



RVT101HVLNWC00

## HB,IPS LVDS 10.1" LCD TFT DATASHEET

Rev.1.3  
2023-01-19

ITEM	CONTENTS	UNIT
LCD Type	TFT/Transmissive/Normally black/IPS	/
Size	10.1	Inch
Viewing Direction	Free	/
Outside Dimensions (W x H x D)	257.96 x 168.60 x 9.85	mm
Active Area (W x H)	216.96 x 135.60	mm
Pixel Pitch (W x H)	0.1695 x 0.1695	mm
Resolution	1280 (RGB) x 800	/
Brightness	800	cd/m <sup>2</sup>
LCD Interface Type	LVDS	/
Color Depth	16.7M	/
Pixel Arrangement	RGB Vertical Stripe	/
LCD Driver	EK79202B	/
With/Without Touch	With Projected Capacitive Touch Panel	/
CTP Driver	ILI2132A	/
Touch Interface Type	USB /I2C/ Optional UART	/
Weight	410	g

Note 1: RoHS3 compliant

Note 2: LCM weight tolerance:  $\pm 5\%$ .

## 1. REVISION RECORD

REV NO.	REV DATE	CONTENTS	REMARKS																								
1.0	2020-10-22	Initial Release																									
1.1	2021-05-26	Modify Electrical Specification and power on/off sequence Correction on touch IC PN																									
1.2	2021-07-28	Updating new template  Correcting the Operating/standby current From: <table><tr><td>Operating Current</td><td>I<sub>DD@1.3V</sub></td><td>-</td><td>15</td><td>20</td><td>mA</td></tr><tr><td>Standby Current</td><td>I<sub>ST</sub></td><td>-</td><td>-</td><td>250</td><td>uA</td></tr></table> To: <table><tr><td>Operating Current</td><td>I<sub>DD@1.3V</sub></td><td>-</td><td>280</td><td>420</td><td>mA</td></tr><tr><td>Standby Current</td><td>I<sub>ST</sub></td><td>-</td><td>1.5</td><td>2.0</td><td>mA</td></tr></table>	Operating Current	I <sub>DD@1.3V</sub>	-	15	20	mA	Standby Current	I <sub>ST</sub>	-	-	250	uA	Operating Current	I <sub>DD@1.3V</sub>	-	280	420	mA	Standby Current	I <sub>ST</sub>	-	1.5	2.0	mA	
Operating Current	I <sub>DD@1.3V</sub>	-	15	20	mA																						
Standby Current	I <sub>ST</sub>	-	-	250	uA																						
Operating Current	I <sub>DD@1.3V</sub>	-	280	420	mA																						
Standby Current	I <sub>ST</sub>	-	1.5	2.0	mA																						
1.3	2023-01-19	Modify DE signal: Active High																									



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### 3. MODULE CLASSIFICATION INFORMATION

RV	T	101	H	V	L	N	W	C	00
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.

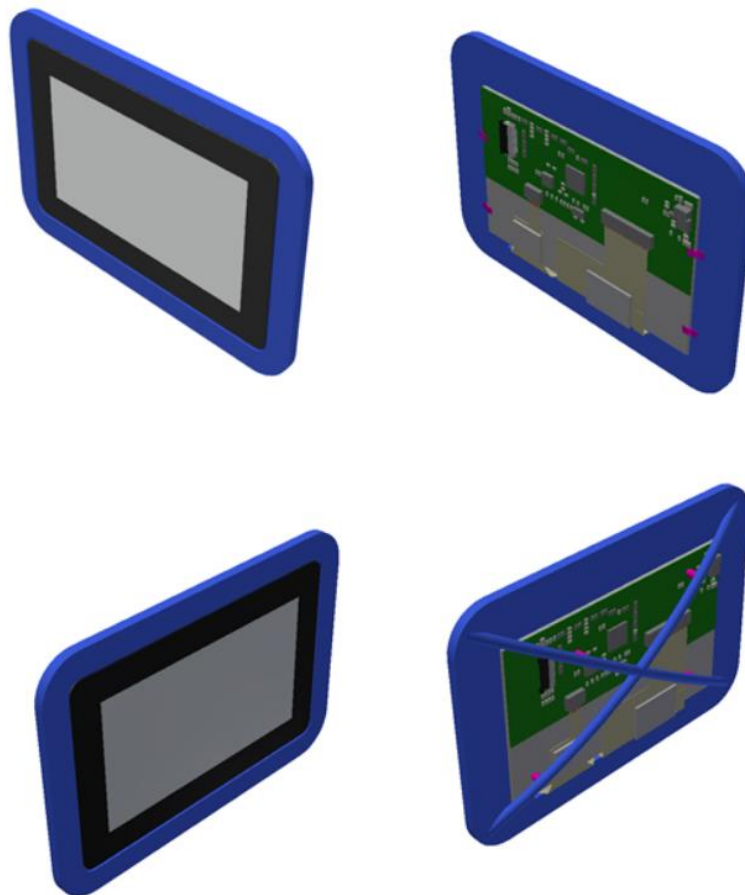
NO.	PARAMETER	SYMBOL
1.	BRAND	RV – Riverdi
2.	PRODUCT TYPE	T – TFT Standard
3.	DISPLAY SIZE	101 – 10.1"
4.	MODEL SERIAL NO.	H – High Brightness, IPS
5.	RESOLUTION	V – 1280 x 800 px
6.	INTERFACE	L – TFT LCD, LVDS
7.	FRAME	N – Without Mounting Metal Frame
8.	BACKLIGHT TYPE	W – LED White
9.	TOUCH PANEL	C – With Capacitive Touch Panel
10.	VERSION	00 – (00-99)

