

# RVT7.0A800480TFWN00

# LCD TFT Datasheet

Rev.1.3 2015-03-02

ITEM	CONTENTS	UNIT
LCD Type	TFT/Transmissive/Normally white	/
Size	7.0	Inch
Viewing Direction	12:00 (without image inversion)	O' Clock
Gray Scale Inversion Direction	6:00	O' Clock
LCM (W $\times$ H $\times$ D )	165.60 ×100.6 × 6.03	mm <sup>3</sup>
Active Area (W × H)	154.08 × 85.92	mm <sup>2</sup>
Dot Pitch (W × H)	0.1926 × 0.179	mm <sup>2</sup>
Number Of Dots	800 (RGB) × 480	/
Driver IC	HX8264+HX8664	/
Backlight Type	21 LEDs	/
Surface Luminance	400	cd/m <sup>2</sup>
Interface Type	24bit RGB	/
Color Depth	16.7M	/
Pixel Arrangement	RGB Vertical Stripe	/
Surface Treatment	Anti-glare	
Input Voltage	3.3	V
With/Without TSP	Without Touch Panel	/
Weight	193	g

Note 1: RoHS compliant

Note 2: LCM weight tolerance: ± 5%.



# **REVISION RECORD**

REVNO.	REVDATE	CONTENTS	REMARKS
1.0	2014-10-15	Initial Release	
1.1	2014-10-29	Add additional information on mechanical drawing	
1.2	2015-01-19	Update LED lifetime	
1.3	2015-03-02	Update Weight	

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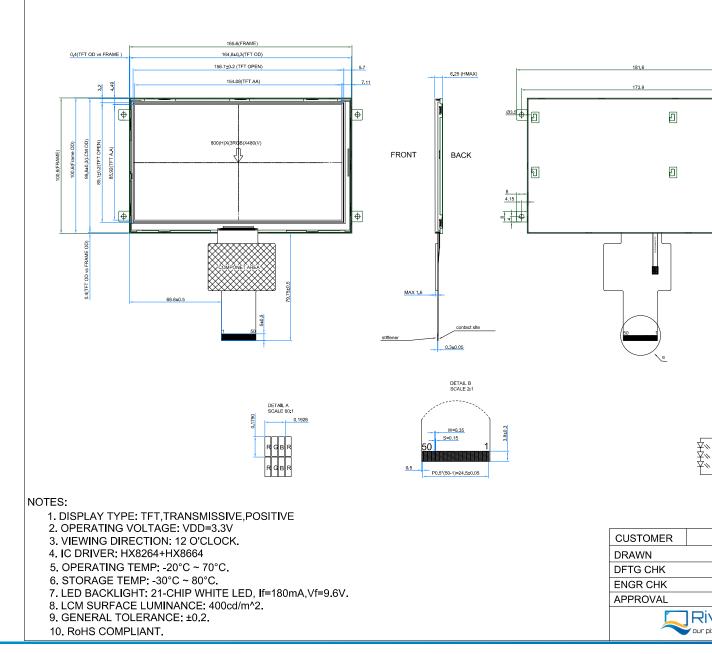


# 1. MODULE CLASSIFICATION INFORMATION

RV	Т	⊡.ר	A	800480	Т	F	W	Ν	00
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.

1.	BRAND	<b>RV</b> – Riverdi
2.	PRODUCT TYPE	T – TFT Standard <b>F – TFT Custom</b>
3.	DISPLAY SIZE	<b>3.5</b> – 3.5" <b>4.3</b> – 4.3" <b>5.7</b> – 5.7" <b>7.0 – 7.0"</b>
4.	MODEL SERIAL NO.	A-Z
5.	RESOLUTION	<b>320240</b> – 320x240 px <b>480272</b> – 480x272 px <b>800480 – 800x480 px</b>
6.	INTERFACE	T – TFT LCD, RGB L – TFT LCD, LVDS C – TFT + Controller
7.	FRAME	N – No Frame <b>F – Mounting Frame</b>
8.	BACKLIGHT TYPE	<b>W</b> – LED White
9.	TOUCH PANEL	<b>N – No Touch Panel</b> <b>R</b> – Resistive Touch Panel <b>C</b> – Capacitive Touch Panel
10.	VERSION	<b>00</b> (00-99)

