



RAYSTAR

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司



曜凌光電股份有限公司 Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760

salescontact@raystar-optronics.com | www.raystar-optronics.com

RFK1010K-BYW-LNG

General Specifications

- Screen Diagonal: 10.1 inch
- Number of Pixels: 1280 x 3(R GB) x 800 dots
- Module dimension: 257.96 x 168.6 x 22.33 mm
- Active area: 216.96 (H) x 135.6(V) mm
- Pixel pitch: 0.1695 × 0.1695 mm
- Display Mode: Normally Black , Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Pixel Arrangement: R.G.B. Vertical Stripe
- Drive IC: EK79202B1
- Backlight Type: LED, Normally White
- Aspect Ratio: 16:10
- Interface: LVDS
- PCAP FW Version: 80
- PCAP IC: GT928
- PCAP Interface: I2C
- PCAP Resolution: 1280*800
- Touch Panel: With PCAP
- Surface: Glare

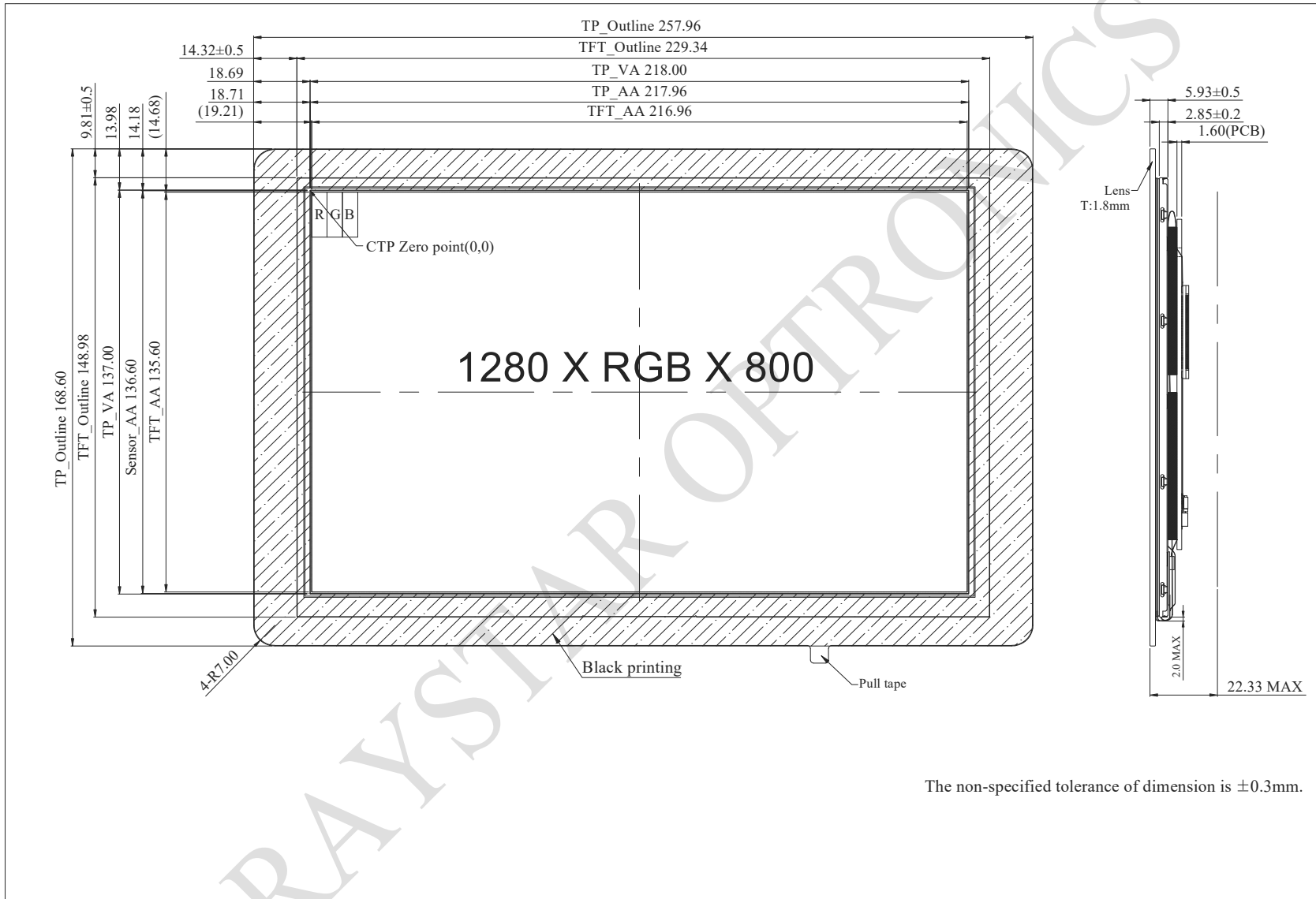
Interface

LCM PIN Definition

Pin No.	Symbol	I/O	Function
1	DC12V	P	Power Supply
2	DC12V	P	Power Supply
3	DC12V	P	Power Supply
4	NC	-	No connection
5	GND	P	Ground
6	GND	P	Ground
7	GND	P	Ground
8	Rxin0-	I	-LVDS Differential Data Input
9	Rxin0+	I	+LVDS Differential Data Input
10	GND	P	Ground
11	Rxin1-	I	-LVDS Differential Data Input
12	Rxin1+	I	+LVDS Differential Data Input
13	GND	P	Ground