#### 4. uxTouch ASSEMBLY

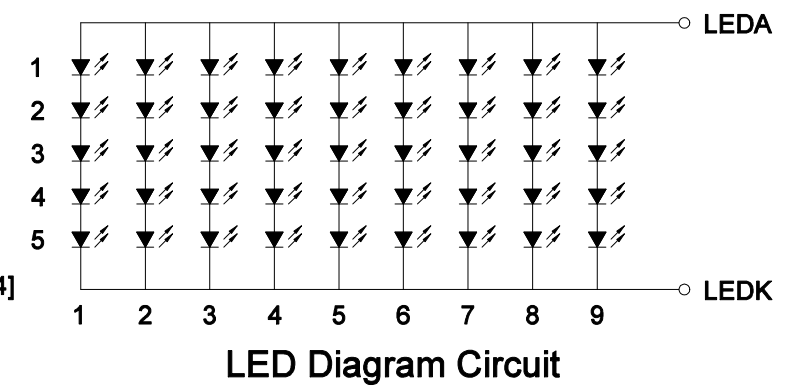
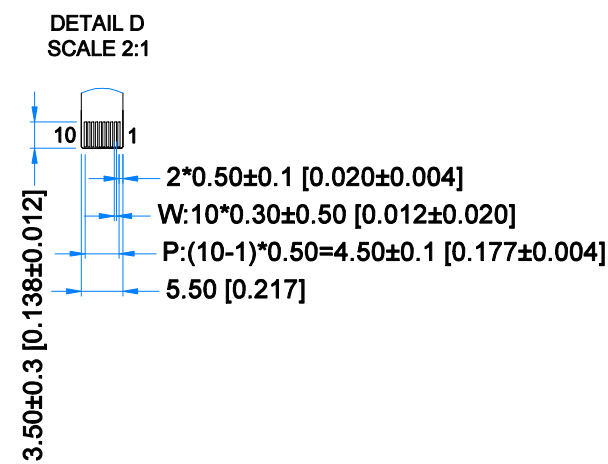
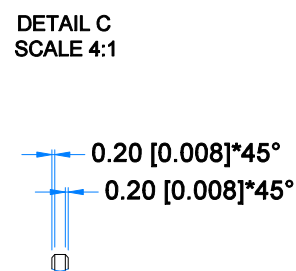
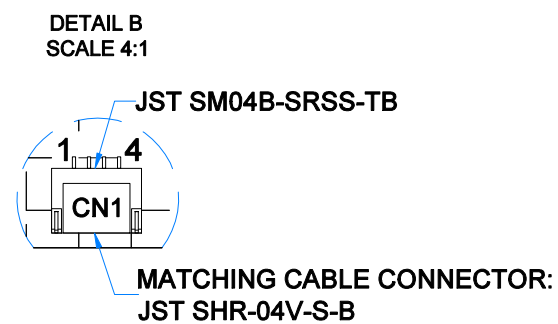
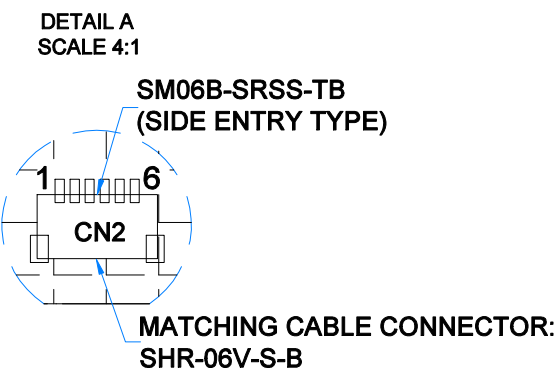
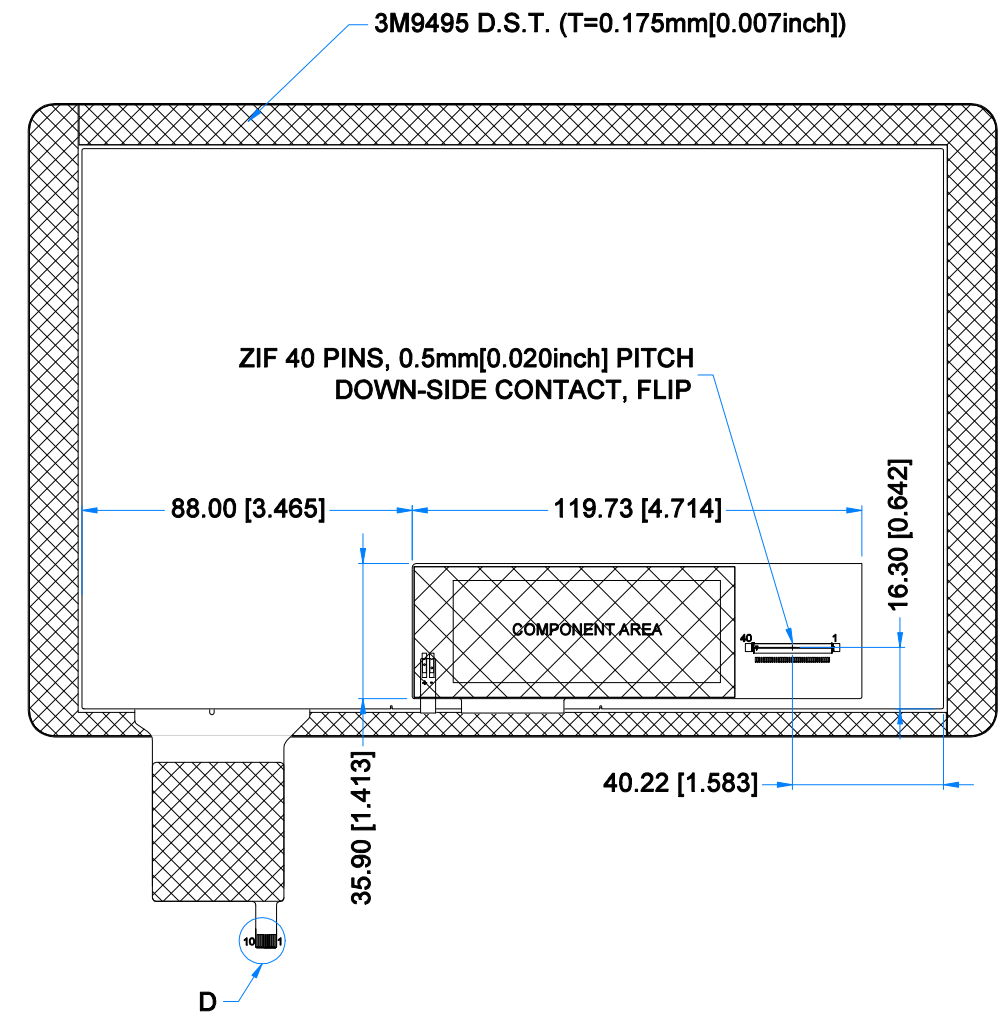
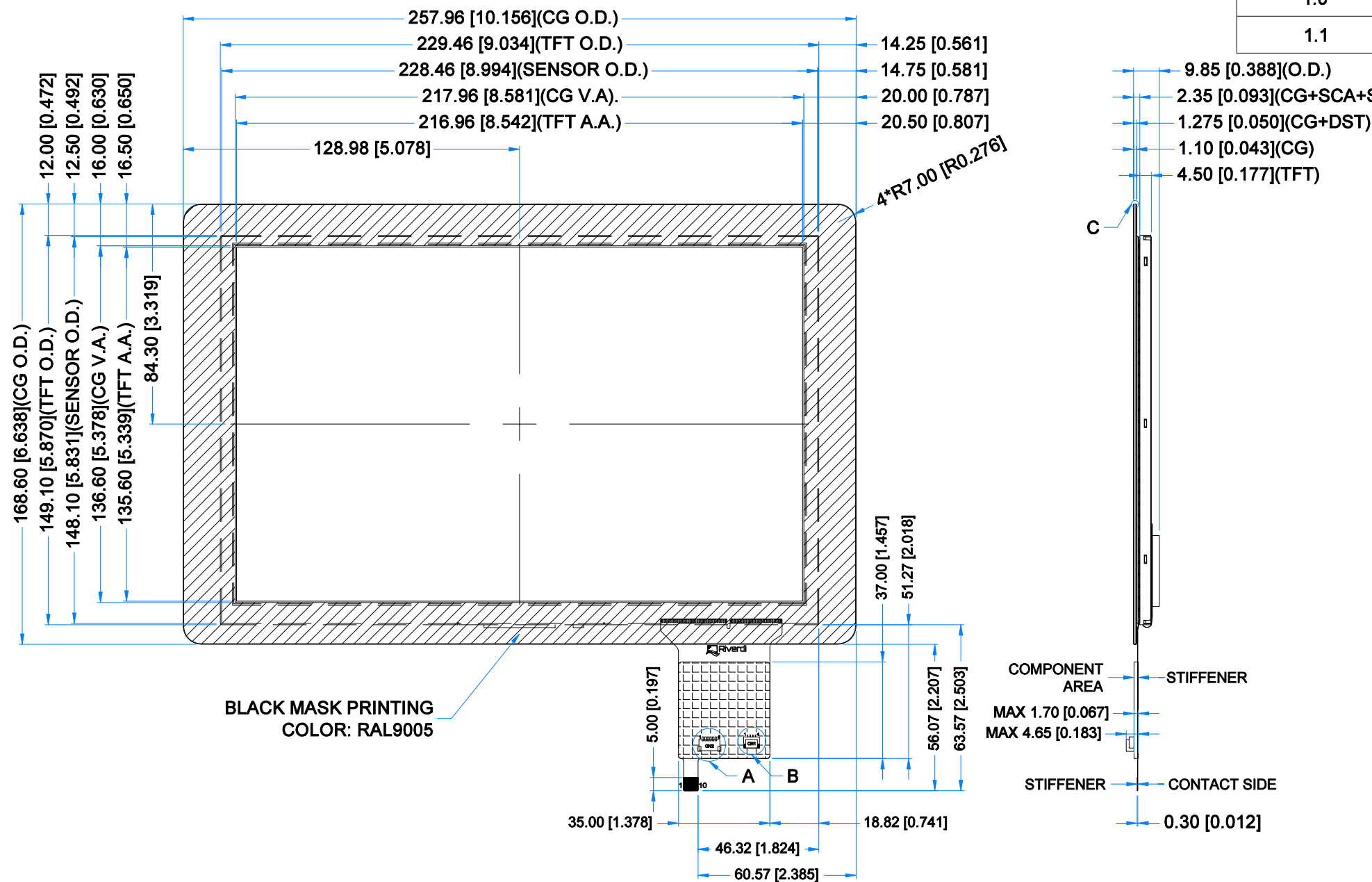
uxTouch are LCD TFT displays with specially designed projected capacitive touch panels. uxTouch display can be mounted without any hole in the housing. Our standard uxTouch displays include double-sided adhesive tape (DST) to stick TFT easily to the housing. Basic series include 4.3", 5.0", 7.0" and 10.1" display sizes.

uxTouch models with double-side adhesive tape can be mounted by connecting the glass to the housing. Riverdi recommends using support brackets assembled to display's back. An additional support will stiffen the whole structure and minimize the influence of external factors such as vibration. Figure 1 below shows examples of using support elements.