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## 3. ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Supply Voltage For Logic	VDD	-0.3	5.0	V
LED reverse voltage (each LED)	VR	-	1.2	V
LED forward voltage (each LED)	IF	-	30	mA
Operating Temperature	Τορ	-20	70	°C
Storage Temperature	T <sub>ST</sub>	-30	80	°C

# 4. ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN	ΤΥΡ	MAX	UNIT
Power voltage	VDD	3.0	3.3	3.6	V
Input Current	IVDD	-	71.4	-	mA
Input Voltage ' H ' level	VIH	0.7VDD	-	VDD	V
Input Voltage ' L ' level	VIL	0	-	0.3VDD	V

# 5. BACKLIGHT CHARACTERISTICS

ITEM	SYMBOL	MIN	ΤΥΡ	MAX	UNIT
Voltage for LED backlight	VI	9.0	9.6	10.2	V
Current for LED backlight	h	170	180	200	mA
LED Life Time	-	30000	50000	-	Hrs

**Note:** The LED life time is defined as the module brightness decrease to 50% original brightness at Ta=25°C

# 6. ELECTRO-OPTICAL CHARACTERISTICS

ITEM		SYMBOL	CONDITION	MIN	ΤΥΡ	MAX	UNIT	REMARK	NOTE							
Response Ti	me	Tr+Tf		-	20	35	ms	Figure 1.	4							
Contrast Rat	tio	Cr	θ=0°	400	500	-		Figure 2.	1							
Luminance Uniformity		δ WHITE	Ø=0° Ta=25	70	75	-	%	Figure 2.	3							
Surface Lum	inance	Lv	-	-	400	-	cd/m <sup>2</sup>	Figure 2.	2							
			Ø = 90°	40	50	-	deg	Figure 3.								
		0	Ø = 270°	60	70	-	deg	Figure 3.								
Viewing Angl	Viewing Angle Range	ngle Range	θ	0	0	0	0	0	. 0	Ø = 0°	60	70	-	deg	Figure 3.	6
			Ø = 180°	60	70	-	deg	Figure 3.								
	Red	x		-	-	-										
		У	-	-	-	-										
CIE (x, y)	Green	x	θ=0°	-	-	-										
Chromatici ty		У	Ø=0°	-	-	-	Fi	gure 2.	5							
	Blue	x	та=25	-	-	-	rigure 2.									
		У	14 25	-	-	-										
	White	x		-	0.280	-										
		У		-	0.310	-										



**Note 1.** Contrast Ratio(CR) is defined mathematically as below, for more information see Figure 1.

Contrast Ratio =  $\frac{\text{Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Average Surface Luminance with all black pixels (P1, P2, P3, P4, P5)}}$ 

**Note 2.** Surface luminance is the LCD surface from the surface with all pixels displaying white. For more information see Figure 2.

Lv = Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)

**Note 3.** The uniformity in surface luminance  $\delta$  WHITE is determined by measuring luminance at each test position 1 through 5, and then dividing the maximum luminance of 5 points luminance by minimum luminance of 5 points luminance. For more information see Figure 2.

 $\delta \text{ WHITE } = \frac{\text{Minimum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Maximum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}$ 

**Note 4.** Response time is the time required for the display to transition from white to black (Rise Time, Tr) and from black to white (Decay Time, Tf). For additional information see Figure 1. The test equipment is Autronic-Melchers's ConoScope series.

**Note 5.** CIE (x, y) chromaticity, the x, y value is determined by measuring luminance at each test position 1 through 5, and then make average value.

**Note 6.** Viewing angle is the angle at which the contrast ratio is greater than 2. For TFT module the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD surface. For more information see Figure 3.

**Note 7.** For viewing angle and response time testing, the testing data is based on Autronic-Melchers's ConoScope series. Instruments for Contrast Ratio, Surface Luminance, Luminance Uniformity, CIE the test data is based on TOPCON's BM-5 photo detector.



