

TFT MODULE SPECIFICATION



RVT101HVDNWC00-B

MIPI DSI, IPS 10.1" LCD TFT DATASHEET

Rev.1.0

2023-11-15

| 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 12.66 | 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 x 800 | / |
| Brightness | 850 | cd/m ² |
| Color Depth | 16.7 M | / |
| Pixel Arrangement | RGB Vertical Stripe | / |
| Driver IC of Board | SN65DSI83 | / |
| Interface | MIPI DSI | / |
| EEPROM Memory Size | 2-Kbit | Mb |
| Host Connector | ZIF 34 pins, 0.5mm pitch, down-side contact | / |
| With/Without Touch | With Projected Capacitive Touch Panel | / |
| CTP Driver | ILI2132A | / |
| Supply Voltage for Module | 5.0 | V |
| Bonding Technology | Optical Bonding | / |
| Weight | 456 | g |

Note 1. RoHS compliant

Note 2. LCM weight tolerance: ± 5%.



1. REVISION RECORD

| REV NO. | REV DATE | CONTENTS | REMARKS |
|---------|------------|-----------------|---------|
| 1.0 | 2023-11-15 | Initial release | |



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3. MODULE CLASSIFICATION INFORMATION

| RV | T | 101 | H | V | D | N | W | C | 00 | B |
|----|----|-----|----|----|----|----|----|----|-----|-----|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |

| 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 | D – MIPI DSI |
| 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) |
| 11. | BONDING TECHNOLOGY | B – Optical bonding |