14	Rxin2-	I	-LVDS Differential Data Input
15	Rxin2+	I	+LVDS Differential Data Input
16	GND	P	Ground
17	RxCLK-	I	-LVDS Differential Clock Input
18	RxCLK+	I	+LVDS Differential Clock Input
19	GND	P	Ground
20	Rxin3-	I	-LVDS Differential Data Input
21	Rxin3+	I	+LVDS Differential Data Input
22	GND	P	Ground
23	PWM		This pin is connected to the external LED driver. PWM type control signal for brightness of the LED backlight. If not used, please float this pin.
24	NC	-	No connection
25	DC3V	P	Power Supply
26	NC	-	No connection
27	GND	P	Ground
28	SDA	I/O	Serial communication data input.
29	SCL	I	Serial communication clock input

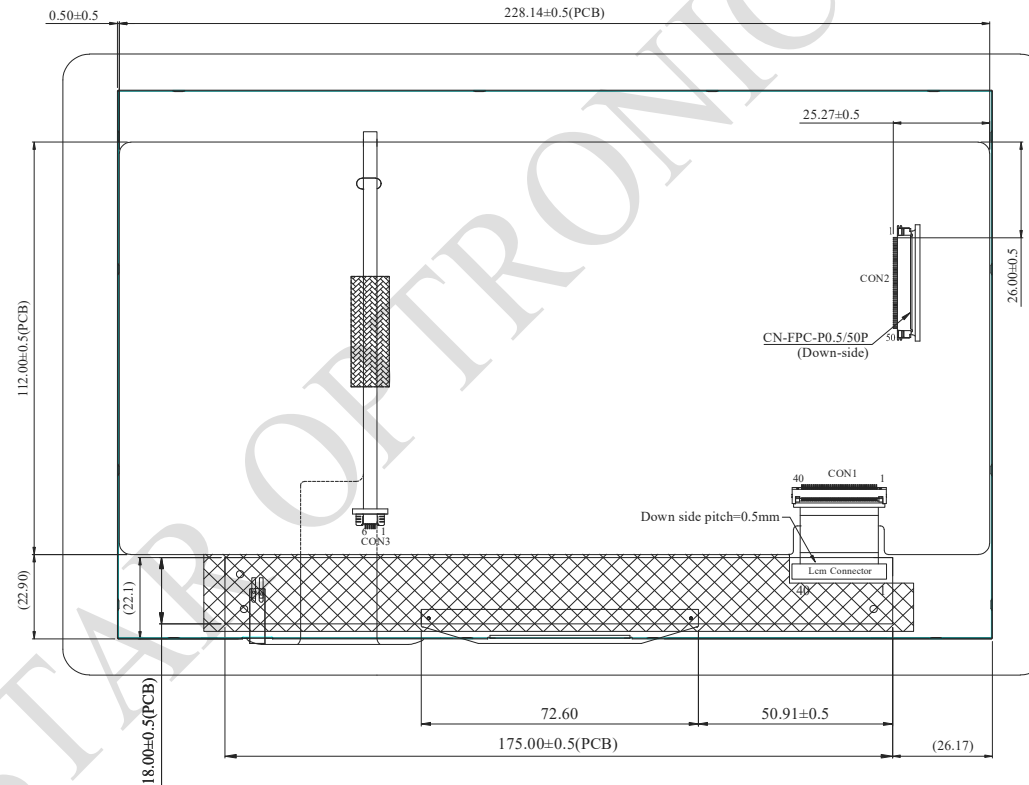
30	INT	O	External interrupt to the host
31	RST	I	External Reset, Low is active
32	GND	P	Ground
33~43	NC	-	No connection
44	GND	P	Ground
45	GND	P	Ground
46	GND	P	Ground
47	NC	-	No connection
48	DC12V	P	Power Supply
49	DC12V	P	Power Supply
50	DC12V	P	Power Supply

Contour Drawing



CON2

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



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

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

Item	Symbol	Values			Unit
		Min.	Typ.	MAX.	
Power voltage	DC12V	—	12.0	—	V
	IDC12V		260	390	mA
Supply CTP	VDDT	2.8	—	3.3	V
	IVDDT	—	14	21	mA