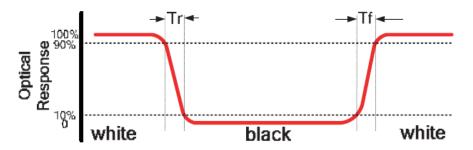




Figure 2.Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x,y) chromaticity

A : 5 mm B : 5 mm H,V : Active Area Light spot size  $\emptyset$ =5mm, 500mm distance from the LCD surface to detector lens measurement instrument is TOPCON's luminance meter BM-5

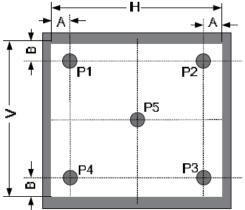
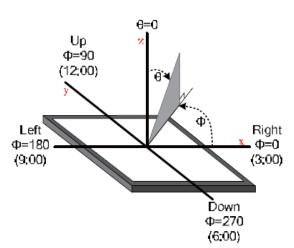


Figure 3. The definition of viewing angle



#### 7. INTERFACE DESCRIPTION

PIN NO.	SYMBOL	DESCRIPTION	REMARK
1	VLED+	Anode Of LED Backlight	
2	VLED+	Anode Of LED Backlight	
3	VLED-	Cathode Of LED Backlight	
4	VLED-	Cathode Of LED Backlight	
5	GND	Power Ground	
6	VDD	Power For Circuit	
7	VDD	Power For Circuit	
8	MODE	DE/SYNC Mode Select	Note 1
9	DE	Data Input Enable	
10	VSYNC	Vertical Sync Signal	
11	HSYNC	Horizontal Sync Signal	
12	B7	Blue Data (MSB)	
13	B6	Blue Data	
14	B5	Blue Data	
15	B4	Blue Data	
16	B3	Blue Data	
17	B2	Blue Data	

