



RAYSTAR

RAYSTAR Optronics, Inc.
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RFK121AB-AXW-LNN

General Specifications

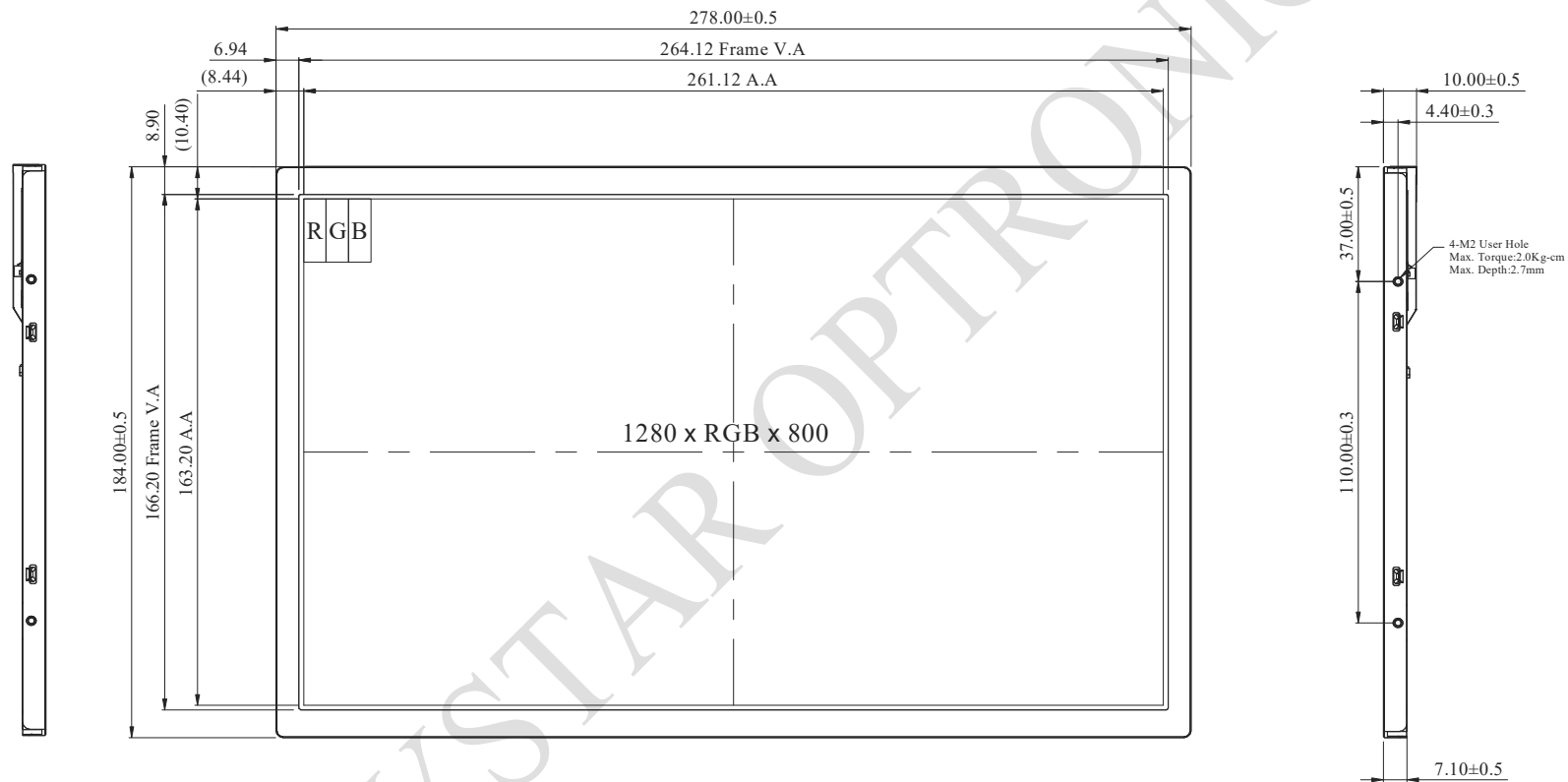
- Dot Matrix: 1280 x R.G.B. x 800 dots
- Module dimension: 278.0 x 184.0 x 10.0 mm
- Active area: 261.12 x 163.2 mm
- Pixel pitch: 0.204 x 0.204 mm
- LCD type: TFT, Normally Black, Transmissive
- Surface Treatment: AG type, 3H hard coating
- Backlight Type: LED, Normally White
- Interface: LVDS
- Aspect Ratio: 16:9
- Touch Panel: Without Touch Panel

