




Product Specification

AU OPTRONICS CORPORATION

(☒) Preliminary Specifications

(☐) Final Specifications

| | |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Module | 10.1" WSVGA Color TFT-LCD with LED Backlight design |
| Model Name | B101AW01 V1 |
| Note () | <i>LED Backlight with driving circuit design</i> |

Customer

Date

Checked &
Approved by

Date

Note: This Specification is subject to change without notice.

Approved by

Date

Jerry Chen

07/15/2008

Prepared by

Pei-Ching Huang

07/15/2008

**NBBU Marketing Division /
AU Optronics corporation**

Contents

| | |
|-----------------------------------------------------|-----------|
| 1. Handling Precautions | 4 |
| 2. General Description | 5 |
| 2.1 General Specification | 5 |
| 2.2 Optical Characteristics | 6 |
| 3. Functional Block Diagram | 11 |
| 4. Absolute Maximum Ratings | 12 |
| 4.1 Absolute Ratings of TFT LCD Module..... | 12 |
| 4.2 Absolute Ratings of Environment..... | 12 |
| 5. Electrical characteristics | 13 |
| 5.1 TFT LCD Module..... | 13 |
| 5.2 Backlight Unit | 15 |
| 6. Signal Characteristic | 16 |
| 6.1 Pixel Format Image..... | 16 |
| 6.2 The input data format..... | 17 |
| 6.3 Integration Interface and Pin Assignment | 18 |
| 6.4 Interface Timing | 21 |
| 7. Connector Description..... | 24 |
| 7.1 TFT LCD Module..... | 24 |
| 8. LED Driving Specification | 25 |
| 8.1 Connector Description | 25 |
| 8.2 Pin Assignment | 25 |
| 9. Vibration and Shock Test | 26 |
| 9.1 Vibration Test | 26 |
| 9.2 Shock Test Spec: | 26 |
| 10. Reliability | 27 |
| 11. Mechanical Characteristics | 28 |
| 11.1 LCM Outline Dimension | 28 |
| 11.2 Screw Hole Depth and Center Position..... | 30 |
| 12. Shipping and Package | 31 |
| 12.1 Shipping Label Format..... | 31 |
| 12.2 Carton package..... | 32 |
| 12.3 Shipping package of palletizing sequence | 33 |
| 13. Appendix: EDID description | 34 |



Product Specification

AU OPTRONICS CORPORATION

Record of Revision

| Version and Date | Page | Old description | New Description | Remark |
|------------------|------|----------------------------|-----------------|--------|
| 0.1 2008/07/15 | All | First Edition for Customer | | |
| | | | | |
| | | | | |

1. Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention 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 other soft cloth.
- 5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- 7) Do not open nor modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 9) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 10) After installation of the TFT Module into an enclosure (Notebook PC Bezel, for example), do not twist nor bend the TFT Module even momentarily. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 11) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.
- 12) Disconnecting power supply before handling LCD modules, it can prevent electric shock, DO NOT TOUCH the electrode parts, cables, connectors and LED circuit part of TFT module that a LED light bar build in as a light source of back light unit. It can prevent electrostatic breakdown.

2. General Description

B101AW01 V0 is a Color Active Matrix Liquid Crystal Display composed of a TFT LCD panel, a driver circuit, and LED backlight system. The screen format is intended to support the WSVGA (1024(H) x 576(V)) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B101AW01 V0 is designed for a display unit of notebook style personal computer and industrial machine.

2.1 General Specification

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

| Items | Unit | Specifications | | | |
|-------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------|-------|-------|-------|
| Screen Diagonal | [mm] | 255.54 (10.1 W") | | | |
| Active Area | [mm] | 222.72 x 125.28 | | | |
| Pixels H x V | | 1024 x 3(RGB) x 576 | | | |
| Pixel Pitch | [mm] | 0.2175 X 0.2175 | | | |
| Pixel Format | | R.G.B. Vertical Stripe | | | |
| Display Mode | | Normally White | | | |
| White Luminance (I _{LED} =20mA) (Note: I _{LED} is LED current) | [cd/m ²] | 200 typ. (5 points average) 170 min. (5 points average) | | | |
| Luminance Uniformity | | 1.25 max. (5 points) | | | |
| Contrast Ratio | | 500:1 typ | | | |
| Response Time | [ms] | 8 typ / 16 Max | | | |
| Nominal Input Voltage VDD | [Volt] | +3.3 typ. | | | |
| Power Consumption | [Watt] | 3.0 max. (Include Logic and Blu power) | | | |
| Weight | [Grams] | 190 max. | | | |
| Physical Size without inverter, bracket. | [mm] | | Min. | Typ. | Max. |
| | | Length | 234.5 | 235.0 | 235.5 |
| | | Width | 142.5 | 143.0 | 143.5 |
| | | Thickness | - | - | 5.2 |
| Electrical Interface | | 1 channel LVDS | | | |
| Surface Treatment | | Glare, Hardness 3H | | | |
| Support Color | | 262K colors (RGB 6-bit) | | | |