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19B0Blue Data (LSB)Note 220G7Green Data (MSB)	18	B1	Blue Data	Note 2
21G6Green Data22G5Green Data23G4Green Data24G3Green Data25G2Green Data26G1Green Data27G0Green Data (LSB)28R7Red Data (MSB)29R6Red Data30R5Red Data31R4Red Data32R3Red Data33R2Red Data34R1Red Data35R0Red Data36GNDPower Ground37DCLKClock For Input Data38GNDPower Ground39LRLeft / Right Selection40UDUp / Down Selection41VDDPower For Circuit42VDDPower For Circuit43NCNo Connection44RESETGlobal Reset Pin45NCNo Connection46NCNo Connection49NCNo Connection	19	BO	Blue Data (LSB)	Note 2
22G5Green DataImage: constraint of the system of the syst	20	G7	Green Data (MSB)	
2364Green Data24G3Green Data25G2Green Data26G1Green Data (LSB)27G0Green Data (LSB)28R7Red Data (MSB)29R6Red Data30R5Red Data31R4Red Data32R3Red Data33R2Red Data34R1Red Data35R0Red Data (LSB)36GNDPower Ground37DCLKClock For Input Data38GNDPower Ground39LRLeft / Right Selection40UDUp / Down Selection41VDDPower For Circuit43NCNo Connection44RESETGlobal Reset Pin45NCNo Connection46NCNo Connection47DITHBDithering Function49NCNo Connection	21	G6	Green Data	
24G3Green Data25G2Green DataNote 226G1Green Data (LSB)Note 227G0Green Data (LSB)Note 228R7Red Data (MSB)29R6Red Data30R5Red Data31R4Red Data32R3Red Data33R2Red Data34R1Red Data (LSB)Note 235R0Red Data (LSB)Note 236GNDPower Ground37DCLKClock For Input DataNote 338GNDPower Ground39LRLeft / Right SelectionNote 4,5,840UDUp / Down SelectionNote 4,5,941VDDPower For Circuit42VDDPower For Circuit44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	22	G5	Green Data	
25G2Green DataNote 226G1Green Data (LSB)Note 227G0Green Data (LSB)Note 228R7Red Data (MSB)29R6Red Data30R5Red Data31R4Red Data32R3Red Data34R1Red DataNote 235R0Red DataNote 236GNDPower Ground37DCLKClock For Input DataNote 338GNDPower Ground39LRLeft / Right SelectionNote 4,5,840UDUp / Down SelectionNote 4,5,941VDDPower For Circuit42VDDPower For Circuit44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	23	G4	Green Data	
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27G0Green Data (LSB)Note 228R7Red Data (MSB)	25	G2	Green Data	
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31R4Red Data32R3Red Data33R2Red Data34R1Red Data35R0Red Data (LSB)36GNDPower Ground37DCLKClock For Input DataNote 338GNDPower Ground39LRLeft / Right SelectionNote 4,5,840UDUp / Down SelectionNote 4,5,941VDDPower For Circuit42VDDPower For Circuit44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	29	R6	Red Data	
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33R2Red DataNote 234R1Red Data (LSB)Note 235R0Red Data (LSB)Note 236GNDPower Ground37DCLKClock For Input DataNote 338GNDPower Ground39LRLeft / Right SelectionNote 4,5,840UDUp / Down SelectionNote 4,5,941VDDPower For Circuit42VDDPower For Circuit43NCNo Connection44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	31	R4	Red Data	
34R1Red DataNote 235R0Red Data (LSB)Note 236GNDPower Ground37DCLKClock For Input DataNote 338GNDPower Ground39LRLeft / Right SelectionNote 4,5,840UDUp / Down SelectionNote 4,5,941VDDPower For Circuit42VDDPower For Circuit43NCNo Connection44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	32	R3	Red Data	
35R0Red Data (LSB)Note 236GNDPower GroundImage: Constraint of the section of the se	33	R2	Red Data	
36GNDPower GroundNote 337DCLKClock For Input DataNote 338GNDPower Ground	34	R1	Red Data	Note 2
37DCLKClock For Input DataNote 338GNDPower Ground	35	RO	Red Data (LSB)	Note 2
38GNDPower GroundImage: Second Secon	36	GND	Power Ground	
39LRLeft / Right SelectionNote 4,5,840UDUp / Down SelectionNote 4,5,941VDDPower For Circuit	37	DCLK	Clock For Input Data	Note 3
40UDUp / Down SelectionNote 4,5,941VDDPower For Circuit42VDDPower For Circuit43NCNo Connection44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	38	GND	Power Ground	
41VDDPower For CircuitImage: Comparison of Circuit42VDDPower For CircuitImage: Comparison of Circuit43NCNo ConnectionImage: Comparison of Circuit44RESETGlobal Reset PinNote 645NCNo ConnectionImage: Comparison of Circuit46NCNo ConnectionImage: Comparison of Circuit47DITHBDithering FunctionNote 748GNDPower GroundImage: Comparison of Circuit49NCNo ConnectionImage: Comparison of Circuit	39	LR	Left / Right Selection	Note 4,5,8
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43NCNo ConnectionImage: connection44RESETGlobal Reset PinNote 645NCNo ConnectionImage: connection46NCNo ConnectionImage: connection47DITHBDithering FunctionNote 748GNDPower GroundImage: connection49NCNo ConnectionImage: connection	41	VDD	Power For Circuit	
44RESETGlobal Reset PinNote 645NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	42	VDD	Power For Circuit	
45NCNo Connection46NCNo Connection47DITHBDithering FunctionNote 748GNDPower GroundImage: Connection49NCNo ConnectionImage: Connection	43	NC	No Connection	
46NCNo Connection47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	44	RESET	Global Reset Pin	Note 6
47DITHBDithering FunctionNote 748GNDPower Ground49NCNo Connection	45	NC	No Connection	
48 GND Power Ground   49 NC No Connection	46	NC	No Connection	
48 GND Power Ground   49 NC No Connection	47	DITHB	Dithering Function	Note 7
	48	GND		
50 NC No Connection	49	NC	No Connection	
	50	NC	No Connection	

**Note 1:** DE/SYNC mode select. Normally (Internally) pulled high.

When select DE mode, MODE="1", VS and HS must pull high.

When select SYNC mode, MODE="0", DE must be grounded.

Note 2: When input 18bit RGB data, the two low bits of R, G and B data must be grounded.

Note 3: Data shall be latched at the falling edge of DCLK.

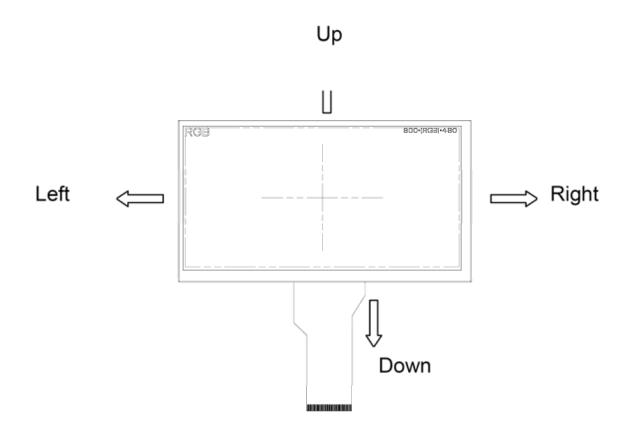
**Note 4:** Selection of scanning mode.