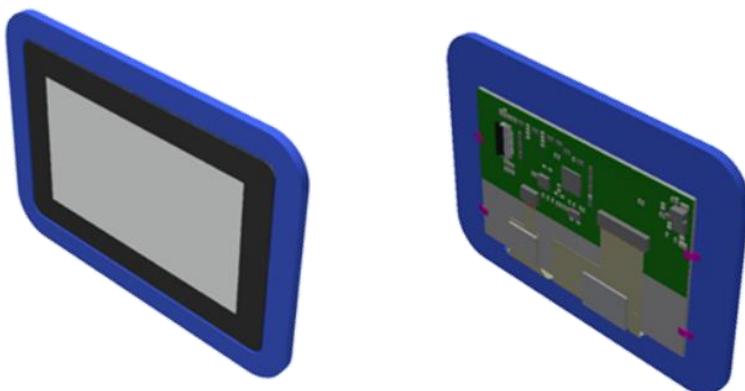
4. ASSEMBLY GUIDE

4.1 uxTouch ASSEMBLY

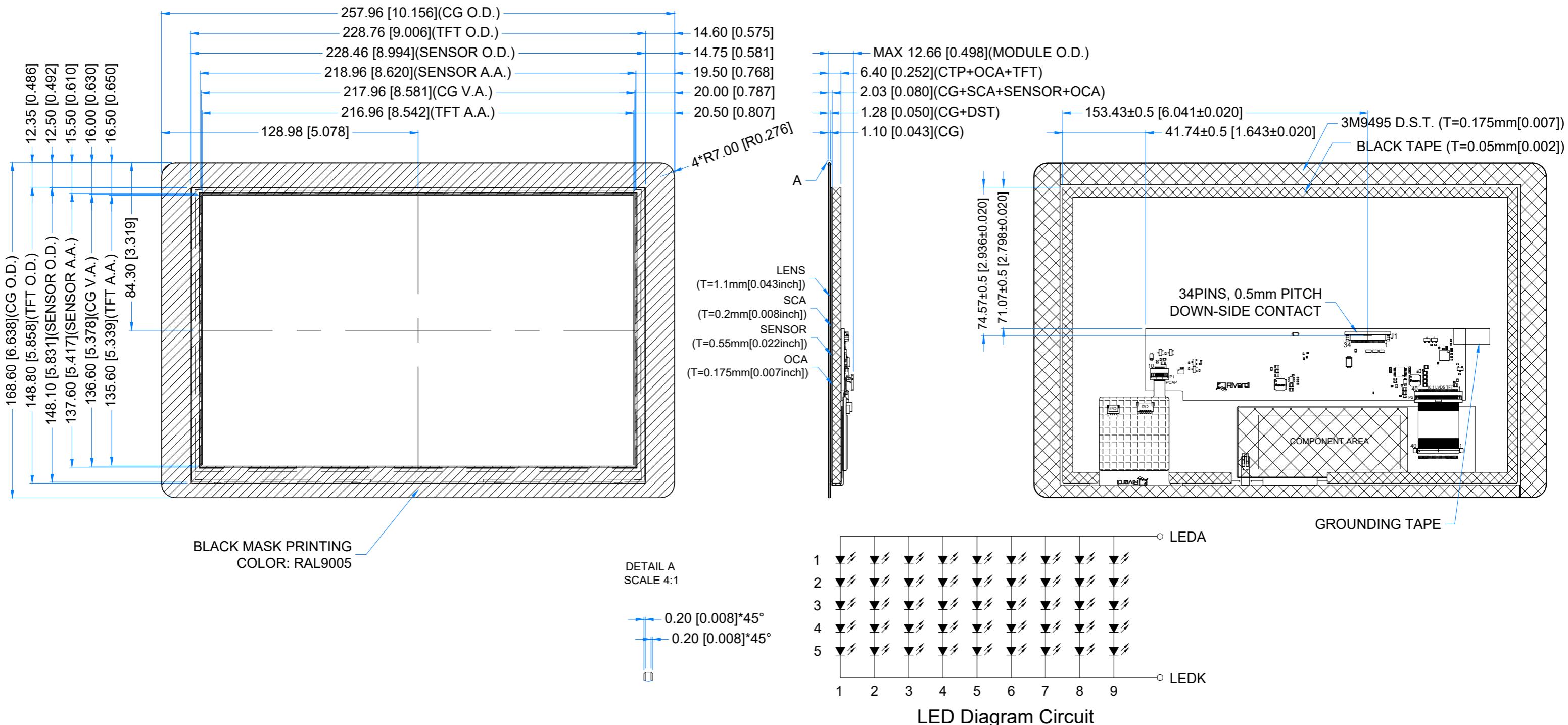
uxTouch are LCD TFT displays with specially designed projected capacitive touch panels. uxTouch display can be mounted without any additional holes in the housing. Our standard uxTouch displays include double-sided adhesive tape (DST) to stick TFT easily to the housing.

uxTouch models with double-side adhesive tape can be mounted by fastening the glass to the housing.

Figure 1. General view of the module



| Revision: | Changes: | Date: |
|-----------|--------------|------------|
| 1.0 | Initial Case | 2023.08.08 |



PINOUT ON THE 2ND PAGE

| | | | |
|--|--|---|--|
| LCD NOTES: 1. LCD TYPE: TRANSMISSIVE, NORMALLY BLACK, IPS 2. RESOLUTION: 1280x800 3. VIEWING ANGLE: FREE 4. SURFACE LUMINANCE: 850 cd/m^2 5. DRIVING IC ON THE BOARD: SN65DSI83ZXHR 6. INTERFACE: MIPI DSI 7. SUPPLY VOLTAGE FOR MODULE: 5.0 V | TP NOTES: 1. TP STRUCTURE: G+G 2. CG THICKNESS: 1.10mm[0.043inch] 3. SURFACE HARDNESS: 7H 4. DRIVER IC: ILI2132A 5. INTERFACE: I2C INTERFACE | GENERAL NOTES: 1. ZERO BAD PIXELS FOR TFT 2. OPTICAL BONDING 3. OPERATING TEMPERATURE: -20°C ~ 70°C 4. STORAGE TEMPERATURE: -30°C ~ 80°C 5. WITHOUT INDIVIDUAL TOLERANCE: ±0.3mm[0.012inch] 6. RoHS COMPLIANT | PN: RVT101HVDNWC00-B SN: DRAWN: M.Natywa 2023.08.08 1:1.92 CHECKED: Carol Gao 2023.09.04 [mm] APPR: ISO A3 P. 1 of 1 |
| | | |  |



6. ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | MIN | MAX | UNIT | NOTE |
|---|------------------|------|-----|------|--------|
| Supply Voltage for Module | V _{DD} | 0 | 7.4 | V | Note 1 |
| Reference Voltage | V _{REF} | 0 | 4.6 | V | |
| PWM Input Voltage | V _{PWM} | -0.3 | 7.4 | | |
| Operating Temperature | T _{OP} | -20 | 70 | °C | |
| Storage Temperature | T _{ST} | -30 | 80 | | |
| Storage Humidity (@ 25 ± 5°C) | H _{ST} | 10 | - | % RH | |
| Operating Ambient Humidity (@ 25 ± 5°C) | H _{OP} | 10 | - | | |

Note 1. Exceeding maximum values may cause improper operation or permanent damage to the unit.

7. ELECTRICAL CHARACTERISTICS

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | NOTE |
|-------------------------------------|-------------------|---------------------|-----|---------------------|-----------------|------------------------|
| Supply Voltage for Module | V _{DD} | - | 5.0 | - | V | |
| Reference Voltage | V _{REF} | 0 | - | 3.6 | | Note 1 |
| Current drawn from V _{REF} | I _{VREF} | - | 1.5 | - | uA | V _{REF} =1.8V |
| Input High Voltage | V _{IH} | 0.7V _{REF} | - | - | V | |
| Input Low Voltage | V _{IL} | 0 | - | 0.3V _{REF} | | |
| PWM Logic | High Voltage | V _{PWMH} | 1.2 | - | V _{DD} | |
| Input Voltage | Low Voltage | V _{PWML} | 0 | - | 0.4 | |
| PWM Frequency | F _{PWM} | 200 | - | 1000 | Hz | |

Note 1. TYP of Reference Voltage is 1.8V or 3.3V which is dependent on the SBC.

Note 2. PWM input is independent of V_{REF}. Min of logic high level is 1.2V and max of logic low level is 0.4V.

| PARAMETER | SYMBOL | BL 0% | BL 50% | BL 100% | UNIT | NOTE |
|--|------------------|-------|--------|---------|------|--------|
| Current drawn from V _{DD} @5.0V | I _{VDD} | 270 | 730 | 1270 | mA | Note 3 |

Note 3. BL 0%. current was measured with BL brightness set to 0%,

BL 50%.current was measured with BL brightness set to 50%,

BL 100%.current was measured with BL brightness set to 100%.

Test condition:

1. Ambient temp 25 °C
- 2.PCAP is in active mode



8. BACKLIGHT ELECTRICAL CHARACTERISTICS

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | NOTE |
|-----------|--------|-----|--------|-----|-------|--------|
| Lifetime | - | - | 50,000 | - | hours | Note 1 |

Note 1. 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.

9. ELECTRO-OPTICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | MIN | TYP | MAX | UNIT | RMK | NOTE |
|-------------------------|-------------------|--|------|------|------|-------------------|--------|------|
| Response Time | Tr+Tf | $\theta=0^\circ$ $\phi=0^\circ$ Ta=25 °C | - | 25 | 35 | ms | FIG 2. | 4 |
| Contrast Ratio | Cr | | 800 | 1000 | - | --- | | 1 |
| Luminance Uniformity | δ WHITE | | - | 75 | - | % | | 3 |
| Surface Luminance | Lv | | - | 850 | - | cd/m ² | | 2 |
| Viewing Angle Range | θ | $\phi = 90^\circ$ | 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 | $\theta=0^\circ$ $\phi=0^\circ$ Ta=25 °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 measured 500mm from the center point of the LCD surface with all pixels displaying white. For more information see Figure 3.