Product Specification

AU OPTRONICS CORPORATION

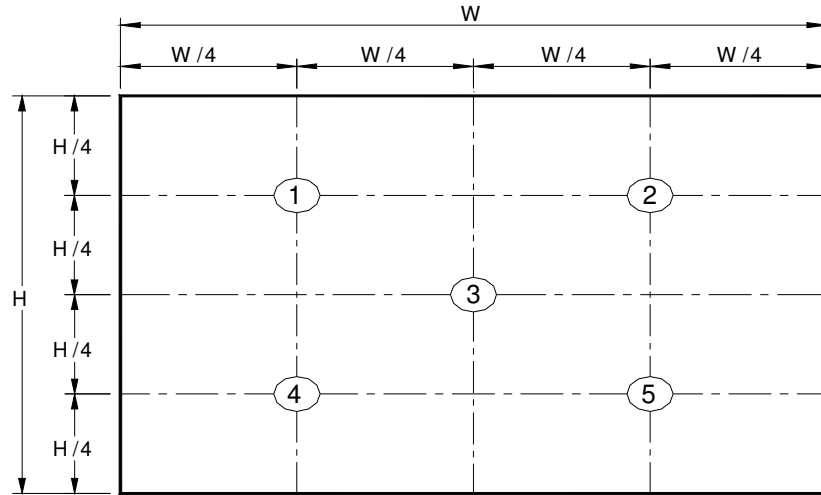
| | | |
|-----------------------------------------------------------|--------------|------------------------|
| Temperature Range Operating Storage (Non-Operating) | [°C] [°C] | 0 to +50 -20 to +60 |
| RoHS Compliance | | RoHS Compliance |

2.2 Optical Characteristics

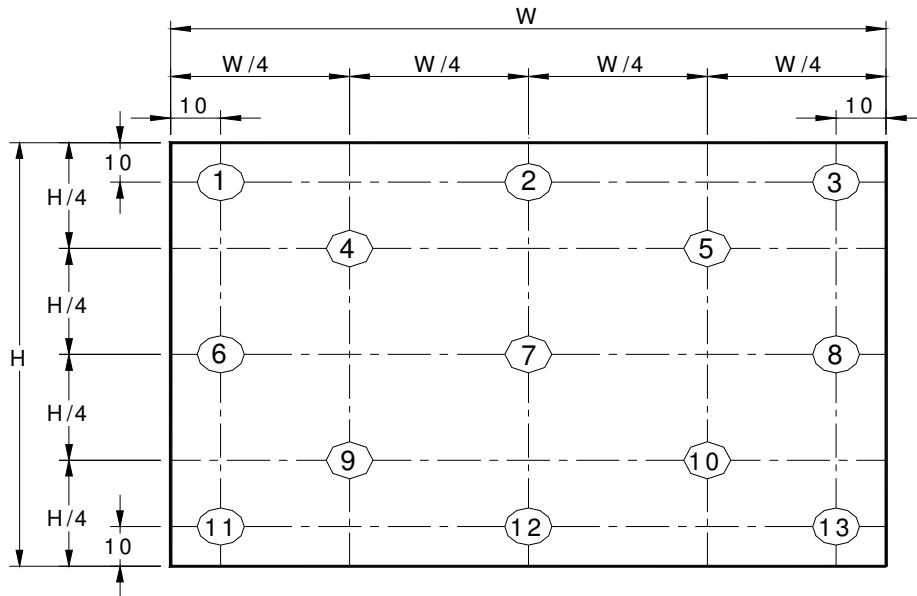
The optical characteristics are measured under stable conditions at 25°C (Room Temperature) :