SET OF SCAN CON	ITROL INPUT	SCANNING DIRECTION	
UD	LR		
GND	VDD	Up To Down, Left To Right	
VDD	GND	Down To Up, Right To Left	
GND	GND	Up To Down, Right To Left	
VDD	VDD	Down To Up, Left To Right	



**Note 5:** Definition of scanning direction. Refer to the Figure 4.

Figure 4. Definition of scanning direction



**Note 6**: Global reset pin. Active low to enter reset state. Suggest to connect with an RC reset circuit for stability. Normally (internally) pulled high.

**Note 7:** Dithering function enable control, normally (internally) pull high. When DITHB="1", Disable internal dithering function, When DITHB="0", Enable internal dithering function,

Note 8: Normally (internally) pull high.

Note 9: Normally (internally) pull low.



#### 8. LCD TIMING CHARACTERISTICS

#### 8.1. Clock and data input time diagram

#### Figure 5. Horizontal input timing diagram

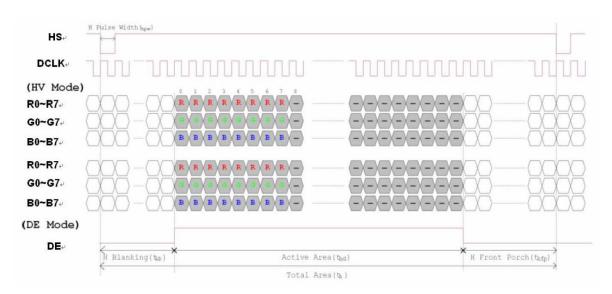
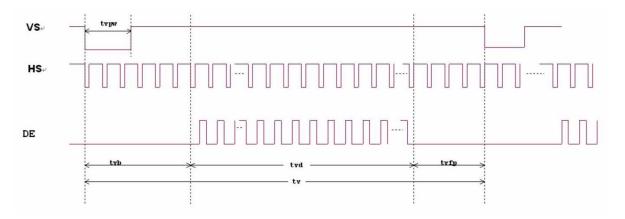


Figure 6. Vertical input timing diagram



#### 8.2. Parallel RGB input timing table

PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNIT
DCLK Frequency	Fclk	26.4	33.3	46.8	MHz
VSD Period Time	Τv	510	525	650	TH
VSD Display Area	Tvd	480		TH	
VSD Blanking	Tvb	23		TH	
VSD Front Porch	Tvfp	7	22	147	TH
VSD Pulse Width	Tvpw	1	-	20	TH
HSD Pulse Width	Thpw	1	-	40	DCLK
HSD Period Time	Th	862	1056	1200	DCLK
HSD Display Area	Thd	800		DCLK	
HSD Blanking	Thb	46 DCLK			
HSD Front Porch	Thfp	16	210	354	DCLK



## 9. RELIABILITY TEST

NO.	TEST ITEM	TEST CONDITION		
1	High Temperature Storage	80±2°C/240hours		
2	Low Temperature Storage	-30±2°C/240hours		
3	High Temperature Operating	70±2°C/240hours		
4	Low Temperature Operating	-20±2°C/240hours		
	Temperature Cycle	-30±2°C~25~80±2°C × 20 cycles		
5		(30min.) (5min.) (30min.)		
6	Damp Proof Test	60°C ±5°C × 90%RH/240hours		
7	Vibration Test	Frequency 10Hz~55Hz		
		Amplitude of vibration : 1.5mm		
		Sweep: 10Hz~55Hz~10Hz		
		X, Y, Z 2 hours for each direction.		
8	Package Vibration Test	Random vibration :0.15G*G/HZ from		
		5-200HZ,-6dB/Octave from 200-500HZ		
		of each direction of X.Y. Z		
		(6 hours for total)		
9	Package Drop Test	Height:60 cm		
		1 corner,3 edges,6 surfaces		
10	ESD Test	$\pm$ 2KV, Human body mode,100pF/1500 $\Omega$		
11	Mechanical Shock	100G 6ms, X, Y, Z 3 times for each		
		direction		



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