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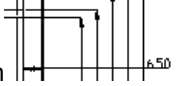
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Record of Revision

| Version and Date | Page | Old description | New Description |
|------------------|------|---|--|
| 0.0 2012/07/15 | All | First Edition | |
| 0.1 2012/09/11 | 22 | LVDS CN1 pin1 is on the right | CN1 pin1 is on the left |
| 0.2 2013/04/20 | 6 | Contrast ratio typ=1400 Weight 350g | Contrast ratio typ=3000 Weight 295g |
| | 11 | I_{VDD} typ=200 | I_{VDD} typ=20 |
| | 21 | | Correct some drawing dimension  |
| | 23 | Max. Weight: 14.5 kg / per carton | Max. Weight: 15.5 kg / per carton |
| 1.0 2013/07/20 | 6 | | Add R,G,B chromaticity |
| | 10 | Absolute ratings of environment operation and storage humidity 95 | Operation and storage humidity 90 Add dew point chart |
| | 13 | | Add maximum value of backlight LED forward voltage and power consumption |
| | 20 | | Add Note 3, Note 4 |
| 1.1 2013/10/15 | 6 | Brightness 400nits typ./300nits min. | Brightness 470nits typ./350nits min. |
| 1.2 2014/05/27 | 15 | 6.3 TFT-LCD Interface Signal Description | Pin3:GND & Pin4:VCC for 6 Bit Input Mode <small>Note4</small> |
| 1.3 2014/7/2 | 13 | | Add Operation Life: Typ 70,000 Hrs |
| 1.4 2014/7/2 | 13 | | Modify Operation Life: Typ 80,000 Hrs |
| 1.5 2014/12/15 | 6 | | Modify optical characteristics |
| | | | |
| | | | |
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1. Operating Precautions

- 1) Since front polarizer is easily damaged, please be cautious and not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or soft cloth.
- 5) Since the panel is made of glass, it may be broken or cracked if dropped or bumped on hard surface.
- 6) To avoid ESD (Electro Static Discharge) damage, be sure to ground yourself before handling TFT-LCD Module.
- 7) Do not open nor modify the module assembly.
- 8) Do not press the reflector sheet at the back of the module to any direction.
- 9) In case if a module has to be put back into the packing container slot after it was taken out from the container, do not press the center of the LED light bar edge. Instead, press at the far ends of the LED light bar edge softly. Otherwise the TFT Module may be damaged.
- 10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 11) TFT-LCD Module is not allowed to be twisted & bent even force is added on module in a very short time. Please design your display product well to avoid external force applying to module by end-user directly.
- 12) Small amount of materials without flammability grade are used in the TFT-LCD module. The TFT-LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.
- 13) Severe temperature condition may result in different luminance, response time and lamp ignition voltage.
- 14) Continuous operating TFT-LCD display under low temperature environment may accelerate lamp exhaustion and reduce luminance dramatically.
- 15) The data on this specification sheet is applicable when LCD module is placed in landscape position.
- 16) Continuous displaying fixed pattern may induce image sticking. It's recommended to use screen saver or shuffle content periodically if fixed pattern is displayed on the screen.

2. General Description

This specification applies to the Color Active Matrix Liquid Crystal Display G104XVN01.0 composed of a TFT-LCD display, a driver and power supply circuit, and a LED backlight system.

The screen format is intended to support XGA (1024(H) x 768(V)) screen and 16.2M (RGB 8-bits) or 262k colors (RGB 6-bits).

LED driving board for backlight unit is included in G104XVN01.0.

G104XVN01.0 designed with wide viewing angle; wide temperature and long life LED backlight is well suited for industrial applications.

G104XVN01.0 is a RoHS product.

2.1 Display Characteristics

The following items are characteristics summary on the table under 25 °C condition:

| Items | Unit | Specifications |
|---------------------------|---------|------------------------------------|
| Screen Diagonal | [inch] | 10.4 |
| Active Area | [mm] | 210.4 (H) x 157.8 (V) |
| Pixels H x V | | 1024 x 3(RGB) x 768 |
| Pixel Pitch | [mm] | 0.2055 x 0.2055 |
| Pixel Arrangement | | R.G.B. Vertical Stripe |
| Display Mode | | PSA, Normally Black |
| Nominal Input Voltage VDD | [Volt] | 3.3 (typ.) |
| Typical Power Consumption | [Watt] | 6.0W All black pattern |
| Weight | [Grams] | 295(Typ.) |
| Physical Size | [mm] | 238.6(H) x 175.8(V) x 6.5(D)(Typ.) |
| Electrical Interface | | 1 channel LVDS |
| Surface Treatment | | Anti-glare, Hardness 3H |
| Support Color | | 16.2M / 262K colors |
| Temperature Range | | |
| Operating | [°C] | -30 to +80 |
| Storage (Non-Operating) | [°C] | -30 to +80 |
| RoHS Compliance | | RoHS Compliance |

2.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25 (Room Temperature):

| Item | Unit | Conditions | Min. | Typ. | Max. | Remark |
|---|----------------------|---|--------|----------|--------|-----------|
| White Luminance | [cd/m ²] | I _F = 80mA/1 LED Line (center point) | 350 | 470 | - | Note 1 |
| Uniformity | % | 5 Points | 75 | 80 | - | Note 2, 3 |
| Contrast Ratio | | | 2500 | 3000 | - | Note 4 |
| Response Time | [msec] | Rising | - | 20 | 30 | Note 5 |
| | [msec] | Falling | - | 10 | 20 | |
| | [msec] | Raising + Falling | - | 30 | 50 | |
| Viewing Angle | [degree] [degree] | Horizontal (Right) CR = 10 (Left) | - - | 89 89 | - - | Note 6 |
| | [degree] [degree] | Vertical (Upper) CR = 10 (Lower) | - - | 89 89 | - - | |
| Color / Chromaticity Coordinates (CIE 1931) | | Red x | 0.570 | 0.620 | 0.670 | |
| | | Red y | 0.280 | 0.330 | 0.380 | |
| | | Green x | 0.300 | 0.350 | 0.400 | |
| | | Green y | 0.530 | 0.580 | 0.630 | |
| | | Blue x | 0.100 | 0.150 | 0.200 | |
| | | Blue y | 0.010 | 0.060 | 0.110 | |
| | | White x | 0.263 | 0.313 | 0.363 | |
| | | White y | 0.279 | 0.329 | 0.379 | |
| Color Gamut | % | | - | 60 | - | |

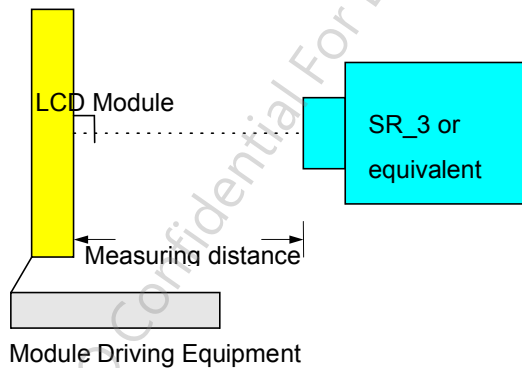
Note 1: Measurement method

Equipment Pattern Generator, Power Supply, Digital Voltmeter, Luminance meter (SR_3 or equivalent)