| Item | | Symbol | Conditions | Min. | Typ. | Max. | Unit | Note |
|-------------------------------------------|-------|------------------|--------------------------------------|-------|-------|-------|-------------------|----------|
| White Luminance I _{LED} =20mA | | | 5 points average | 170 | 200 | - | cd/m ² | 1, 4, 5. |
| Viewing Angle | | θ _R | Horizontal (Right) CR = 10 (Left) | 40 | 45 | - | degree | 4, 9 |
| | | θ _L | | 40 | 45 | - | | |
| | | ψ _H | Vertical (Upper) CR = 10 (Lower) | 10 | 15 | - | | |
| | | ψ _L | | 30 | 35 | - | | |
| Luminance Uniformity | | δ _{5P} | 5 Points | - | - | 1.25 | | 1, 3, 4 |
| Luminance Uniformity | | δ _{13P} | 13 Points | - | - | - | | 2, 3, 4 |
| Contrast Ratio | | CR | | 400 | 500 | - | | 4, 6 |
| Cross talk | | % | | | | 4 | | 4, 7 |
| Response Time | | T _r | Rising | - | - | - | msec | 4, 8 |
| | | T _f | Falling | - | - | - | | |
| | | T _{RT} | Rising + Falling | - | 8 | 16 | | |
| Color / Chromaticity Coordinates | Red | R _x | CIE 1931 | - | TBD | - | | 4 |
| | | R _y | | - | TBD | - | | |
| | Green | G _x | | - | TBD | - | | |
| | | G _y | | - | TBD | - | | |
| | Blue | B _x | | - | TBD | - | | |
| | | B _y | | - | TBD | - | | |
| | White | W _x | | 0.283 | 0.313 | 0.343 | | |
| | | W _y | | 0.299 | 0.329 | 0.359 | | |
| NTSC | | % | | - | 45 | - | | |

Note 1: 5 points position (Ref: Active area)



Note 2: 13 points position (Ref: Active area)



Note 3: The luminance uniformity of 5 or 13 points is defined by dividing the maximum luminance values by the minimum test point luminance

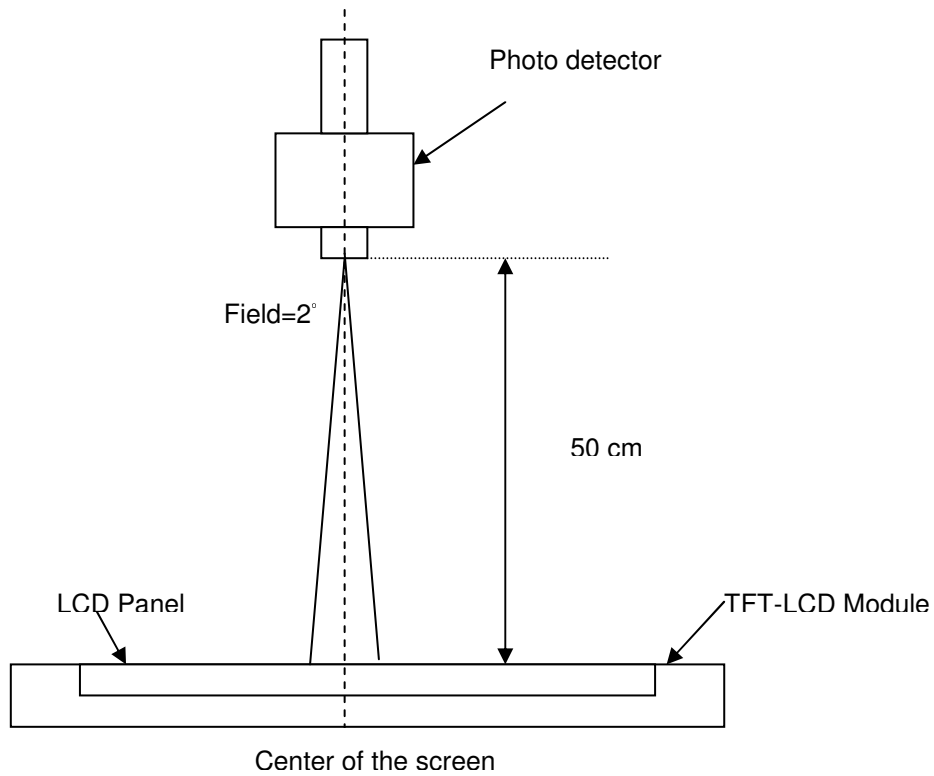
$$\delta_{w5} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

$$\delta_{w13} = \frac{\text{Maximum Brightness of thirteen points}}{\text{Minimum Brightness of thirteen points}}$$

Note 4: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight

for 30 minutes in a stable, windless and dark room, and it should be measured in the center of screen.