*Figure 1. Example of using support brackets*



Revision:	Changes:	Date:
1.0	Initial Case	2020.09.08
1.1	Dimensions Overhaul	2021.06.23



**TFT NOTES:**

1. LCD TYPE: TRANSMISSIVE, NORMALLY BLACK, IPS
2. RESOLUTION: 1280x800
3. VIEWING ANGLE: FREE
4. DRIVING VOLTAGE: 3.3V
5. BACKLIGHT: 45 LEDs,  $V_f=16.0V(TYP.)$ ,  $I_f=360mA$
6. ZERO BAD PIXEL

**TP NOTES:**

1. TP STRUCTURE: G+G
2. CG THICKNESS: 1.10mm
3. SURFACE HARDNESS: 7H
4. DRIVER IC: ILI2132A
5. INTERFACE: USB; I2C; OPTIONAL UART
6. OPERATING VOLTAGE: 3.3V(CTP I2C); 5.0V(CTP USB);

**GENERAL NOTES:**

1. MODULE SURFACE LUMINANCE: 800 cd/m<sup>2</sup>
2. OPERATING TEMPERATURE: -20°C ~ 70°C
3. STORAGE TEMPERATURE: -30°C ~ 80°C
4. WITHOUT INDIVIDUAL TOLERANCE: ±0.3mm[0.012inch]
5. RoHS COMPLIANT

PN: RVT101HVLNWC00

SN:

DRAWN: M.Natywa

2021.06.23

1:2.01

CHECKED: K.Brodacka

2021.07.07

[mm]

APPR:

ISO A3

P. 1 of 1



## 6. ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Supply Voltage for Module	VDD	-0.3	3.9	V
Operating Temperature	T <sub>OP</sub>	-20	70	°C
Storage Temperature	T <sub>ST</sub>	-30	80	

**Note 1.** The absolute maximum rating values must not be exceeded at any times. The module MUST NOT be used when any of the absolute maximum ratings is exceeded.

The characteristics of the module may not be recovered, or in an extreme case, the module may be permanently destroyed.

## 7. ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage	V <sub>DD</sub>	2.6	3.3	3.6	V
Operating Current	I <sub>VDD=3.3V</sub>	-	280	420	mA
Standby Current	I <sub>ST</sub>	-	1.5	2.0	mA

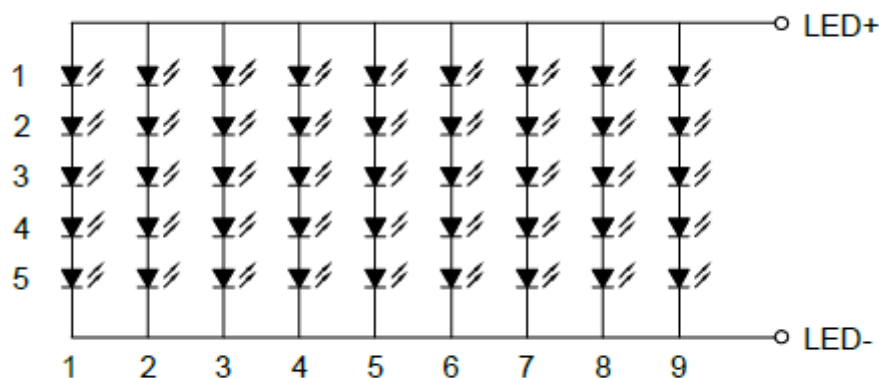
## 8. BACKLIGHT ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	NOTE
Backlight Driving Voltage	V <sub>F</sub>	15.0	16.0	17.0	V	
Backlight Driving Current	I <sub>F</sub>	315	360	405	mA	Note 1
Backlight Power Consumption	W <sub>BL</sub>	-	5760	-	mW	
LED Lifetime	-	-	50,000	-	hours	

**Note 1.** Each LED: I<sub>F</sub> = 40 mA, V<sub>F</sub> = 3.2 ± 0.2V.

**Note 2.** Optical performance should be evaluated at T<sub>a</sub> = 25 °C only.

**Note 3.** Operating life means the period in which the LED brightness goes down to 50% of the initial brightness. Typical operating lifetime is the estimated parameter.