Interface

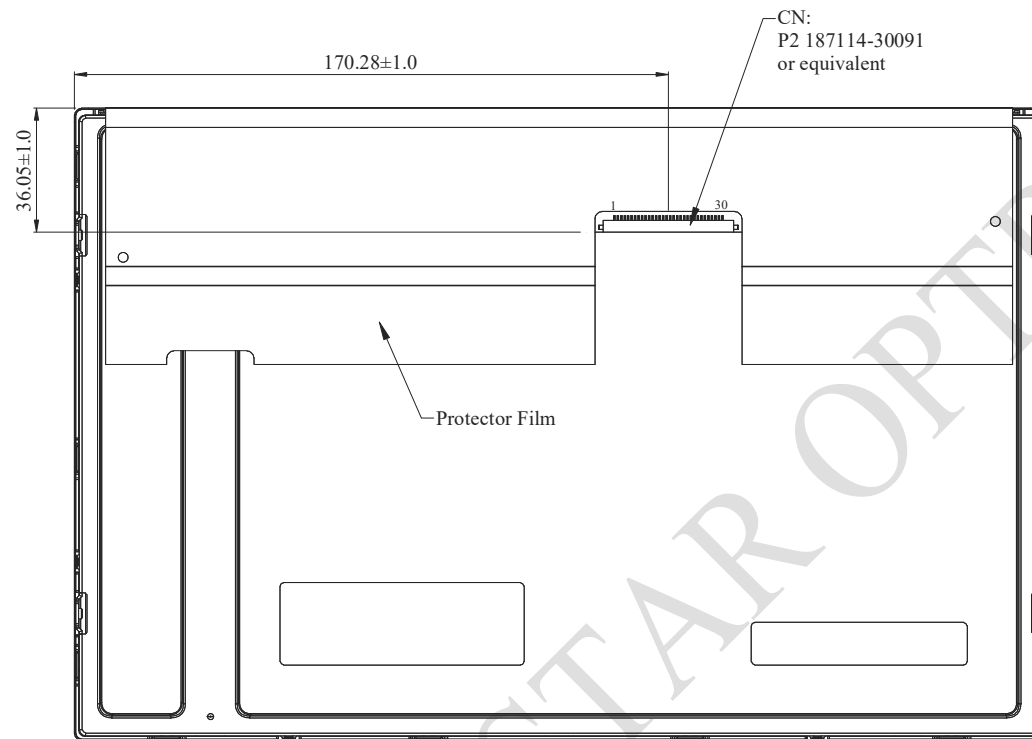
LCM PIN Definition

Pin No.	Symbol	Description
1	12V	LED power
2	12V	LED power
3	12V	LED power
4	12V	LED power
5	ENLED	Enable pin
6	Dimming	Backlight Adjust
7	GND	Ground
8	GND	Ground
9	VCC	Power supply: +3.3V
10	VCC	Power supply: +3.3V
11	GND	Ground
12	GND	Ground
13	RX0-	Negative transmission data of pixel 0
14	RX0+	Positive transmission data of pixel 0
15	GND	Ground
16	RX1-	Negative transmission data of pixel 1
17	RX1+	Positive transmission data of pixel 1
18	GND	Ground
19	RX2-	Negative transmission data of pixel 2
20	RX2+	Positive transmission data of pixel 2
21	GND	Ground
22	RXCLK-	Negative of clock
23	RXCLK+	Positive of clock
24	GND	Ground
25	RX3-	Negative transmission data of pixel 3
26	RX3+	Positive transmission data of pixel 3
27	GND	Ground
28	SEL6/8	LVDS 6/8 bit select function control, Low or NC → 6 bit Input Mode High → 8bit Input Mode
29	GND	Ground
30	GND	Ground

Contour Drawing



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



PIN NO.	SYMBOL
1	12V
2	12V
3	12V
4	12V
5	ENLED
6	Dimming
7	NC
8	NC
9	VCC
10	VCC
11	GND
12	GND
13	RX0-
14	RX0+
15	GND
16	RX1-
17	RX1+
18	GND
19	RX2-
20	RX2+
21	GND
22	RXCLK-
23	RXCLK+
24	GND
25	RX3-
26	RX3+
27	GND
28	SEL6/8
29	GND
30	NC

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	-20	—	+70	°C

Electrical Characteristics

LCD ELETRONICS SPECIFICATION

Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		V _{CC}	3.0	3.3	3.6	V
Permissive Ripple Voltage		V _{RP}	-	50	-	mV
Rush Current		I _{RUSH}	1.5			A
Initial Stage Current		I _{IS}	-	-	1.0	A
Power Supply Current	White	-	-	530	630	mA
	Black	-	-	350	420	mA
LVDS Differential Input High Threshold		V _{TH(LVDS)}	+100	-	-	mV
LVDS Differential Input Low Threshold		V _{TL(LVDS)}	-	-	-100	mV
LVDS Common Mode Voltage		V _{CM}	1.125	-	1.375	V
LVDS Differential Input Voltage		V _{ID}	100	-	600	mV
Terminating Resistor		R _T	-	100	-	Ohm