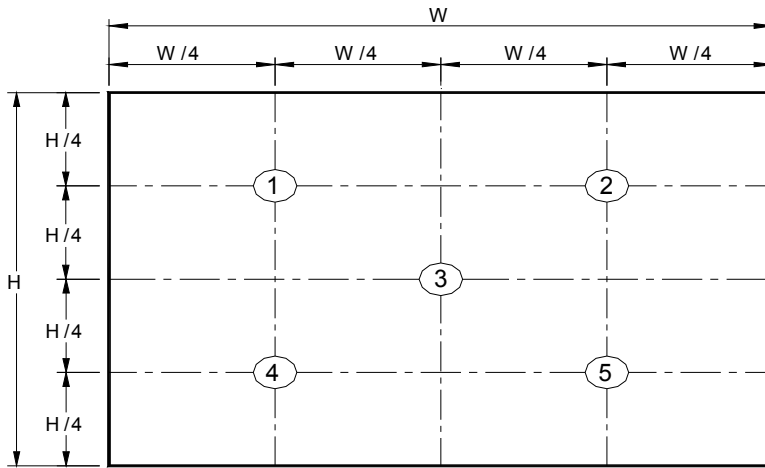
Aperture 1° with 50cm viewing distance

Test Point Center

Environment < 1 lux



Note 2: Definition of 5 points position (Display active area: 210.4mm (H) x 157.8mm (V))



Note 3: The luminance uniformity of 5 points is defined by dividing the minimum luminance values by the maximum test point luminance

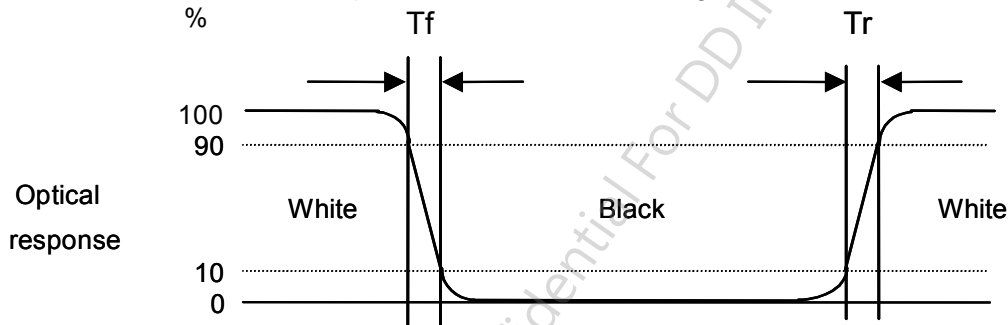
$$w_9 = \frac{\text{Minimum Brightness of five points}}{\text{Maximum Brightness of five points}}$$

Note 4: Definition of contrast ratio (CR):

$$\text{Contrast ratio (CR)} = \frac{\text{Brightness on the "White" state}}{\text{Brightness on the "Black" state}}$$

Note 5: Definition of response time:

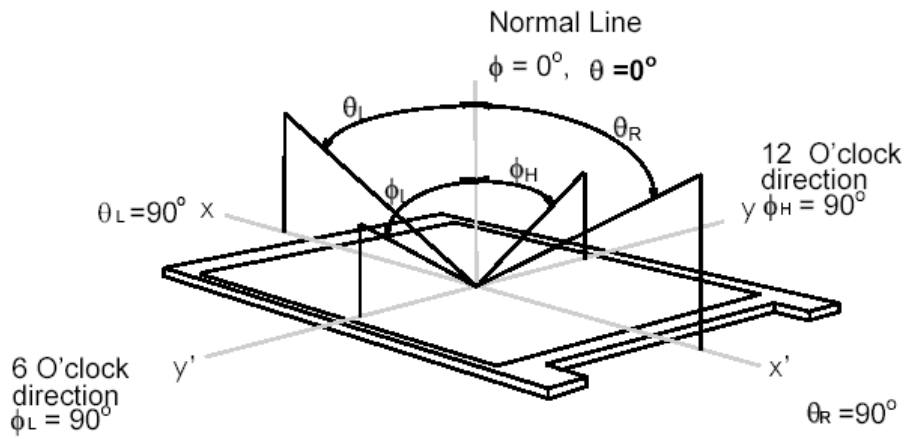
The output signals of photo detector are measured when the input signals are changed from "White" to "Black" (falling time) and from "Black" to "White" (rising time), respectively. The response time interval is between 10% and 90% of amplitudes. Please refer to the figure as below.



Note 6: Definition of viewing angle

Viewing angle is the measurement of contrast ratio 10, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as below: 90° (θ) horizontal left and right, and 90° (Φ) vertical high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated to its center to develop the desired

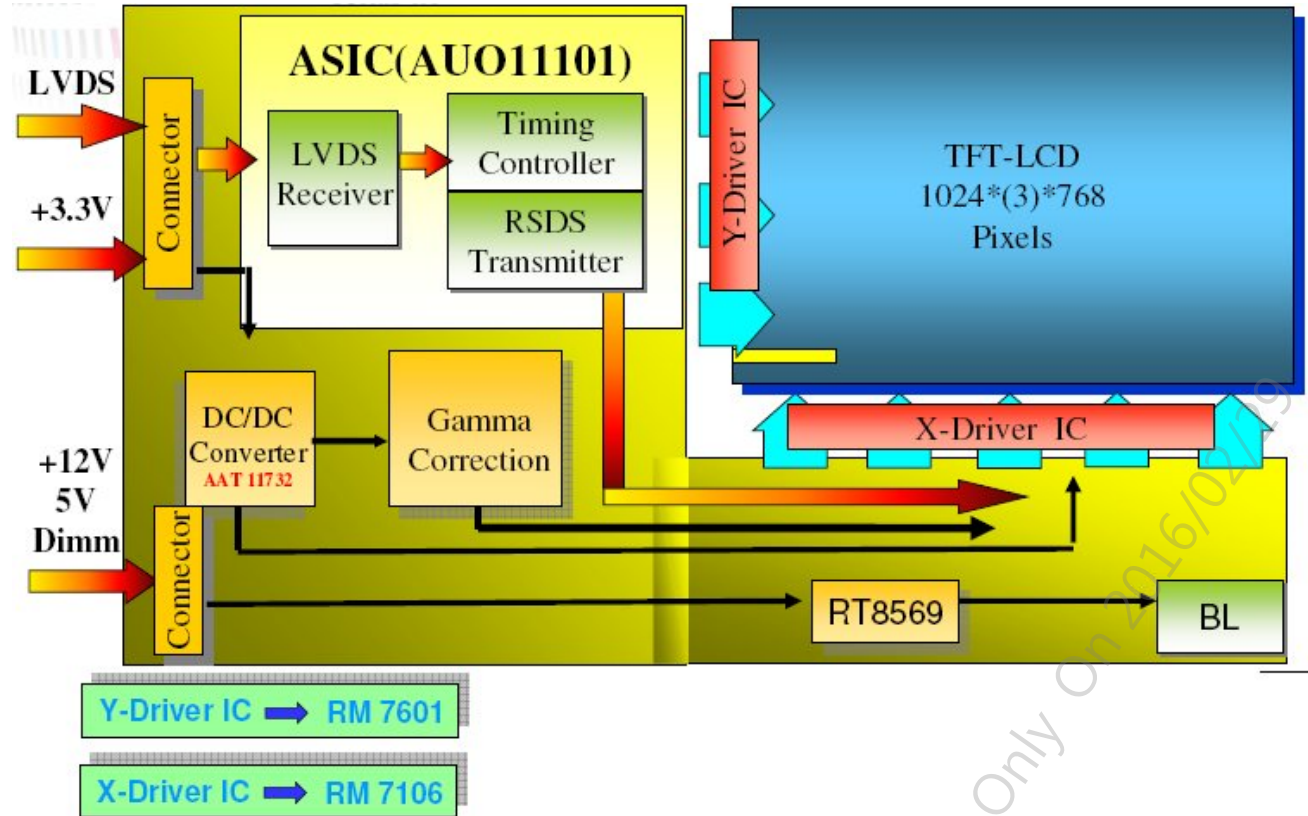
measurement viewing angle.



