltage	VBL+	17.4	–	20.4	V
LED Life Time		–	50,000	–	Hr