



RAYSTAR

RAYSTAR Optronics, Inc.
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RFH1010J-BYH-LNB

General Specifications

- Size: 10.1 inch
- Dot Matrix: 1024 RGB x 600 dots
- Module dimension: 235(W) x 143(H) x 22.43(D) mm
- Active area: 222.72 (H) x 125.28(V) mm
- Pixel pitch: 0.2175(W) x 0.2088(H) mm
- LCD type: TFT, Normally Black, Transmissive
- Interface: LVDS
- Driver IC: EK79001HN + EK73215BCGA
- Viewing Angle: 85/85/85/85 (IPS)
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- PCAP IC: ILI2511
- PCAP Interface: USB (I2C available)
- PCAP FW Version: V6.0.0.0.62.90.1.2
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface: Glare

Interface

TFT LCD MODULE

Pin No.	Symbol	Description
1-3	DC12V	Digital power
4	NC	No connection
5-7	GND	Digital ground
8	Rxin0-	Negative LVDS differential data inputs
9	Rxin0+	Positive LVDS differential data inputs
10	GND	Digital ground
11	Rxin1-	Negative LVDS differential data inputs
12	Rxin1+	Positive LVDS differential data inputs
13	GND	Digital ground
14	Rxin2-	Negative LVDS differential data inputs
15	Rxin2+	Positive LVDS differential data inputs
16	GND	Digital ground
17	RxCLK-	Negative LVDS differential clock inputs
18	RxCLK+	Positive LVDS differential clock inputs
19	GND	Digital ground
20	Rxin3-	Negative LVDS differential data inputs
21	Rxin3+	Positive LVDS differential data inputs
22	GND	Digital ground
23	LED_PWM	Backlight control signal
24	USB_DC5V	Power supply for CTP (USB type)
25	DC3V	Power supply for CTP (I2C Type)
26	USB_D+	Data + (CTP)
27	GND	Digital ground
28	SDA	I2C data input and output(CTP)
29	SCL	I2C clock input(CTP)
30	INT	External interrupt to the host(CTP)
31	RST	External Reset, Low is active(CTP)
32	GND	Digital ground
33	USB_D-	Data -(CTP)
34-43	NC	No connection

44-46	GND	Digital ground
47	NC	No connection
48-50	DC12V	Digital power

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1024 X RGB X 600

CTP zero point (0,0)

Black printing

2 MAX

4-R0.50

235.0±0.3 TFT OD

234.0 TP OD

224.72 TP AA

223.72 TP VA

222.72 AA

0.5±0.5 (5.94)

6.44±0.5

6.94

22.43 MAX (0.6)

8.78±0.6

5.05

Pull tape C=0.2

Lens T=1.8mm

233.8±0.5 (PCB)

28.66±0.5

28.0±0.5

112.0±0.5 (PCB)

CON1

CON2

Component area

CN-FPC-P0_5/50P (Down-side)

PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	DC12V	11	Rxin1-	21	Rxin3+	31	RST	41	NC
2	DC12V	12	Rxin1+	22	GND	32	GND	42	NC
3	DC12V	13	GND	23	LED_PWM	33	USB_D-	43	NC
4	NC	14	Rxin2-	24	USB_DC 5V	34	NC	44	GND
5	GND	15	Rxin2+	25	DC3V	35	NC	45	GND
6	GND	16	GND	26	USB_D+	36	NC	46	GND
7	GND	17	RxCCLK-	27	GND	37	NC	47	NC
8	Rxin0-	18	RxCCLK+	28	SDA	38	NC	48	DC12V
9	Rxin0+	19	GND	29	SCL	39	NC	49	DC12V
10	GND	20	Rxin3-	30	INT	40	NC	50	DC12V

CON2

CON1

Component area

CN-FPC-P0_5/50P (Down-side)

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

Absolute Maximum Ratings

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

Electrical Characteristics

Typical Operation Conditions (At Ta = 25 °C)

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM +12V	DC12V	—	12.0	—	V
Supply Current For LCM +12V	I _{DC12V}	—	650	980	mA
Supply Voltage For CTP(I2C)	DC3V	3.15	3.3	3.45	V
Supply Current For CTP(I2C)	I _{DC3V}	—	80	120	mA
Supply PCAP	USB_DC 5V	4.75	5.0	5.25	V
	I _{USB_DC 5V}	—	100	100	mA