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3. Functional Block Diagram

The following diagram shows the functional block of the 10.4 inch color TFT/LCD module:



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4. Absolute Maximum Ratings

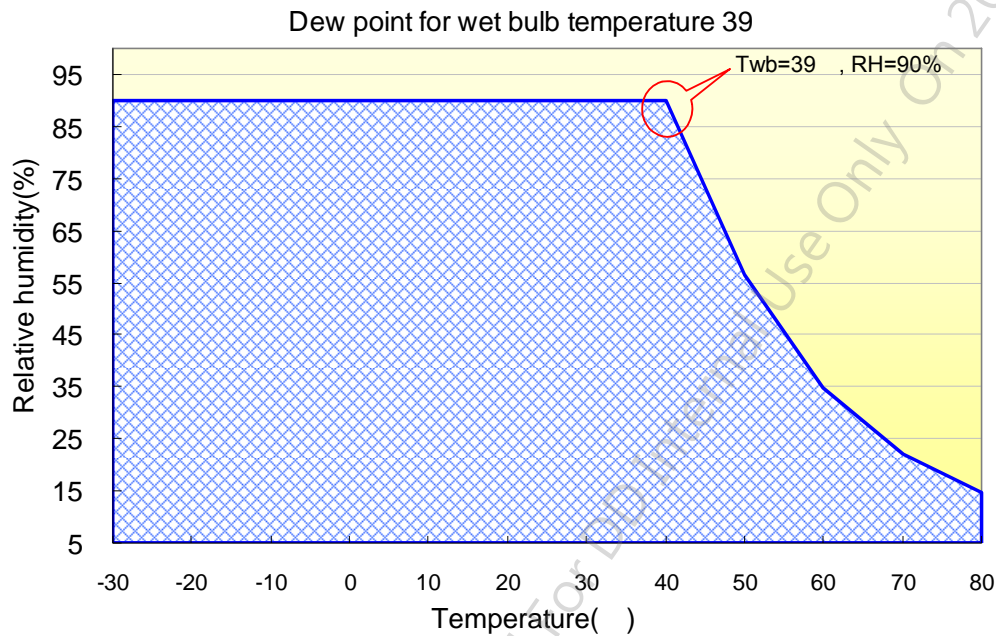
4.1 Absolute Ratings of TFT LCD Module

| Item | Symbol | Min | Max | Unit |
|-------------------------|--------|------|-----|--------|
| Logic/LCD Drive Voltage | Vin | -0.3 | 6 | [Volt] |

4.2 Absolute Ratings of Environment

| Item | Symbol | Min | Max | Unit |
|-----------------------|--------|-----|-----|-------|
| Operating Temperature | TOP | -30 | +80 | [°C] |
| Operation Humidity | HOP | 5 | 90 | [%RH] |
| Storage Temperature | TST | -30 | +80 | [°C] |
| Storage Humidity | HST | 5 | 90 | [%RH] |

Note: Maximum Wet-Bulb should be 39 and no condensation.



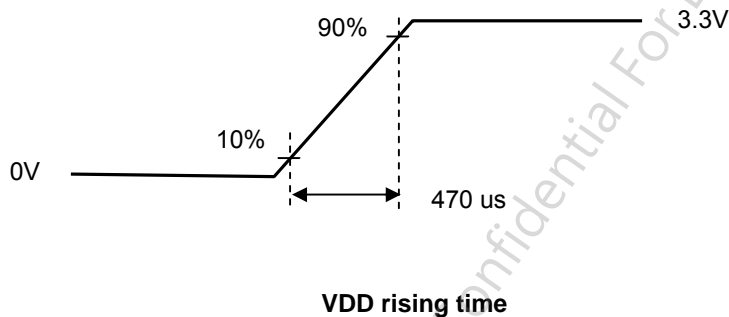
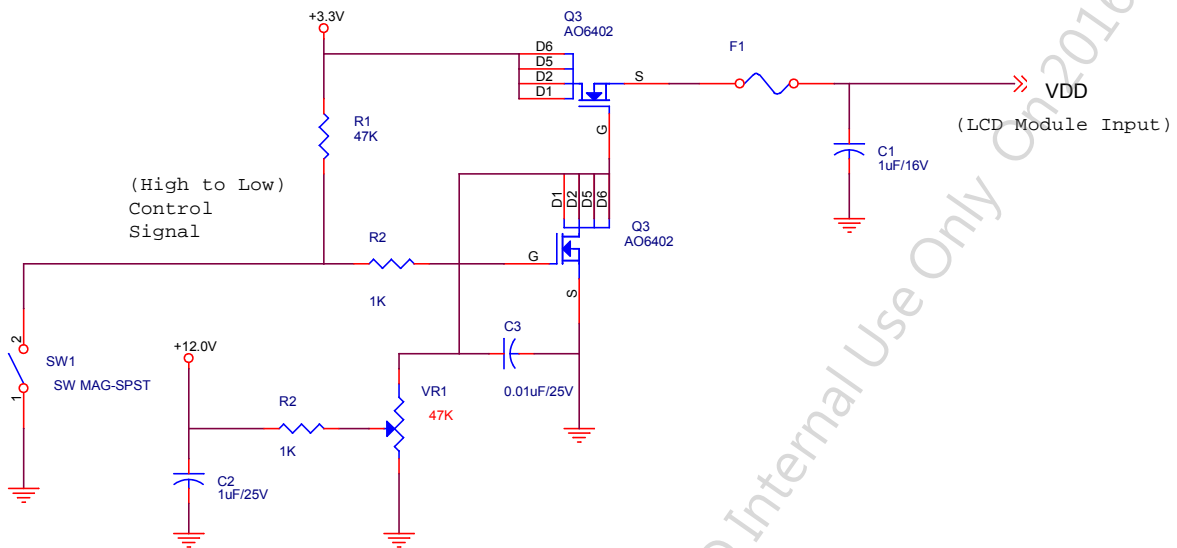
5. Electrical Characteristics

5.1 TFT LCD Module

5.1.1 Power Specification

| Symbol | Parameter | Min | Typ | Max | Units | Remark |
|-----------------------|--|-----|------|-----|-------------|--|
| VDD | Logic/LCD Input Voltage | 3.1 | 3.3 | 3.5 | [Volt] | |
| I _{VDD} | LCD Input Current | - | 300 | - | [mA] | VDD=3.3V at 60 HZ, all Black Pattern |
| P _{VDD} | LCD Power consumption | - | 0.99 | - | [Watt] | VDD=3.3V at 60 HZ, all Black Pattern |
| I _{rush LCD} | LCD Inrush Current | - | - | 1.5 | [A] | Note 1; VDD=3.3V Black Pattern, Rising time=470us |
| VDD _{TP} | Allowable Logic/LCD Drive Ripple Voltage | - | - | 100 | [mV] p-p | VDD=3.3V at 60 HZ, all Black Pattern |

Note 1: Measurement condition:



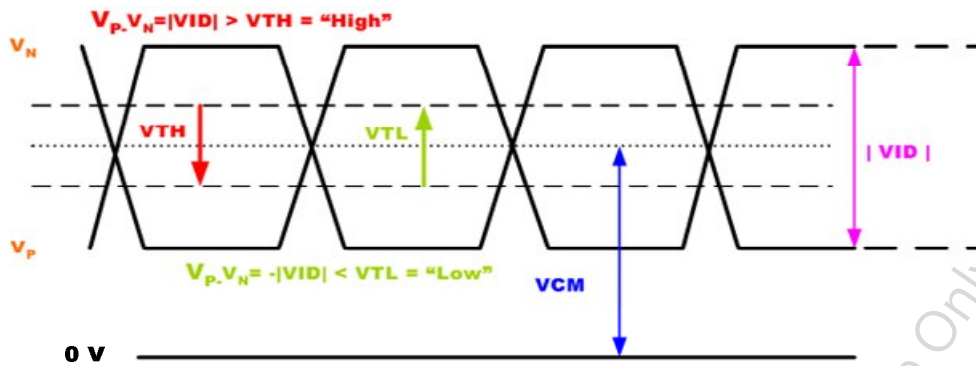
5.1.2 Signal Electrical Characteristics

Input signals shall be low or Hi-Z state when VDD is off.