Note 5 : Definition of Average Luminance of White (Y_L):

Measure the luminance of gray level 63 at 5 points , $Y_L = [L(1) + L(2) + L(3) + L(4) + L(5)] / 5$

$L(x)$ is corresponding to the luminance of the point X at Figure in Note (1).

Note 6 : Definition of contrast ratio:

Contrast ratio is calculated with the following formula.

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

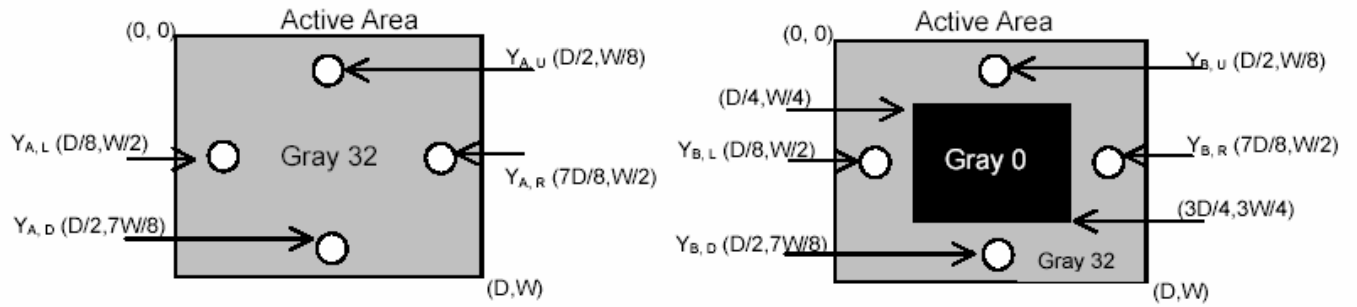
Note 7 : Definition of Cross Talk (CT)

$$CT = |Y_B - Y_A| / Y_A \times 100 (\%)$$

Where

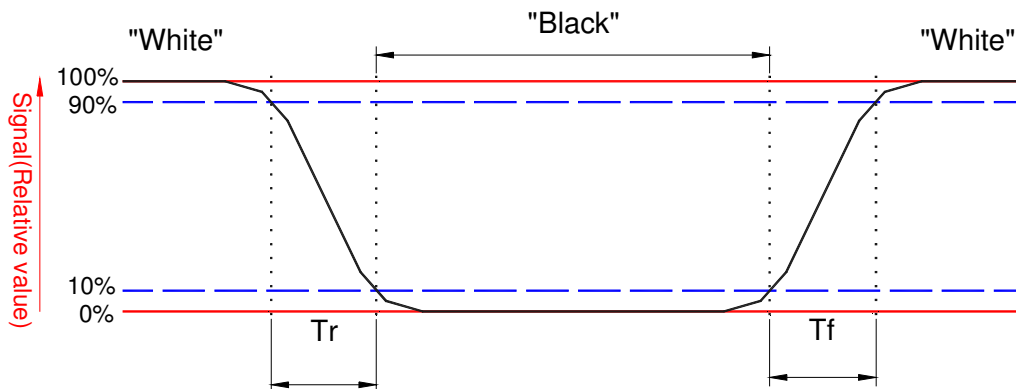
Y_A = Luminance of measured location without gray level 0 pattern (cd/m²)

Y_B = Luminance of measured location with gray level 0 pattern (cd/m²)