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

Note 3. The uniformity in surface luminance δ 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 calculating the 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

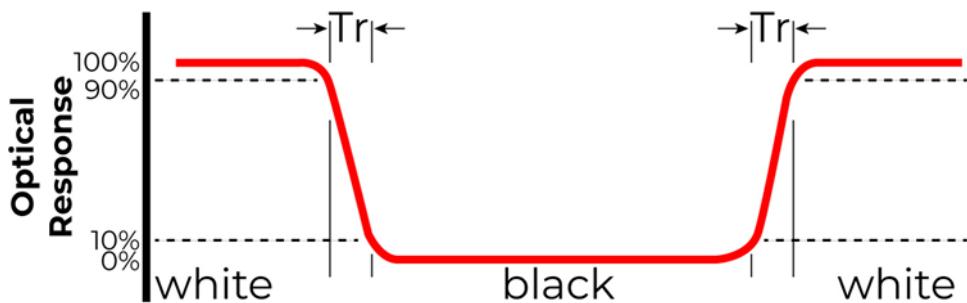


Figure 3. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x, y) chromaticity

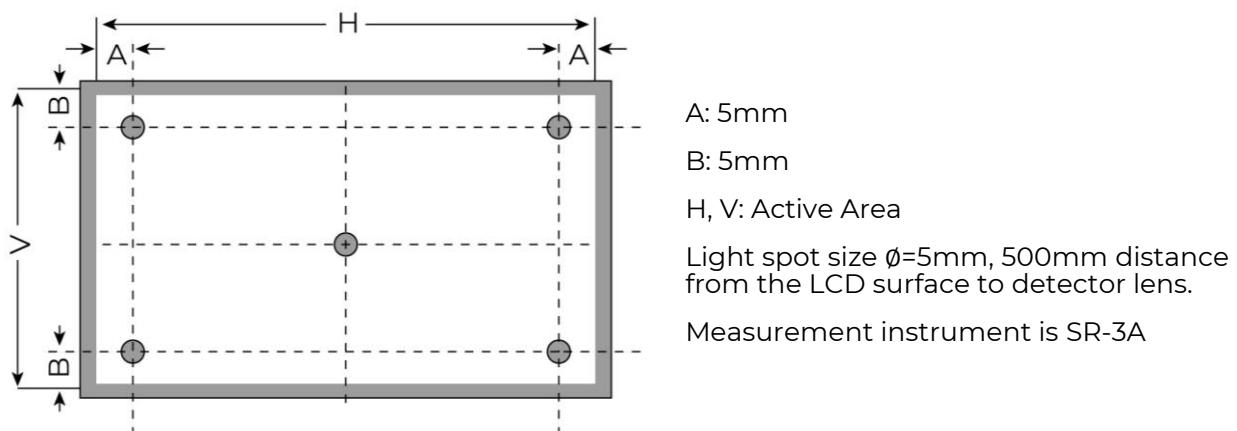
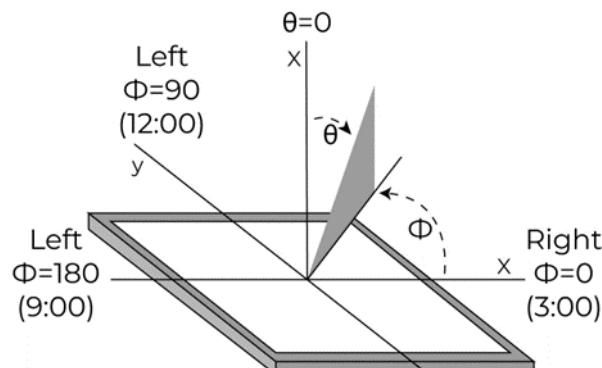