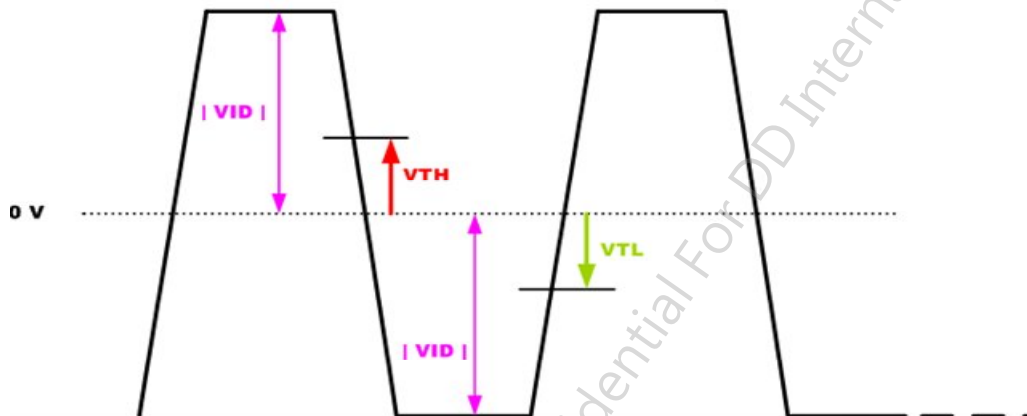
| Symbol | Item | Min. | Typ. | Max. | Unit | Remark |
|--------|--|------|------|------|------|-----------------|
| VTH | Differential Input High Threshold | - | - | 100 | [mV] | VCM=1.2V |
| VTL | Differential Input Low Threshold | 100 | - | - | [mV] | VCM=1.2V |
| VID | Input Differential Voltage | 100 | 400 | 600 | [mV] | |
| VICM | Differential Input Common Mode Voltage | 1.1 | - | 1.45 | [V] | VTH/VTL=+-100mV |

Note: LVDS Signal Waveform.

Single-end Signal



Differential Signal



5.2 Backlight Unit

5.2.1 Parameter guideline for LED backlight

Following characteristics are measured under a stable condition using a inverter at 25 °C (Room Temperature):

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Remark |
|-------------------------|-----------------------|--------|---------------|------|--------|--------------------------------------|
| VCC | Input Voltage | 10.8 | 12 | 12.6 | [Volt] | |
| I _{VCC} | Input Current | - | 0.5 | - | [A] | 100% PWM Duty |
| P _{VCC} | Power Consumption | - | 6 | - | [Watt] | 100% PWM Duty |
| I _{INRUSH LED} | Inrush Current | - | - | 3 | A | V _{LED} rising time ~ 470us |
| F _{PWM} | Dimming Frequency | 200 | - | 20K | [Hz] | |
| V _{LED ON/OFF} | On Control Voltage | 2.5 | 3.3 | 5.5 | Volt | Note 4,5 |
| | Off Control Voltage | - | - | 0.8 | Volt | |
| V _{PWM DIM} | Swing Voltage | 2.5 | 3.3 | 5.5 | [Volt] | |
| | Dimming duty cycle | 5 | - | 100 | % | |
| I _F | LED Forward Current | - | 80 | - | [mA] | Ta = 25°C |
| V _F | LED Forward Voltage | - | - | 34.2 | [Volt] | I _F = 80mA, Ta = -30°C |
| | | - | 29.7 | 32.4 | [Volt] | I _F = 80mA, Ta = 25°C |
| | | - | - | 31.5 | [Volt] | I _F = 80mA, Ta = 80°C |
| P _{LED} | LED Power Consumption | - | 4.75 | 5.47 | [Watt] | 2 String of LED Light Bar |
| Operation Life | | 50,000 | 80,000 | - | Hrs | I _F =80mA, Ta= 25°C |

Note 1: Ta means ambient temperature of TFT-LCD module.

Note 2: VCC, I_{VCC}, I_{rush LED}, P_{VCC} are defined for LED backlight.(100% duty of PWM dimming)

Note 3: I_F, V_F are defined for one channel LED. There are two LED channel in back light unit.

Note 4: PWM dimming function can be operated by PWM signal. PWM duty cycle can adjust white Luminance.

(PWM High: ON and PWM Low: OFF)

Note 5: PWM signal can not be floating and pull-down to ground when waiting.

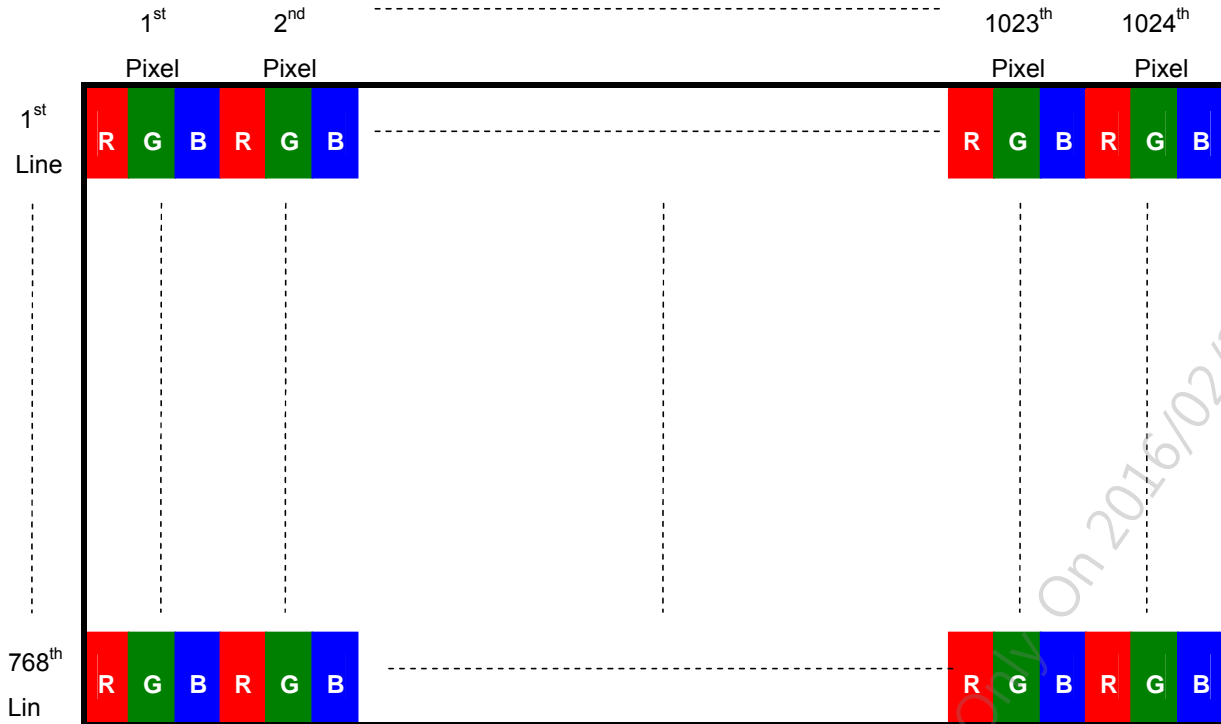
Note 6: If G104XVN01.0 module is driven by high current or at high ambient temperature & humidity condition. The operating life will be reduced.