LED Diagram Circuit

## 9. ELECTRO-OPTICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT	RMK	NOTE
Response Time	Tr+Tf	$\theta=0^\circ$ $\phi=0^\circ$ $T_a=25^\circ\text{C}$	-	25	35	ms	FIG 2.	4
Contrast Ratio	Cr		800	1000	-	---	FIG 3	1
Luminance Uniformity	$\delta$ WHITE		-	75	-	%		3
Surface Luminance	Lv		-	800	-	cd/m <sup>2</sup>		2
Viewing Angle Range	$\theta$	$\phi = 90^\circ$	75	85	-	deg	FIG 4.	6
		$\phi = 270^\circ$	75	85	-	deg		
		$\phi = 0^\circ$	75	85	-	deg		
		$\phi = 180^\circ$	75	85	-	deg		
CIE (x, y) Chromaticity	Rx	$\theta=0^\circ$ $\phi=0^\circ$ $T_a=25^\circ\text{C}$	0.22	0.26	0.30	-	FIG 3.	5
	Ry		0.20	0.24	0.28	-		
	Gx		0.34	0.38	0.42	-		
	Gy		0.50	0.54	0.58	-		
	Bx		0.10	0.14	0.18	-		
	By		0.09	0.13	0.17	-		
	Wx		0.28	0.32	0.36	-		
	Wy		0.29	0.33	0.37	-		

**Note 1.** Contrast Ratio(CR) is defined mathematically as below, for more information see Figure 3.

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

**Note 2.** Surface luminance is the LCD surface from the surface with all pixels displaying white. For more information see Figure 3.

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

**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 minimum luminance of 5 points luminance by maximum luminance of 5 points luminance. For more information see Figure 3.

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

**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 2. The test equipment is BM-7A.

**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.** 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 LCD surface. For more information see Figure 4.



**Note 7.** Viewing angle is measured at the center point of the LCD by CONOSCOPE (ergo-80). For response time testing, the testing data is based on BM-7A. Instruments for Contrast Ratio, Surface Luminance, Luminance Uniformity, Chromaticity the test data is based on SR-3A.

Figure 2. The definition of response time

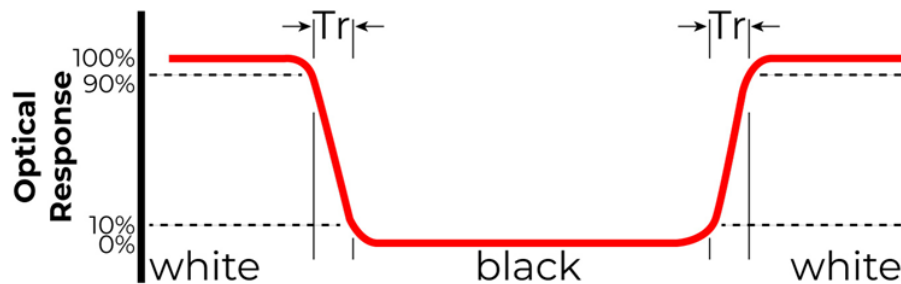


Figure 3. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x,y) chromaticity

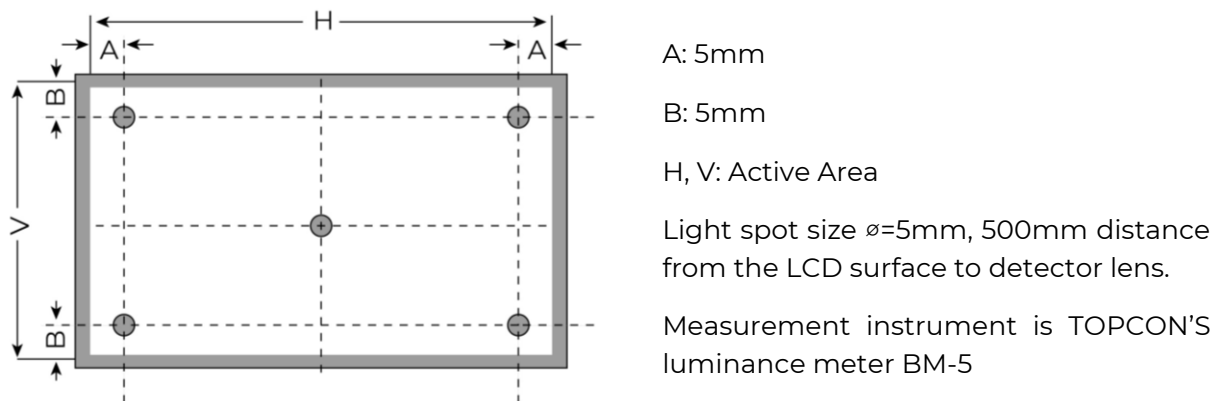
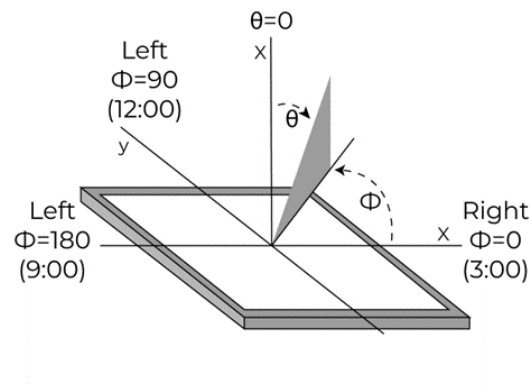


Figure 4. The definition of viewing angle





## 10. INTERFACES DESCRIPTION

### 10.1 TFT assignment

Matched Riverdi ZIF connector: ZIF0540DH-CF25

PIN NO.	SYMBOL	I/O	DESCRIPTION
1	NC	-	No Connection
2	V <sub>DD</sub>	P	Power Supply, 3.3V
3	V <sub>DD</sub>	P	Power Supply, 3.3V
4-6	NC	-	No Connection
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 Data Input
18	RxCLK+	I	+LVDS Differential Data Input
19	GND	P	Ground
20	Rxin3-	I	-LVDS Differential Data Input
21	Rxin3+	I	+LVDS Differential Data Input
22	GND	P	Ground
23	NC	-	No Connection
24	NC	-	No Connection
25	GND	P	Ground
26-29	NC	-	No Connection
30	GND	P	Ground
31	LED-	P	LED Cathode
32	LED-	P	LED Cathode
33	NC	-	No Connection
34	NC	-	No Connection
35	NC	-	No Connection
36	NC	-	No Connection
37	NC	-	No Connection
38	NC	-	No Connection
39	LED+	P	LED Anode
40	LED+	P	LED Anode