Figure 4. The definition of viewing angle



10. INTERFACES DESCRIPTION

10.1 J1 connector

| PIN NO. | CONNECTOR | I/O/P | DESCRIPTION | NOTE |
|---------|------------------|-------|--|--------|
| 1 | GND | P | Ground | |
| 2 | DSI_D0P | I/O | | |
| 3 | DSI_D0N | I/O | MIPI DSI differential data pair. (Data lane 0) | |
| 4 | GND | P | Ground | |
| 5 | DSI_D1P | I | | |
| 6 | DSI_D1N | I | MIPI DSI differential data pair. (Data lane 1) | |
| 7 | GND | P | Ground | |
| 8 | DSI_CLKP | I | | |
| 9 | DSI_CLKN | I | MIPI DSI differential clock pair | |
| 10 | GND | P | Ground | |
| 11 | DSI_D2P | I | | |
| 12 | DSI_D2N | I | MIPI DSI differential data pair. (Data lane 2) | |
| 13 | GND | P | Ground | |
| 14 | DSI_D3P | I | | |
| 15 | DSI_D3N | I | MIPI DSI differential data pair. (Data lane 3) | |
| 16 | GND | P | Ground | |
| 17 | PWR_DN | I | Power down (With locally generated reset after releasing power-down) Active Low, display is off when signal is low; | Note 2 |
| 18 | PWM | I | Backlight brightness control | Note 3 |
| 19 | INT | O | Touch panel Interrupt signal; Open-drain output, active low | |
| 20 | I2C_SCL | I | I2C clock signal | |
| 21 | I2C_SDA | I/O | I2C data signal | |
| 22 | RESET | I | Touch panel reset, active low (touch panel is off) | |
| 23 | NC | / | No connection | |
| 24 | V _{REF} | P | Reference voltage | |
| 25 | NC | / | No connection | |



| | | | | |
|----|------|---|------------------------------|--|
| 26 | | | | |
| 27 | 5.0V | P | Power supply V _{DD} | |
| 28 | | | | |
| 29 | | | | |
| 30 | GND | P | Ground | |
| 31 | | | | |
| 32 | NC | / | No connection | |
| 33 | | | | |
| 34 | | | | |

Note 1. Matched 34 pins, 0.5 mm pitch, 150mm long FFC accessory: FFC0534150.

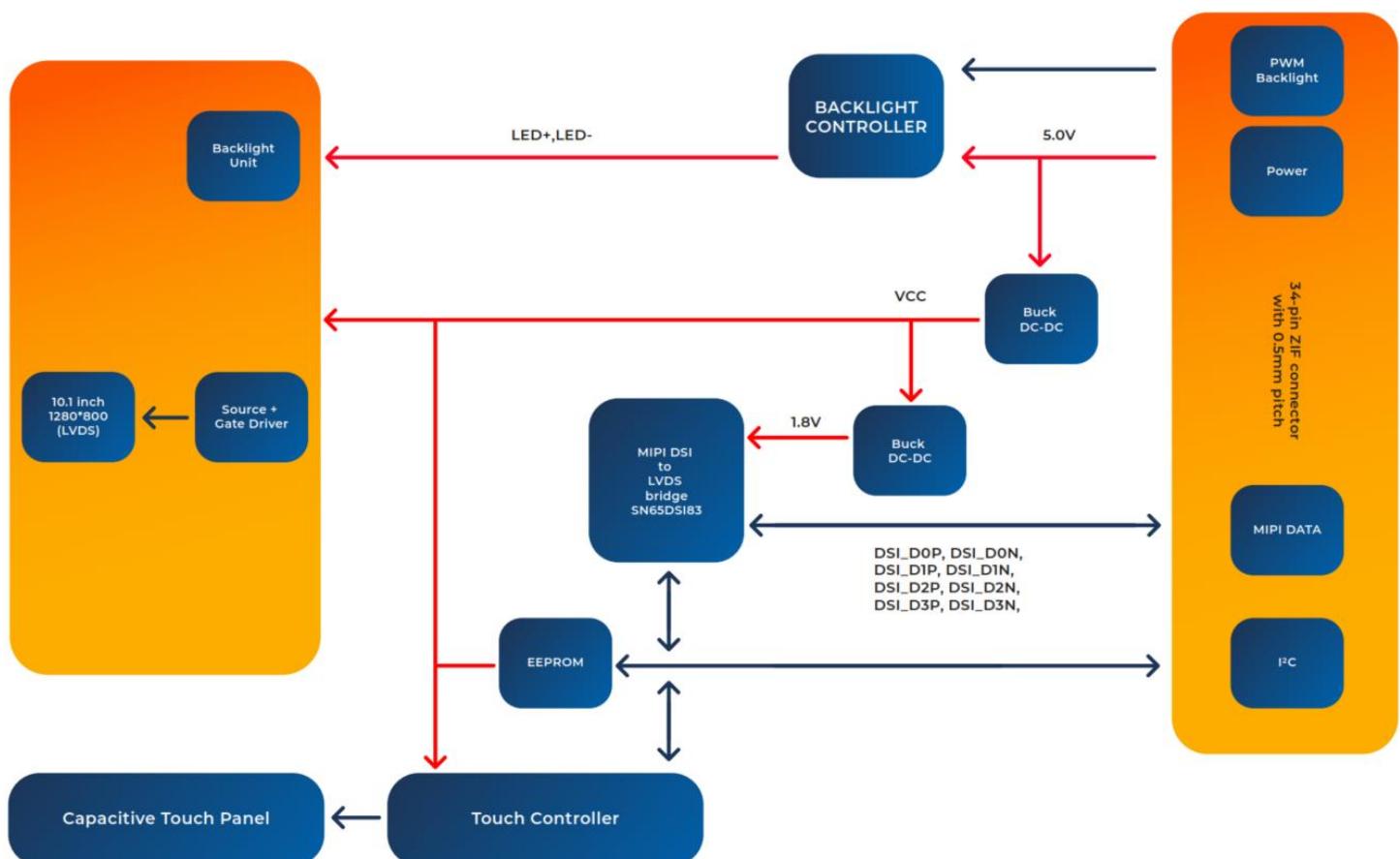
Note 2. Internally pull-up with 15K resistor to V_{REF}.