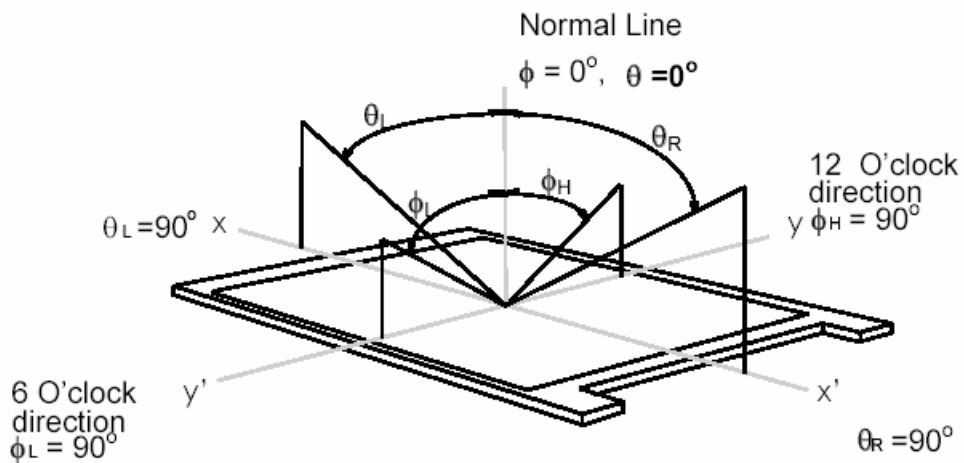
Note 8: Definition of response time:

The output signals of BM-7 or equivalent are measured when the input signals are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval between the 10% and 90% of amplitudes. Refer to figure as below.



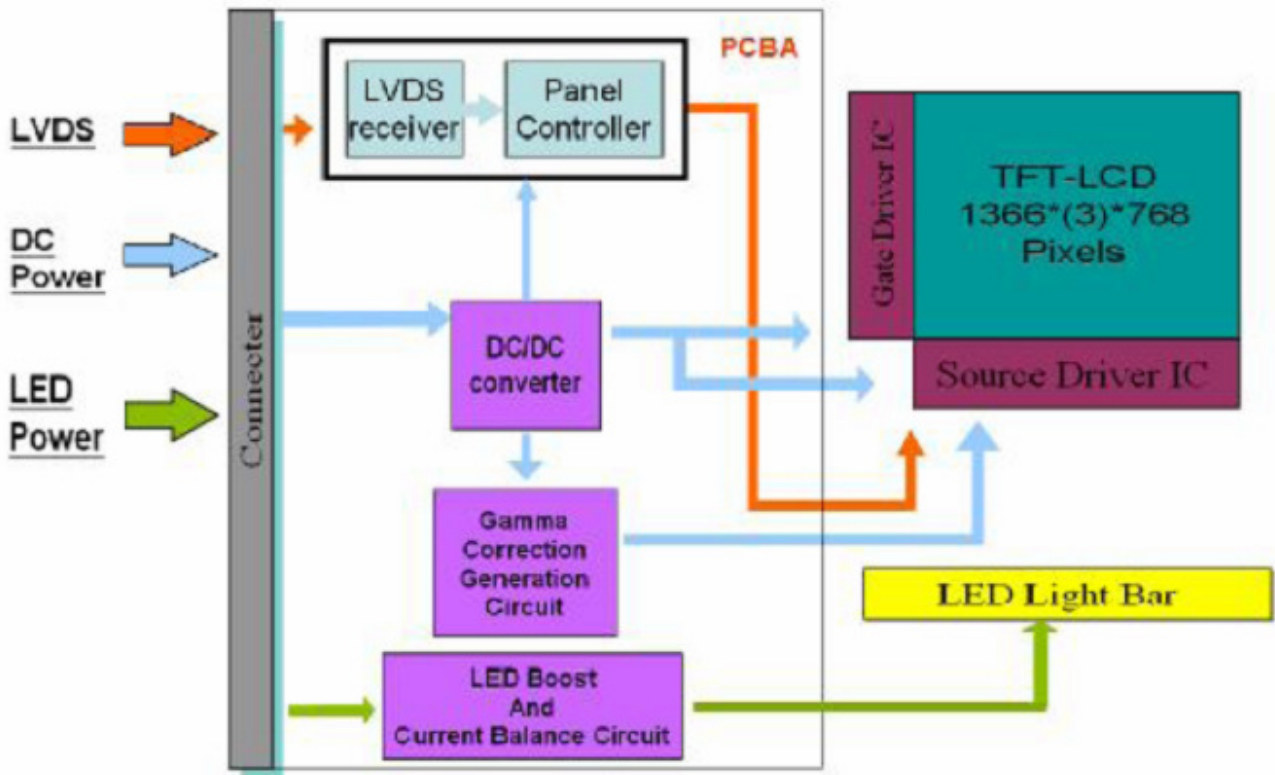
Note 9. Definition of viewing angle

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 follows; 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 about its center to develop the desired measurement viewing angle.