**Note 1.** I: input, P:Power



## 10.2 Touch panel assignment

Matched Riverdi ZIF connector: ZIF0510DH-CF25

PIN NO.	SYMBOL	DESCRIPTION	NOTE
1	USB_GND	USB_ Ground	
2	USB_VDD	USB Power for CTP, 5.0V	Note 1
3	USB_D-	USB _Data Signal -	
4	USB_D+	USB _Data Signal +	
5	I2C_GND	I2C _ Ground	
6	I2C_VDD	I2C _Power for CTP, 3.3 V	Note 1
7	I2C_RST	I2C _Reset Pin, Active low	Note 2
8	I2C_SCL	I2C _Clock Input	
9	I2C_INT	I2C _Interrupt Signal from CTP, Active low	
10	I2C_SDA	I2C _Data Signal	

**Note 1.** Please do not supply power to both USB\_VDD and I2C\_VDD at the same time, Otherwise, there is a risk that the LDO on the PCAP FPC will be destroyed.

**Note 2.** External pull-up resistors are required.

## 10.3 CON1 assignment

Matched PCAP USB programing cable accessory: RVA-PCAP-USB-CABLE

PIN NO.	SYMBOL	DESCRIPTION	NOTE
1	USB_VDD	USB_Power for CTP, DC 5.0V	Note 1
2	USB_D-	USB _Data Signal -	
3	USB_D+	USB _Data Signal +	
4	USB_GND	USB_Ground	

**Note 1.** If USD\_VDD of CON1 is powered, please make sure to disconnect the PCAP FPC from the PCAP ZIF connector on your application.

Otherwise, there is a risk that the LDO on the PCAP FPC will be destroyed

## 10.4 CON2 assignment

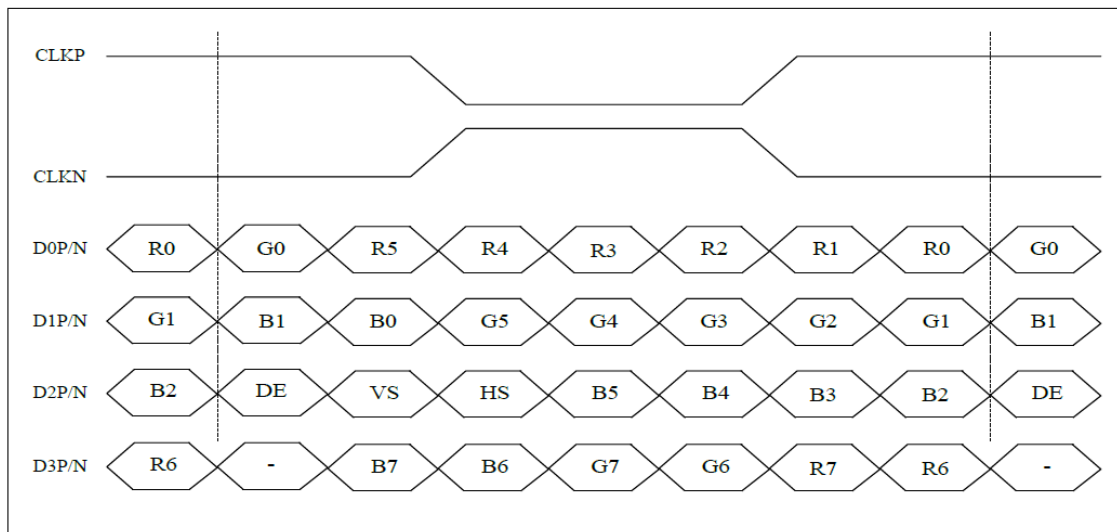
PIN NO.	SYMBOL	DESCRIPTION	NOTE
1	I2C_GND	I2C _ Ground	
2	I2C_VDD	I2C _Power for CTP, 3.3 V	
3	I2C_RST	I2C _Reset Pin, Active low	Note 1
4	I2C_SCL	I2C _Clock Input	
5	I2C_INT	I2C _Interrupt Signal from CTP, Active low	
6	I2C_SDA	I2C _Data Signal	

**Note 1.** External pull-up resistors are required.

## 11. TIMING CHARACTERISTICS

### 11.1 LVDS interface characteristic

VESA Format: 8-bit LVDS input, (LVBIT=H, LVFMT=H)



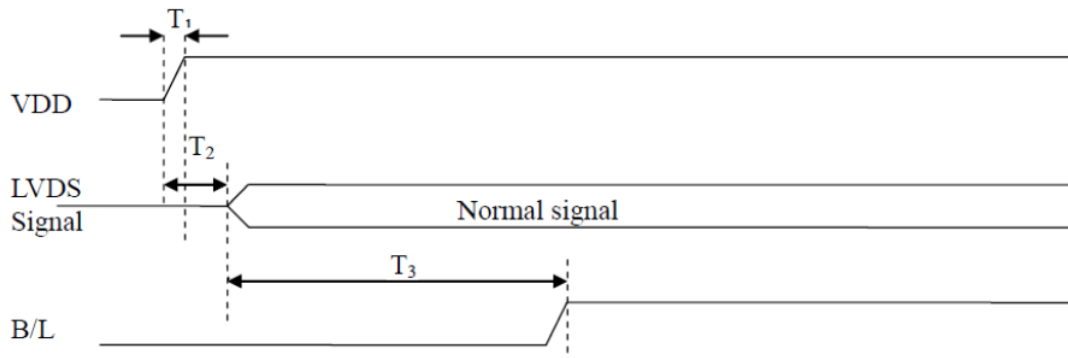
Note 1. Control signals DE: Active High VS HS: Active Low