Note 3. Backlight driver is TPS61500. PWM frequency range: 200Hz-1KHz.

0% PWM duty cycle corresponds to minimum brightness.

100% PWM duty cycle corresponds to maximum brightness.

11. DIAGRAM BLOCK





12. TFT TIMING CHARACTERISTICS

The TFT of the module applies Riverdi high brightness, IPS, 10.1" TFT: RVT101HVLNWCO0-B

For detailed information of the display, please refer to datasheet of display.

12.1 Timing table

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT |
|--|-------------------|------|------|------|------|
| Clock Frequency (Rate=60Hz (LVDS)) | F _{DCLK} | 66.3 | 72.4 | 78.9 | MHz |
| H SYNC Period Time | T _H | 1380 | 1440 | 1500 | DCLK |
| Horizontal Display area | T _{HD} | | 1280 | | DCLK |
| Hsync Pulse Width | T _{HPW} | 1 | - | 40 | Tc |
| Hsync Back Porch (With pulse width) | T _{HBP} | 88 | 88 | 88 | DCLK |
| Hsync Front Porch | T _{HFP} | 12 | 72 | 132 | DCLK |
| V SYNC Period Time | T _V | 824 | 838 | 872 | |
| Vertical Display area | T _{VD} | | 800 | | |
| Vsync Pulse Width | T _{VW} | 1 | - | 20 | |
| Vsync Back Porch (With pulse width) | T _{VBP} | 23 | 23 | 23 | |
| Vsync Front Porch | T _{VFP} | 1 | 15 | 49 | |

13. CAPACITIVE TOUCH SCREEN PANEL SPECIFICATIONS

13.1 Mechanical characteristics

| DESCRIPTION | SPECIFICATION | REMARK |
|--------------------------|-----------------------|---------|
| Touch Panel Size | 10.1 inch | |
| Outline Dimension of CTP | 257.96 mm x 168.60 mm | |
| Product Thickness | 2.03 mm | |
| Glass Thickness | 1.1 mm | |
| CTP View Area | 217.96 mm x 136.60 mm | |
| Sensor Active Area | 218.96mm x 137.60 mm | |
| Surface Hardness | 7H | uxTouch |

