



RAYSTAR

RAYSTAR Optronics, Inc.  
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## RFF700A9-AWH-LNN

### SPECIFICATION

#### General Specifications

- Size: 7.0 inch
- Dot Matrix: 800 x RGB x 480(TFT) dots
- Module dimension: 165.8 (W) x 106.61 (H) x 6.5(D) mm
- Active area: 152.40 x 91.44 mm
- Pixel pitch: 0.1905 x 0.1905 mm
- LCD type: TFT, Normally Black, Transmissive
- View Direction: 80/80/80/80
- TFT Interface: LVDS
- TFT Driver IC: HX8249-A + HX8678-C or Equivalent
- Aspect Ratio: 15:9
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

\*Color tone slight changed by temperature and driving voltage.

# Interface

## 1. LCM PIN Definition

Pin	Symbol	Function									
1	VCC	Power voltage									
2	VCC	Power voltage									
3	GND	Power Ground									
4	GND	Power Ground									
5	LVD0N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
6	LVD0P										
7	GND	Power Ground									
8	LVD1N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
9	LVD1P										
10	GND	Power Ground									
11	LVD2N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
12	LVD2P										
13	GND	Power Ground									
14	LVDSCKN	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
15	LVDSCKP										
16	GND	Power Ground									
17	LVD3N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
18	LVD3P										
19	DINT	Input data format selection. Effective when FCS=1.									
		<table border="1"> <thead> <tr> <th>DINT</th> <th>Function</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8-bit</td> <td>Default</td> </tr> <tr> <td>0</td> <td>6-bit</td> <td>-</td> </tr> </tbody> </table>	DINT	Function	Note	1	8-bit	Default	0	6-bit	-
		DINT	Function	Note							
1	8-bit	Default									
0	6-bit	-									
20	SC	RL & TB Selection 1: Left to Right, Top to Bottom. (Default) 0: Right to Left, Bottom to Left.									

## 2. Backlight PIN Definition

Pin	Symbol	Description
1	VLED+	Red, LED_ Anode
2	VLED-	Black, LED_ Cathode



## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	°C
Storage Temperature	TST	-40	—	+85	°C

## Electrical Characteristics

### 1. Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	Vcc	2.7	3.3	3.6	V
Current of power supply	Icc	—	133	200	mA

### 2. LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	450	—	mA
LED voltage	A~K	8.1	9.3	10.2	V
LED Life Time	—	40000	—	—	Hr