Note 7: Operating life means brightness goes down to 50% initial brightness. Minimum operating life time is estimated data.

6. Signal Characteristics

6.1 Pixel Format Image

Following figure shows the relationship between input signal and LCD pixel format.



6.2 Scanning Direction

The following figures show the image seen from the front view. The arrow indicates the direction of scan.

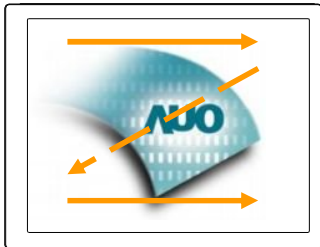


Fig. 1 Normal scan (Pin24, **Reverse** = Low or NC)



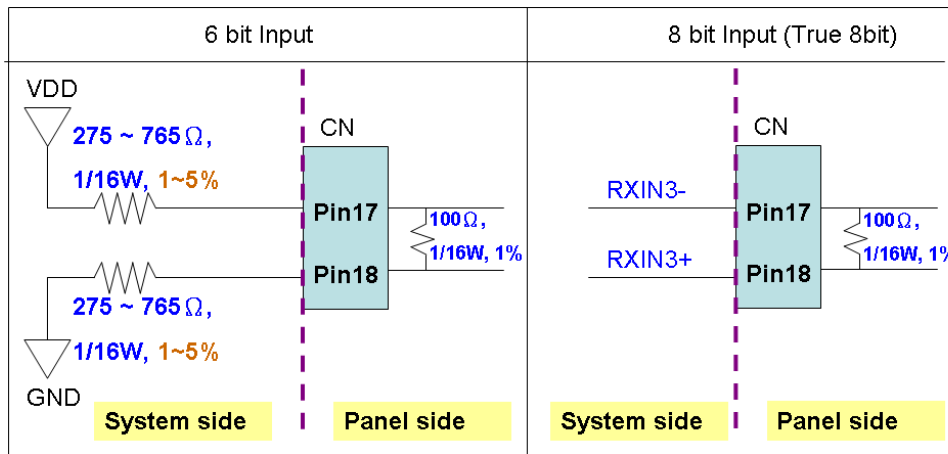
Fig. 2 Reverse scan (Pin24, **Reverse** = High)

6.3 TFT-LCD Interface Signal Description

The module using a LVDS receiver embaded in AUO's ASIC. LVDS is a differential signal technology for LCD interface and a high-speed data transfer device.

| Pin No. | Signal Name | Description |
|---------|-------------|--|
| 1 | NC | No Connection |
| 2 | GND | Ground |
| 3 | Rin3+ | Positive LVDS differential data input (+) GND for 6 Bit Input Mode <small>Note4</small> |
| 4 | Rin3- | Negative LVDS differential data input (-) VCC for 6 Bit Input Mode <small>Note4</small> |
| 5 | GND | Ground |
| 6 | CLK+ | Clock signal (+) |
| 7 | CLK- | Clock signal (-) |
| 8 | GND | Ground |
| 9 | Rin2+ | Positive LVDS differential data input (+) |
| 10 | Rin2- | Negative LVDS differential data input (-) |
| 11 | GND | Ground |
| 12 | Rin1+ | Positive LVDS differential data input (+) |
| 13 | Rin1- | Negative LVDS differential data input (-) |
| 14 | GND | Ground |
| 15 | Rin0+ | Positive LVDS differential data input (+) |
| 16 | Rin0- | Negative LVDS differential data input (-) |
| 17 | GND | Ground |
| 18 | NC | No Connection |
| 19 | GND | Ground |
| 20 | SEL6/8 | Selection for 6 bits/8bits LVDS data input Low or NC -> 8 bit Input Mode High -> 6bit Input Mode |
| 21 | NC | No Connection |
| 22 | NC | No Connection |
| 23 | NC | No Connection |
| 24 | Reverse | Reverse Panel Function (Display Rotation) |
| 25 | GND | Ground |
| 26 | GND | Ground |
| 27 | GND | Ground |
| 28 | VCC | Power supply: +3.3V |
| 29 | VCC | Power supply: +3.3V |
| 30 | VCC | Power supply: +3.3V |

Note 1: Input Signals shall be in low status when VCC is off.
 Note 2: High stands for "3.3V", Low stands for "0V", NC stands for "No Connection".
 Note 3: RSV stands for "Reserved".
 Note 4:

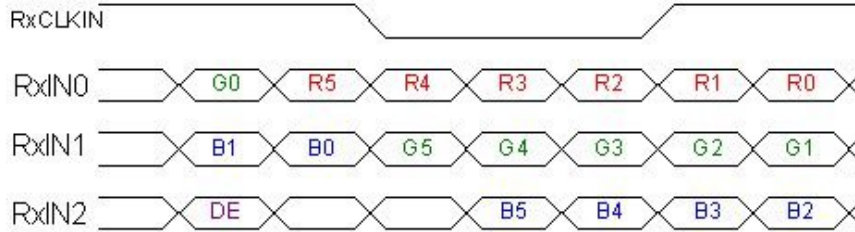


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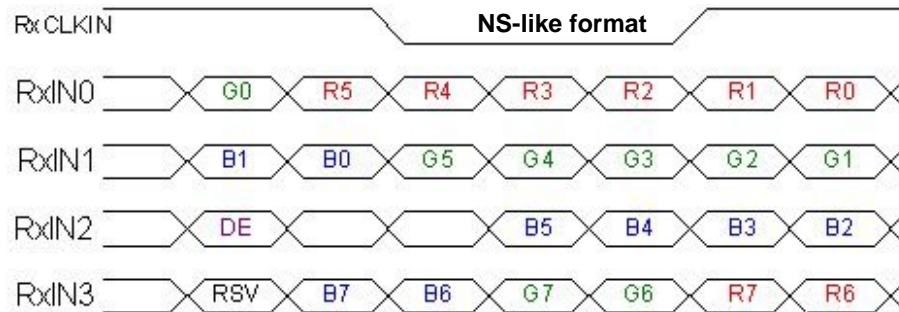
6.4 The Input Data Format

6.4.1 SEL68

SEL68 = "High" for 6 bits LVDS Input



SEL68 = "Low" or "NC" for 8 bits LVDS Input



Note1: Please follow PSWG.

Note2: R/G/B data 7:MSB, R/G/B data 0:LSB

| Signal Name | Description | Remark |
|--|--|--|
| R7 R6 R5 R4 R3 R2 R1 R0 | Red Data 7 Red Data 6 Red Data 5 Red Data 4 Red Data 3 Red Data 2 Red Data 1 Red Data 0 | Red-pixel Data For 8Bits LVDS input MSB: R7 ; LSB: R0 For 6Bits LVDS input MSB: R5 ; LSB: R0 |
| G7 G6 G5 G4 G3 G2 G1 G0 | Green Data 7 Green Data 6 Green Data 5 Green Data 4 Green Data 3 Green Data 2 Green Data 1 Green Data 0 | Green-pixel Data For 8Bits LVDS input MSB: G7 ; LSB: G0 For 6Bits LVDS input MSB: G5 ; LSB: G0 |
| B7 B6 B5 B4 B3 B2 B1 B0 | Blue Data 7 Blue Data 6 Blue Data 5 Blue Data 4 Blue Data 3 Blue Data 2 Blue Data 1 Blue Data 0 | Blue-pixel Data For 8Bits LVDS input MSB: B7 ; LSB: B0 For 6Bits LVDS input MSB: B5 ; LSB: B0 |
| RxCLKIN | LVDS Data Clock | |
| DE | Data Enable Signal | When the signal is high, the pixel data shall be valid to be displayed. |

Note: Output signals from any system shall be low or Hi-Z state when VDD is off.