13.2 Electrical characteristics

| DESCRIPTION | SPECIFICATION | REMARK |
|-------------|---------------|--------|
| Linearity | +/- 1.5mm | |
| Controller | ILI2132A | |
| Resolution | 1280 x 800 | |



14. INSPECTION

Standard acceptance/rejection criteria for TFT module

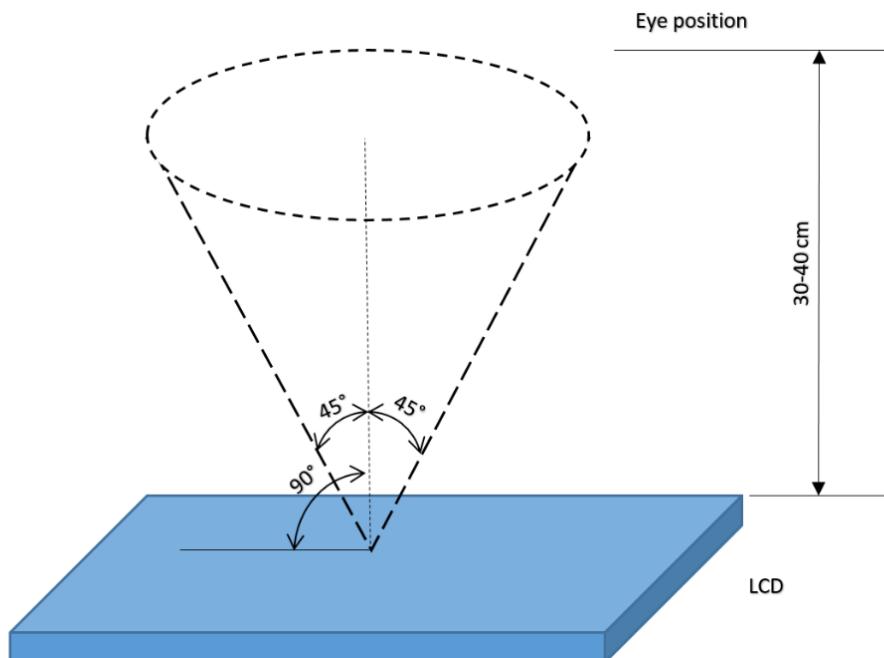
14.1 Inspection condition

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.

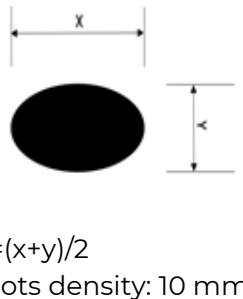
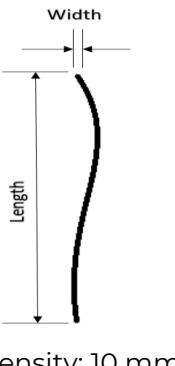
Viewing Angle: U/D: $45^\circ/45^\circ$, L/R: $45^\circ/45^\circ$