### 11.2 Timing table

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Clock Frequency (Rate=60Hz(LVDS))	FDCLK	66.3	72.4	78.9	MHz
HSYNC Period Time	T <sub>H</sub>	1380	1440	1500	DCLK
Horizontal Display area	T <sub>HD</sub>	1280			DCLK
Hsync pulse Width	T <sub>HPW</sub>	1	-	40	T <sub>c</sub>
Hsync Back Porch (with pulse width)	T <sub>HBP</sub>	88	88	88	DCLK
Hsync Front Porch	T <sub>HFP</sub>	12	72	132	DCLK
VSYNC Period Time	T <sub>V</sub>	824	838	872	H
Vertical Display area	T <sub>VD</sub>	800			
Vsync pulse Width	T <sub>VW</sub>	1	-	20	
Vsync Back Porch (with pulse width)	T <sub>VBP</sub>	23	23	23	
Vsync Front Porch	T <sub>VFP</sub>	1	15	49	

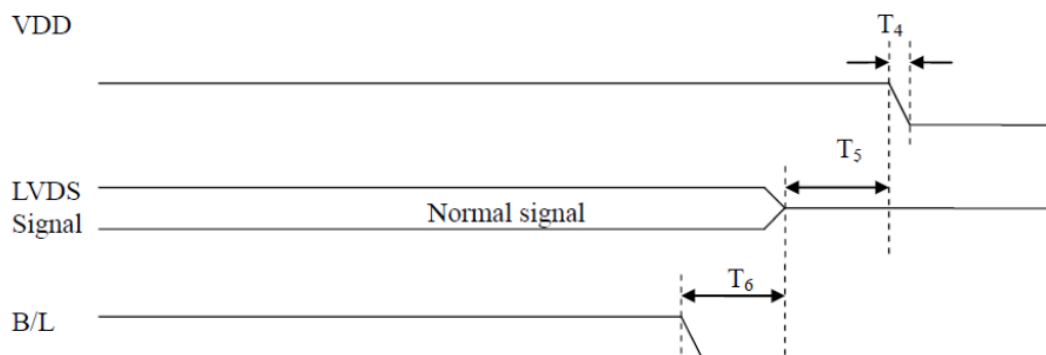
### 11.3 Power ON/OFF sequence

#### 11.3.1 Power on sequence



PARAMETER	VALUE			UNIT
	MIN.	TYP.	MAX.	
T <sub>1</sub>	0.5	2	10	ms
T <sub>2</sub>	0	5	50	
T <sub>3</sub>	130	136	210	

#### 11.3.2 Power off sequence



PARAMETER	VALUE			UNIT
	MIN.	TYP.	MAX.	
T <sub>4</sub>	0.5	2	10	ms
T <sub>5</sub>	0	7	50	
T <sub>6</sub>	0	2	100	

## 12. CAPACITIVE TOUCH SCREEN PANEL SPECIFICATIONS

### 12.1 Mechanical characteristics

DESCRIPTION	SPECIFICATION	REMARK
Touch Panel Size	10.1 inch	uxTouch
Outline Dimension of CTP	257.96 mm x 168.60 mm	
Product Thickness	2.35 mm	
Glass Thickness	1.1 mm	
CTP View Area	217.96 mm x 136.60 mm	
Sensor Active Area	218.96 mm x 137.60 mm	
Structure type	Glass + Glass	
Surface Hardness	7H	

### 12.2 Electrical characteristics

DESCRIPTION	SPECIFICATION	
Power Consumption (IDD)	Active Mode	90 mA
	Sleep Mode	10 mA
Linearity		+/- 1.5mm
Controller		ILI2132A
Resolution		1280 x 800

## 13. INSPECTION

Standard acceptance/rejection criteria for TFT module

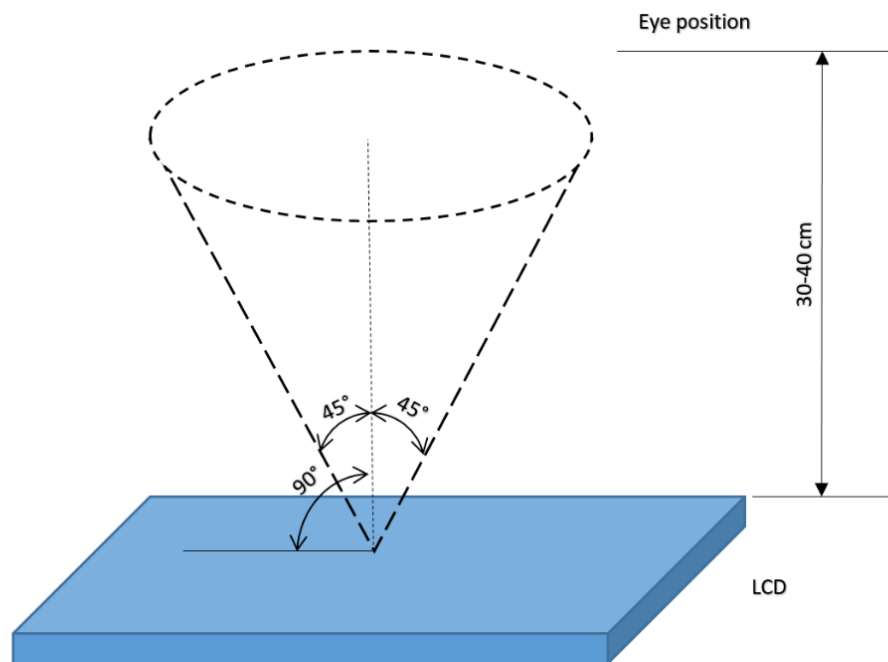
### 13.1 Inspection condition

Ambient conditions:

- Temperature:  $25 \pm 2^{\circ}\text{C}$
- Humidity:  $(60 \pm 10) \% \text{RH}$
- Illumination: Single fluorescent lamp non-directive (300 to 700 lux)

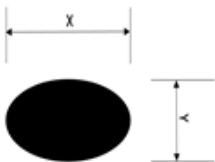
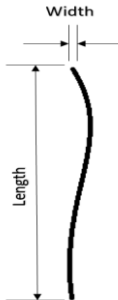
Viewing distance:  $35 \pm 5\text{cm}$  between inspector bare eye and LCD.

Viewing Angle: U/D:  $45^{\circ}/45^{\circ}$ , L/R:  $45^{\circ}/45^{\circ}$



### 13.2 Inspection standard

The LCD TFT has zero bad pixels. Please refer the item "Bright/Dark dots".

ITEM		CRITERION		
Black spots, white spots, light leakage, Foreign Particle (round Type)	 $D=(x+y)/2$ Spots density: 10 mm	Size = 10.1"		
		Average Diameter		Qualified Qty
		$D \leq 0.2 \text{ mm}$		Ignored
		$0.2 \text{ mm} < D \leq 0.3 \text{ mm}$		$N \leq 4$
		$0.5 \text{ mm} < D$		Not allowed
LCD black spots, white spots, light leakage (line Type)	 Spots density: 10 mm	Size = 10.1"		
		Length	Width	Qualified Qty
		-	$W \leq 0.05$	Ignored
		$L \leq 5.0$	$0.05 < W \leq 0.1$	$N \leq 3$
		$5.0 < L$	$0.10 < W$ $5.0 < L$	Not allowed
Bright/Dark Dots	Size = 10.1			
	Item		Qualified Qty	
	Bright dots		0	
	Dark dots		0	
	Cluster Bright Dots or Dark Dots		0	
	Total Bright and Dark Dots		0	
Clear spots	Size $\geq 5.0$ "			
	Average Diameter		Qualified Qty	
	$D < 0.2 \text{ mm}$		Ignored	
	$0.2 \text{ mm} < D < 0.3 \text{ mm}$		4	
	$0.3 \text{ mm} < D < 0.5 \text{ mm}$		2	
	$0.5 \text{ mm} < D$		0	
	Spots density: 10 mm			
Touch panel spots	Size $\geq 5.0$ "			
	Average Diameter		Qualified Qty	
	$D < 0.25 \text{ mm}$		Ignored	
	$0.25 \text{ mm} < D < 0.5 \text{ mm}$		4	
	$0.5 \text{ mm} < D$		0	
Touch panel white line scratch	Size $\geq 5.0$ "			
	Length	Width	Qualified Qty	
	-	$W < 0.03$	Ignored	
	$L < 5.0$	$0.03 < W < 0.05$	2	
	-	$0.05 < W$	0	



## 14. RELIABILITY TEST

NO.	TEST ITEM	TEST CONDITION	NOTE
1	High Temperature Storage	80°C/120 hours	Note 1
2	Low Temperature Storage	-30°C/120 hours	
3	High Temperature Operating	70 °C /120 hours	
4	Low Temperature Operating	-20°C/120 hours	
5	High Temperature and High Humidity	Humidity 40°C, 90%RH, 120Hrs	
6	Thermal Cycling Test (No operation)	-20°C for 30min, 70°C for 30 min. 100 cycles. Then test at room temperature after 1 hour	Note 2
7	Vibration Test	Frequency: 10 ÷ 55 Hz. Stroke: 1.5 mm. Sweep: 10Hz ÷ 55Hz ÷ 10 Hz. 2 hours for each direction of X, Y, Z (Total 6 hours)	
8	Package Drop Test	Height: 60 cm 1 corner, 3 edges, 6 surfaces	

**Note 1.** Sample quantity for each test item is 5 ÷ 10 pcs.

**Note 2.** Before cosmetic and function test, the product must have enough recovery time, at least 2 hours at room temperature.



## 15. LEGAL INFORMATION

CE marking is usually obligatory only for a complete end product. Riverdi display modules are semi-finished goods which are used as inputs to become part of the finished products.

Therefore, Riverdi display modules are not CE marked.

Riverdi grants the guarantee for the proper operation of the goods for a period of 12 months from the date of possession of the goods. If in a consequence of this guaranteed execution the customer has received the defects-free item as replacement for the defective item, the effectiveness period of this guarantee shall start anew from the moment the customer receives the defects-free item.

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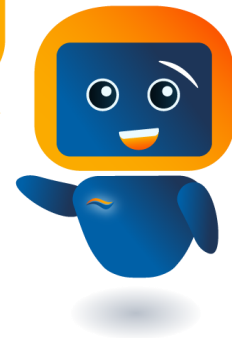
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