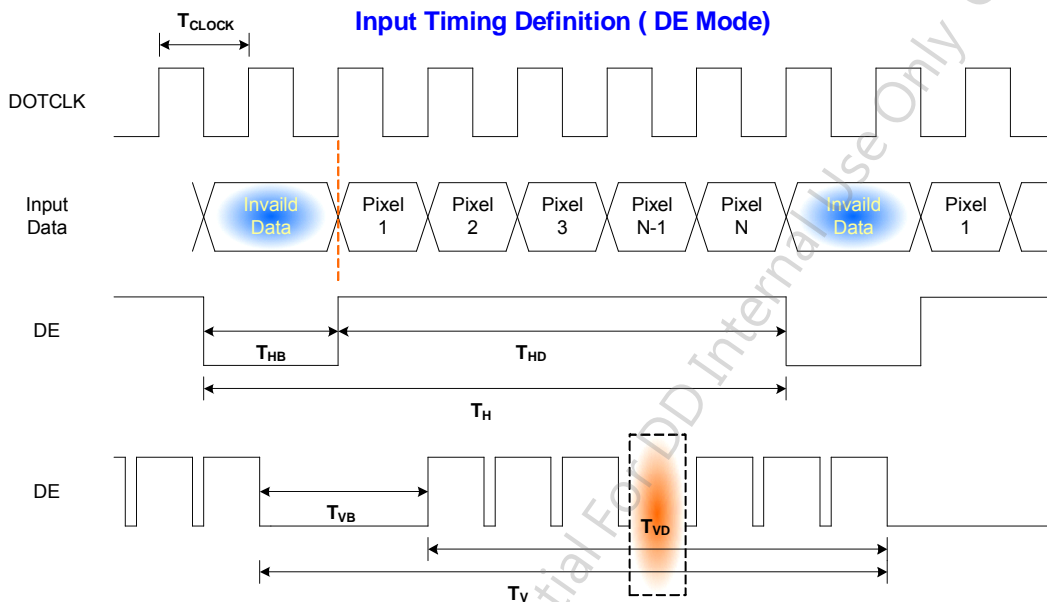
6.5 TFT-LCD Interface Timing

6.5.1 Timing Characteristics

| Signal | Symbol | Min. | Typ. | Max. | Unit |
|--------------------|----------------------|----------|------|------|--------------------|
| Clock Frequency | $1/T_{\text{Clock}}$ | 50 | 65 | 81 | MHz |
| Vertical Section | Period | T_V | 776 | 806 | T_{Line} |
| | Active | T_{VD} | 768 | 768 | |
| | Blanking | T_{VB} | 8 | 38 | |
| Horizontal Section | Period | T_H | 1054 | 1344 | T_{Clock} |
| | Active | T_{HD} | 1024 | 1024 | |
| | Blanking | T_{HB} | 30 | 320 | |
| Frame Rate | F | 50 | 60 | 75 | Hz |

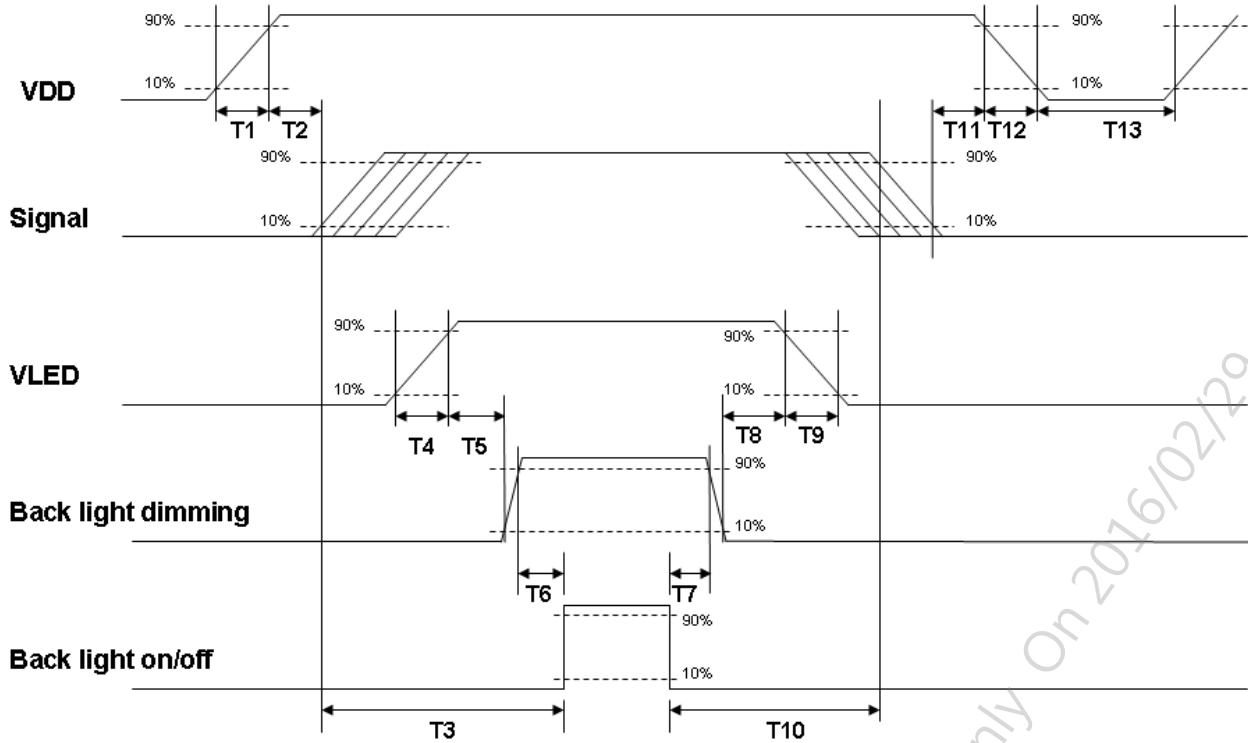
Note : DE mode.

6.5.2 Input Timing Diagram



6.6 Power ON/OFF Sequence

VDD power and lamp on/off sequence is as below. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off.



Power ON/OFF sequence timing

| Parameter | Value | | | Units |
|-----------|-------|------|------|-------|
| | Min. | Typ. | Max. | |
| T1 | 0.5 | - | 10 | [ms] |
| T2 | 30 | 40 | 50 | [ms] |
| T3 | 200 | -- | -- | [ms] |
| T4 | 0.5 | -- | 10 | [ms] |
| T5 | 10 | - | - | [ms] |
| T6 | 10 | - | - | [ms] |
| T7 | 0 | - | - | [ms] |
| T8 | 10 | - | - | [ms] |
| T9 | -- | -- | 10 | [ms] |
| T10 | 110 | -- | -- | [ms] |
| T11 | 0 | 16 | 50 | [ms] |
| T12 | - | - | 10 | [ms] |
| T13 | 1000 | - | - | [ms] |

The above on/off sequence should be applied to avoid abnormal function in the display. Please make sure to turn off the power when you plug the cable into the input connector or pull the cable out of the connector.