14.2 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) |  <p>Size =10.1"</p> | | | | | | | | | | | |
| | Average Diameter Qualified Qty | | | | | | | | | | | |
| | D ≤ 0.2 mm Ignored | | | | | | | | | | | |
| | 0.2 mm < D ≤ 0.3 mm N≤4 | | | | | | | | | | | |
| | 0.5mm < D N = 0 | | | | | | | | | | | |
| LCD black spots, white spots, light leakage (line Type) |  <p>Size =10.1"</p> | | | | | | | | | | | |
| | Length Width Qualified Qty | | | | | | | | | | | |
| | - W ≤ 0.05 Ignored | | | | | | | | | | | |
| | L ≤ 5.0 0.05< W ≤ 0.1 N ≤ 3 | | | | | | | | | | | |
| | 5.0 < L 0.10< W 5.0 < L N = 0 | | | | | | | | | | | |
| Bright/Dark Dots | <p>Size =10.1"</p> <table> <thead> <tr> <th>Item</th><th>Qualified Qty</th></tr> </thead> <tbody> <tr> <td>Bright dots</td><td>0</td></tr> <tr> <td>Dark dots</td><td>0</td></tr> <tr> <td>Cluster Bright Dots or Dark Dots</td><td>0</td></tr> <tr> <td>Total Bright and Dark Dots</td><td>0</td></tr> </tbody> </table> | Item | Qualified Qty | Bright dots | 0 | Dark dots | 0 | Cluster Bright Dots or Dark Dots | 0 | Total Bright and Dark Dots | 0 | |
| Item | Qualified Qty | | | | | | | | | | | |
| Bright dots | 0 | | | | | | | | | | | |
| Dark dots | 0 | | | | | | | | | | | |
| Cluster Bright Dots or Dark Dots | 0 | | | | | | | | | | | |
| Total Bright and Dark Dots | 0 | | | | | | | | | | | |
| <p>Size ≥ 5"</p> <table> <thead> <tr> <th>Average Diameter</th><th>Qualified Qty</th></tr> </thead> <tbody> <tr> <td>D < 0.2 mm</td><td>Ignored</td></tr> <tr> <td>0.2 mm < D < 0.3 mm</td><td>4</td></tr> <tr> <td>0.3 mm < D < 0.5 mm</td><td>2</td></tr> <tr> <td>0.5 mm < D</td><td>0</td></tr> </tbody> </table> | Average Diameter | Qualified Qty | D < 0.2 mm | Ignored | 0.2 mm < D < 0.3 mm | 4 | 0.3 mm < D < 0.5 mm | 2 | 0.5 mm < D | 0 | | |
| Average Diameter | Qualified Qty | | | | | | | | | | | |
| D < 0.2 mm | Ignored | | | | | | | | | | | |
| 0.2 mm < D < 0.3 mm | 4 | | | | | | | | | | | |
| 0.3 mm < D < 0.5 mm | 2 | | | | | | | | | | | |
| 0.5 mm < D | 0 | | | | | | | | | | | |
| Spots density: 10 mm | | | | | | | | | | | | |
| <p>Size ≥ 5"</p> <table> <thead> <tr> <th>Average Diameter</th><th>Qualified Qty</th></tr> </thead> <tbody> <tr> <td>D < 0.25 mm</td><td>Ignored</td></tr> <tr> <td>0.25 mm < D < 0.5 mm</td><td>4</td></tr> <tr> <td>0.5 mm < D</td><td>0</td></tr> </tbody> </table> | Average Diameter | Qualified Qty | D < 0.25 mm | Ignored | 0.25 mm < D < 0.5 mm | 4 | 0.5 mm < D | 0 | | | | |
| Average Diameter | Qualified Qty | | | | | | | | | | | |
| D < 0.25 mm | Ignored | | | | | | | | | | | |
| 0.25 mm < D < 0.5 mm | 4 | | | | | | | | | | | |
| 0.5 mm < D | 0 | | | | | | | | | | | |
| <p>Size ≥ 5"</p> <table> <thead> <tr> <th>Length</th><th>Width</th><th>Qualified Qty</th></tr> </thead> <tbody> <tr> <td>-</td><td>W < 0.03</td><td>Ignored</td></tr> <tr> <td>L < 5.0</td><td>0.03 < W < 0.05</td><td>2</td></tr> <tr> <td>-</td><td>0.05 < W</td><td>0</td></tr> </tbody> </table> | Length | Width | Qualified Qty | - | W < 0.03 | Ignored | L < 5.0 | 0.03 < W < 0.05 | 2 | - | 0.05 < W | 0 |
| Length | Width | Qualified Qty | | | | | | | | | | |
| - | W < 0.03 | Ignored | | | | | | | | | | |
| L < 5.0 | 0.03 < W < 0.05 | 2 | | | | | | | | | | |
| - | 0.05 < W | 0 | | | | | | | | | | |



15. 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.



16. 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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