3. Functional Block Diagram

The following diagram shows the functional block of the 10.1 inches wide Color TFT/LCD 40 Pin (One CH/connector Module)



4. Absolute Maximum Ratings

An absolute maximum rating of the module is as following:

4.1 Absolute Ratings of TFT LCD Module

| Item | Symbol | Min | Max | Unit | Conditions |
|-------------------------|-----------------|------|------|--------|------------|
| Logic/LCD Drive Voltage | V _{in} | -0.3 | +4.0 | [Volt] | Note 1,2 |

4.2 Absolute Ratings of Environment

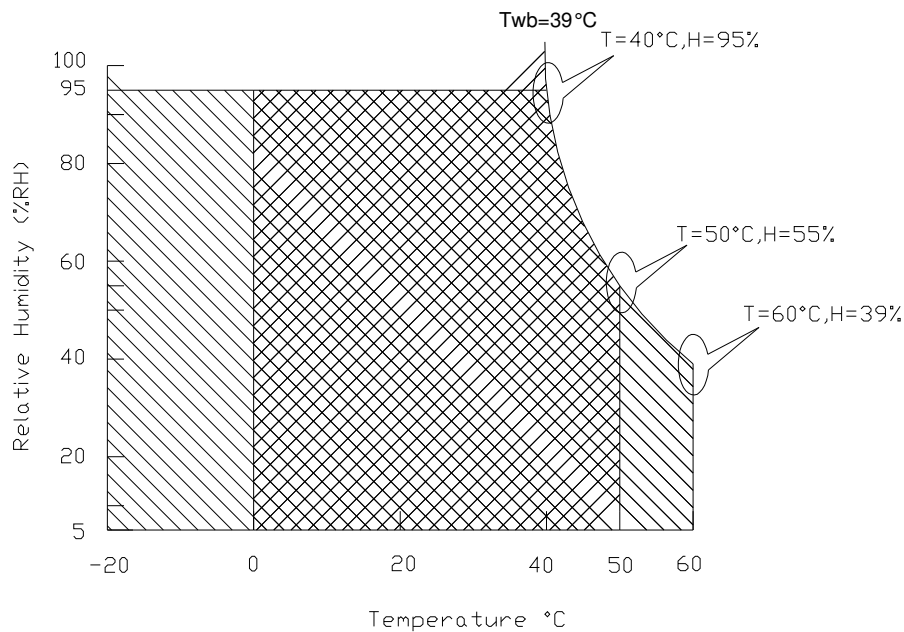
| Item | Symbol | Min | Max | Unit | Conditions |
|-----------------------|--------|-----|-----|-------|------------|
| Operating Temperature | TOP | 0 | +50 | [°C] | Note 4 |
| Operation Humidity | HOP | 10 | 90 | [%RH] | Note 4 |
| Storage Temperature | TST | -20 | +60 | [°C] | Note 4 |
| Storage Humidity | HST | 10 | 90 | [%RH] | Note 4 |

Note 1: At T_a (25°C)

Note 2: Permanent damage to the device may occur if exceed maximum values

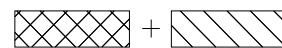
Note 3: LED specification refer to section 5.2

Note 4: For quality performance, please refer to AUO IIS (Incoming Inspection Standard).



Operating Range 

Storage Range



5. Electrical characteristics

5.1 TFT LCD Module

5.1.1 Power Specification

Input power specifications are as follows;