7. Connector & Pin Assignment

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

7.1 TFT-LCD Signal (CN1): LVDS Connector

| Connector Name / Designation | Signal Connector |
|------------------------------|--------------------------------------|
| Manufacturer | JAE or compatible |
| Connector Model Number | FI-XPB30SRLAHF11 or compatible |
| Adaptable Plug | FI-X30HL or Compatible or compatible |

| Pin No. | Symbol | Pin No. | Symbol |
|---------|--------|---------|---------|
| 1 | NC | 16 | Rin0- |
| 2 | GND | 17 | GND |
| 3 | Rin3+ | 18 | NC |
| 4 | Rin3- | 19 | GND |
| 5 | GND | 20 | SEL6/8 |
| 6 | CLK+ | 21 | NC |
| 7 | CLK- | 22 | NC |
| 8 | GND | 23 | NC |
| 9 | Rin2+ | 24 | Reverse |
| 10 | Rin2- | 25 | GND |
| 11 | GND | 26 | GND |
| 12 | Rin1+ | 27 | GND |
| 13 | Rin1- | 28 | VCC |
| 14 | GND | 29 | VCC |
| 15 | Rin0+ | 30 | VCC |

7.2 LED Backlight Unit (CN2): Driver Connector

| Connector Name / Designation | Lamp Connector |
|------------------------------|------------------------------|
| Manufacturer | ENTERY or compatible |
| Connector Model Number | 3808K-F05N-02R or compatible |
| Mating Model Number | H208K-P05N-02B or compatible |

| Pin No. | symbol | description |
|---------|---------|----------------------|
| Pin1 | VCC | 12V input |
| Pin2 | VCC | 12V input |
| Pin3 | GND | GND |
| Pin4 | Dimming | PWM |
| Pin5 | On/OFF | 3.3V or 5V-ON,0V-OFF |

7.3 LED Backlight Unit (CN3): Light bar Connector

| | |
|-------------------------------------|------------------------------|
| Connector Name / Designation | Lamp Connector |
| Manufacturer | ENTERY or compatible |
| Connector Model Number | H208K-P03N-02R or compatible |
| Mating Model Number(CN3) | 3808K-F03N-02B or compatible |

| Pin No. | symbol | description | Color |
|---------|--------|-------------|-------|
| Pin1 | H | LED anode | Red |
| Pin2 | L | LED cathode | White |
| Pin3 | L | LED cathode | White |

8. Reliability Test Criteria

| Items | Required Condition | Note |
|--------------------------------|---|-------|
| Temperature Humidity Bias | 40 , 90%RH, 300 hours | Note3 |
| High Temperature Operation | 80 , 300 hours | Note3 |
| Low Temperature Operation | -30 , 300 hours | Note3 |
| Hot Storage | 80 , 300 hours | Note3 |
| Cold Storage | -30 , 300 hours | Note3 |
| Thermal Shock Test | -20 / 30 min, 60 / 30 min, 100cycles, 40 minimum ramp rate | Note3 |
| Hot Start Test | 80 / 1Hr min. power on/off per 5 minutes, 5 times | |
| Cold Start Test | -30 / 1Hr min. power on/off per 5 minutes, 5 times | |
| Shock Test (Non-Operating) | 50G, 20ms, Half-sine wave, (±X, ±Y, ±Z) | |
| Vibration Test (Non-Operating) | 1.5G, (10~200Hz, Sine wave) 30 mins/axis, 3 direction (X, Y, Z) | |
| On/off test | On/10 sec, Off/10 sec, 30,000 cycles | Note4 |
| ESD | Contact Discharge: ± 8KV, 150pF(330Ω) 1sec, 8 points, 25 times/ point Air Discharge: ± 15KV, 150pF(330Ω) 1sec, 8 points, 25 times/ point | Note1 |
| EMI | 30-230 MHz, limit 40 dBu V/m, 230-1000 MHz, limit 47 dBu V/m | |

Note1: According to EN61000-4-2, ESD class B: Some performance degradation allowed. No data lost
Self-recoverable. No hardware failures.

Note2:

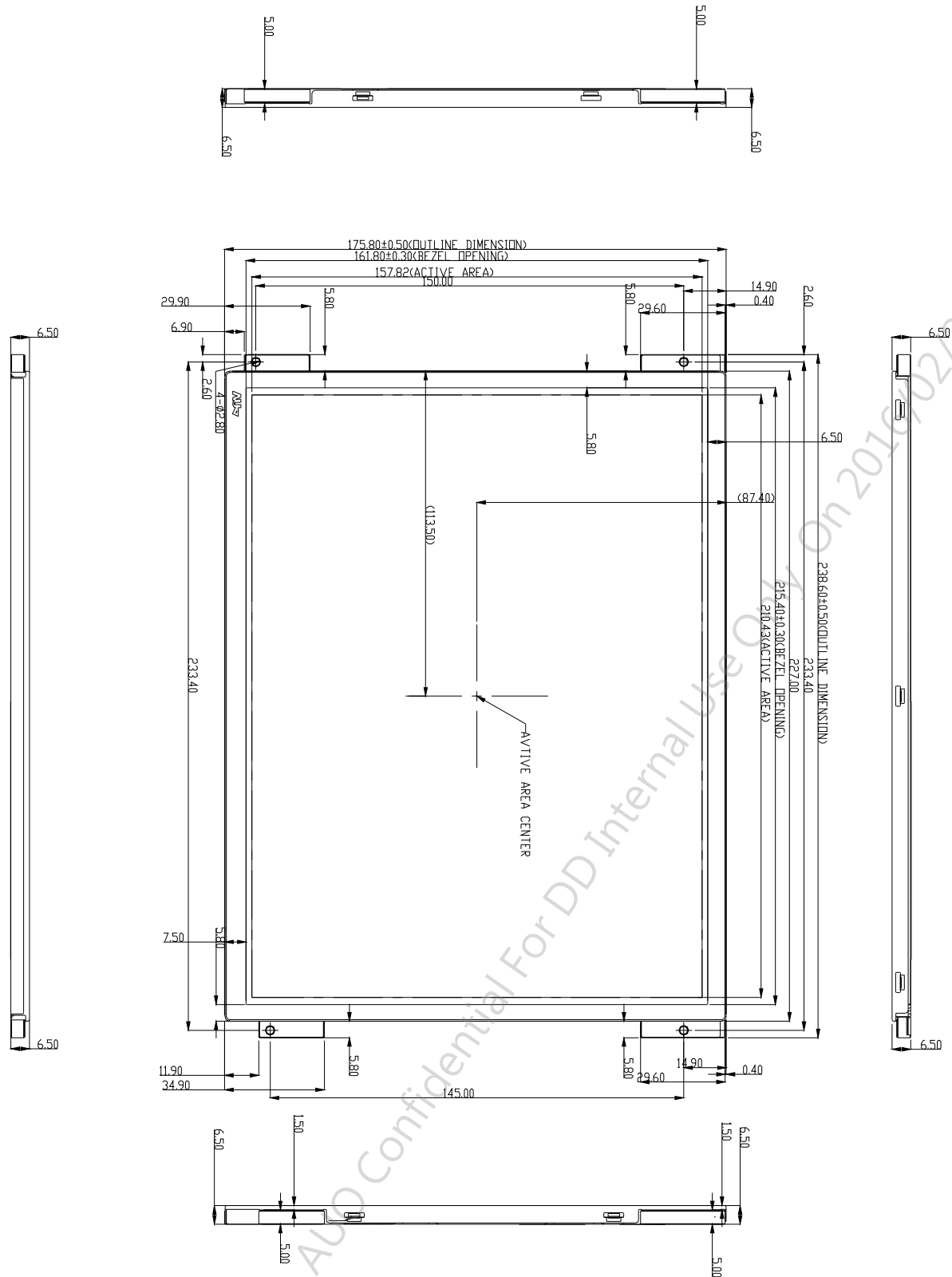
- Water condensation is not allowed for each test items.
- Each test is done by new TFT-LCD module. Don't use the same TFT-LCD module repeatedly for reliability test.
- The reliability test is performed only to examine the TFT-LCD module capability.

