



RAYSTAR

RAYSTAR Optronics, Inc.
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RFH700M-EAW-LRN SPECIFICATION

General Specifications

- Size: 7.0 inch
- Dot Matrix: 1024 x RGB x 600 (TFT) dots
- Module dimension: 170.3(W) x 103.8 (H) x 20.15 (D) mm
- Active area: 154.2144 x 85.92 mm
- Dot pitch: 0.1506 x 0.1432 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 85/85/85/85
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- Interface: Uart 19200 Baud rate/SPI
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare
- Operating mode: Slave mode
- Flash Memory Size: 32M bits
- SD card format: FAT, exFAT

*Color tone slight changed by temperature and driving voltage

*SD format does not support NTFS

Interface

1. 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	5V	Power Supply	Power supply : 5V
5	D+	I/O	USB Data +
6	D-	I/O	USB Data -
7	GND	Power Supply	Power Ground
8	RST	I	Reset (active Low)
9	GND	Power Supply	Power Ground
10	PWM	O	Pulse width modulation
11	GND	Power Supply	Power Ground
12	5V	Power Supply	Power supply : 5V

2. 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	O	Master Input Slave Output (MISO)
8	SDO	I	Master Output Slave Input (MOSI)
9	SCK	I	Serial Clock
10	SCS	I	Serial Chip selection
11	SPI_INT	O	Serial Interrupt
12	5V	Power Supply	Power supply : 5V

3. USB_D

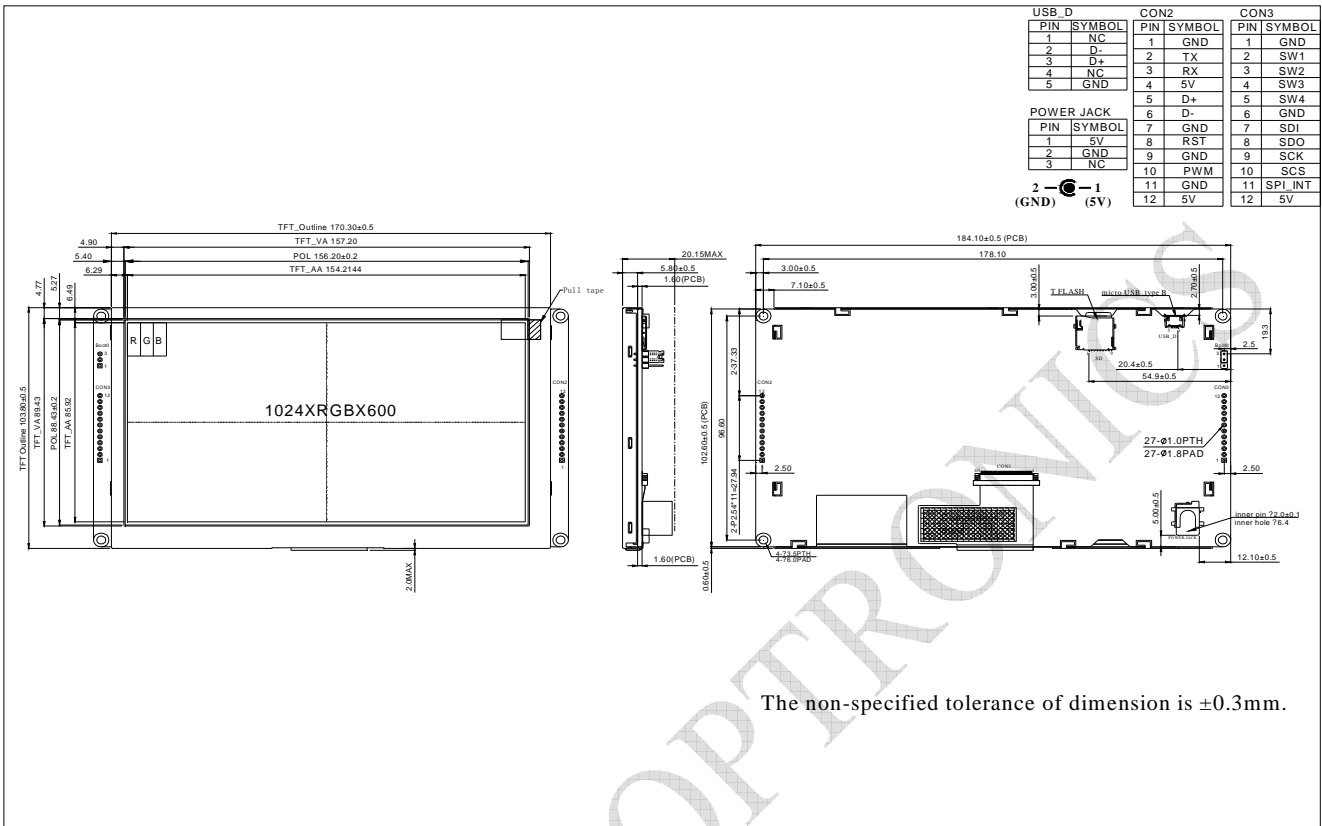
Pin	Symbol	Function
1	NC	No connection
2	D-	Data line -
3	D+	Data line +
4	NC	No connection
5	GND	Power Ground

4. POWER JACK

Pin	Symbol	Function
1	5V	Power Supply (5V)
2	GND	Ground
3	NC	No connection

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Contour Drawing



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

2 (GND) 1 (5V)

The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-10	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	+5V	—	4.5	5	5.5	V
Supply Current For LCM	—	—	—	1.46	2.19	A
Power Consumption	—	+5V	—	7.3	12.045	W