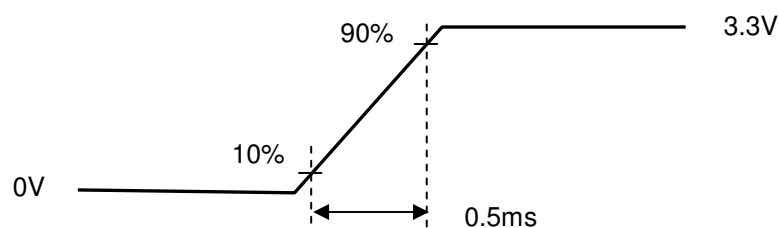
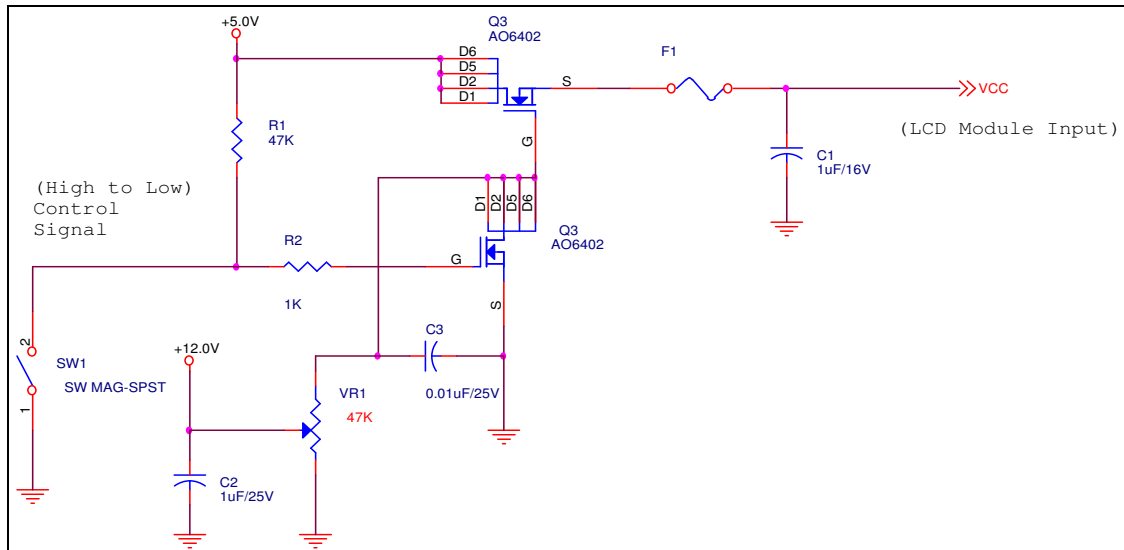
The power specification are measured under 25°C and frame frequency under 60Hz

| Symble | Parameter | Min | Typ | Max | Units | Note |
|--------|------------------------------------------|-----|-----|------|-------------|----------|
| VDD | Logic/LCD Drive Voltage | 3.0 | 3.3 | 3.6 | [Volt] | |
| PDD | VDD Power | - | - | 1.6 | [Watt] | Note 1/2 |
| IDD | IDD Current | - | 350 | 450 | [mA] | Note 1/2 |
| IRush | Inrush Current | - | - | 2000 | [mA] | Note 3 |
| VDDrp | Allowable Logic/LCD Drive Ripple Voltage | - | - | 100 | [mV] p-p | |

Note 1 : Maximum Measurement Condition : Black Pattern

Note 2 : Typical Measurement Condition: Mosaic Pattern

Note 3 : Measure Condition



Vin rising time

5.1.2 Signal Electrical Characteristics

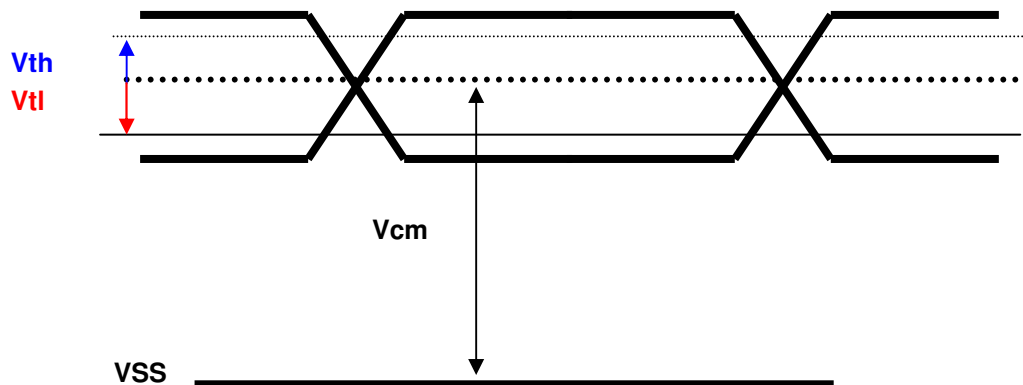
Input signals shall be low or High-impedance state when VDD is off.

It is recommended to refer the specifications of THC63LVDF84A (Thine Electronics Inc.) in detail.