Note3. To inspect TFT-LCD module after reliability test, please store it at room temperature and room humidity for 2 hours at least in advance.

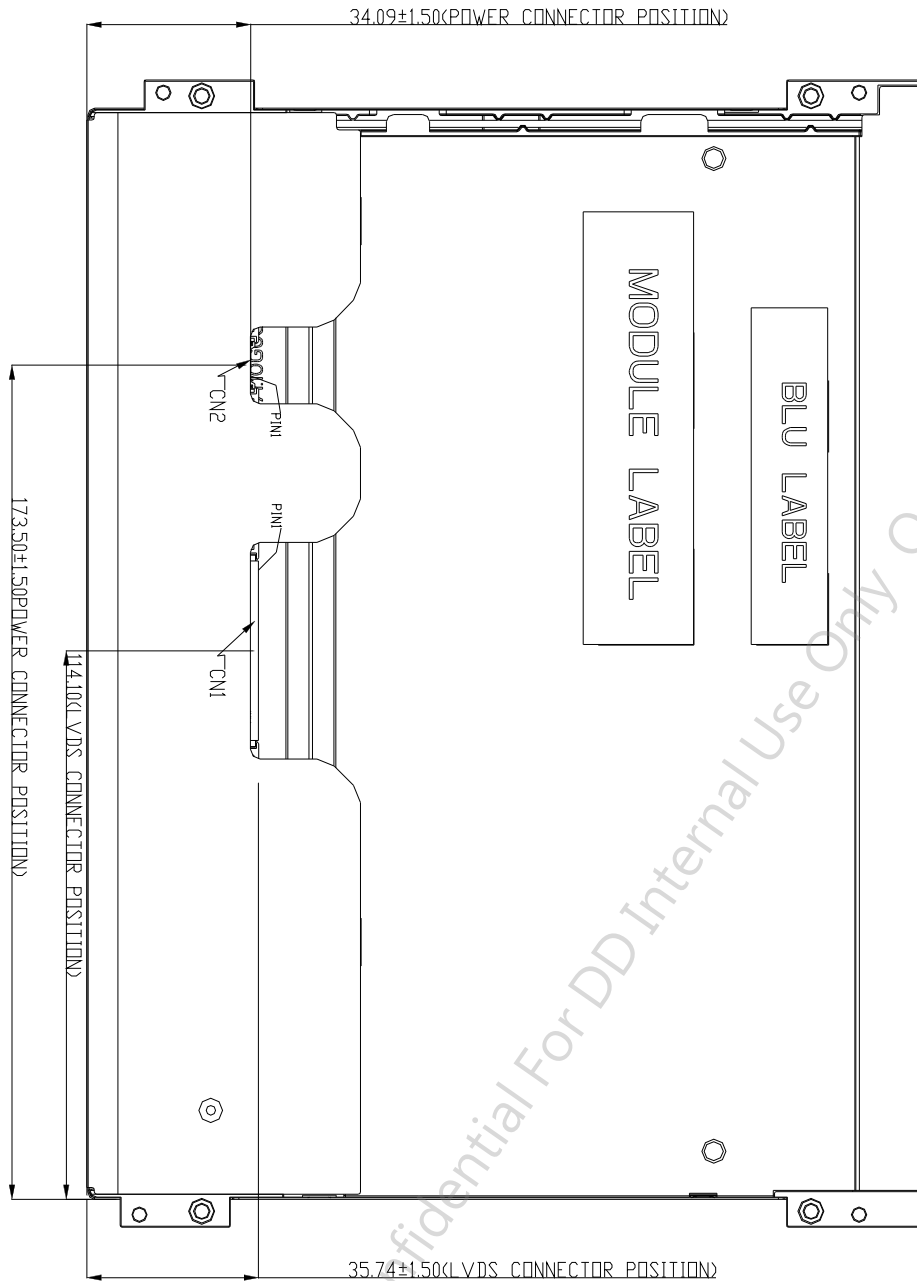
Note4. Judged by the on/off testing results of AUO's standard w/o functional fail

9. Mechanical Characteristics

9.1 LCM Outline Dimension (Front View)



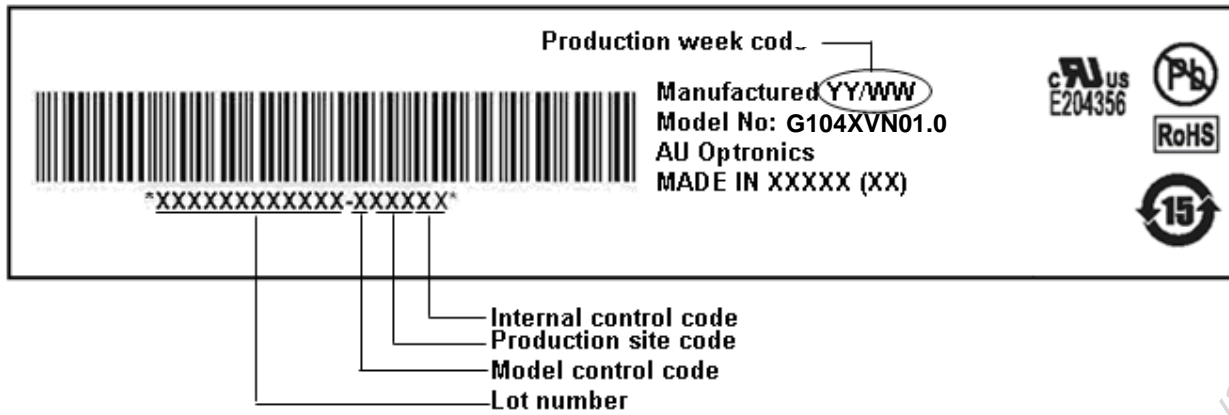
9.2 LCM Outline Dimension (Rear View)



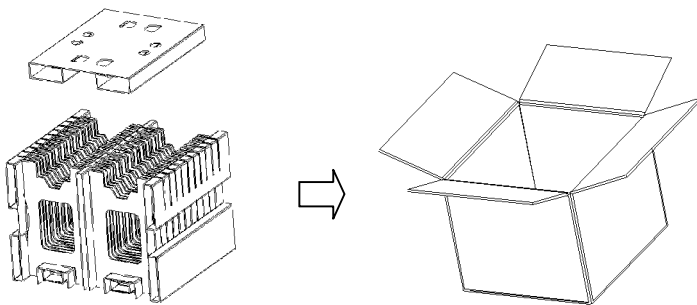
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10. Label and Packaging

10.1 Shipping Label (on the rear side of TFT-LCD display)



10.2 Carton Package



Note:

1. Max. Capacity: 40pcs LCD Modules / per carton
2. Max. Weight: 15.5 kg / per carton
3. The outside dimension of carton is 458(L) mm x 412(W) mm x 368(H) mm

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11 Safety

11.1 Sharp Edge Requirements

There will be no sharp edges or comers on the display assembly that could cause injury.

11.2 Materials

11.2.1 Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible AUO toxicologist.

11.2.2 Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process.

The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

11.3 Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

11.4 National Test Lab Requirement

The display module will satisfy all requirements for compliance to:

UL 1950, First Edition

U.S.A. Information Technology Equipment

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