Signal electrical characteristics are as follows;

| Parameter | Condition | Min | Max | Unit |
|-----------|-----------------------------------------------|------|-----|------|
| Vth | Differential Input High Threshold (Vcm=+1.2V) | - | 100 | [mV] |
| Vtl | Differential Input Low Threshold (Vcm=+1.2V) | -100 | - | [mV] |
| Vcm | Differential Input Common Mode Voltage | 0.6 | 1.4 | [V] |

Note: LVDS Signal Waveform



5.2 Backlight Unit

LED Parameter guideline for LED driving selection (Ref. Remark 1)

| Parameter | Symbol | Min | Typ | Max | Units | Condition |
|-----------------------|-----------|--------|------|-----|--------|-------------------------------------------|
| LED Forward Voltage | V_F | 2.95 | 3.15 | 3.4 | [Volt] | (Ta=25°C) |
| LED Forward Current | I_F | | 20 | - | [mA] | (Ta=25°C) |
| LED Power consumption | P_{LED} | | 2.16 | | [Watt] | (Ta=25°C) Note 1 |
| LED Life-Time | N/A | 10,000 | - | - | Hour | (Ta=25°C) $I_F=20\text{ mA}$ Note 2 |
| Output PWM frequency | F_{PWM} | - | 200 | 1K | Hz | |
| Duty ratio | -- | 20 | -- | 100 | % | |

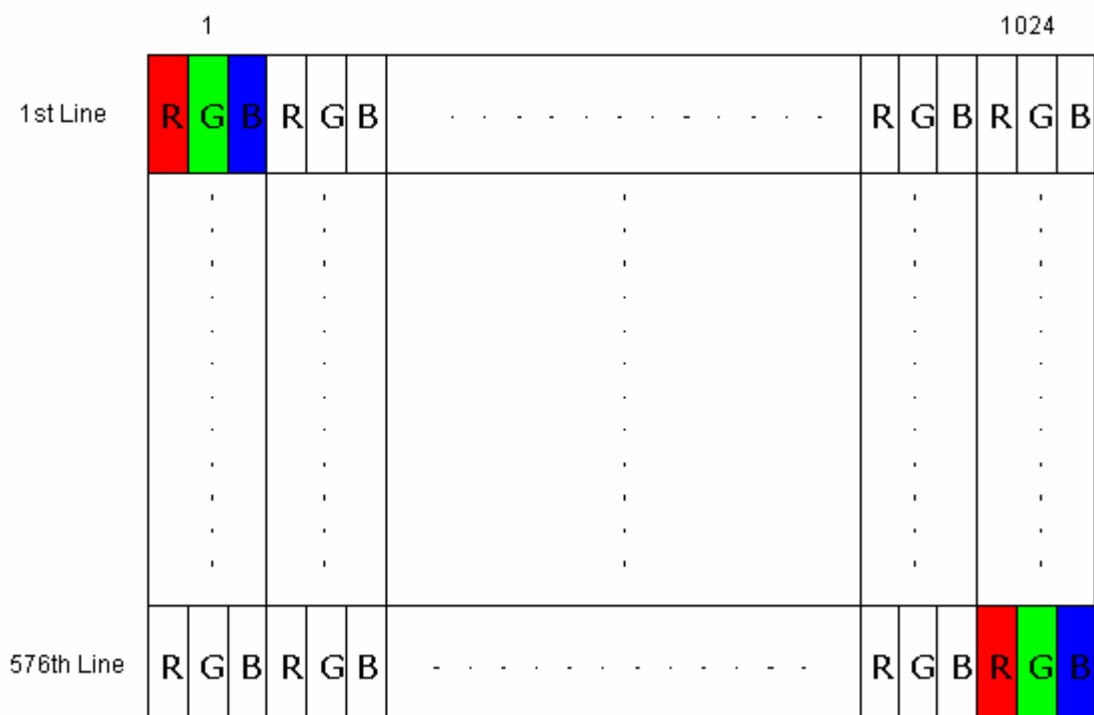
Note 1: Calculator value for reference $I_F \times V_F = P$

Note 2: The LED life-time define as the estimated time to 50% degradation of initial luminous.

6. Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.



6.2 The input data format



| Signal Name | Description | |
|----------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| R5 R4 R3 R2 R1 R0 | Red Data 5 (MSB) Red Data 4 Red Data 3 Red Data 2 Red Data 1 Red Data 0 (LSB) | Red-pixel Data Each red pixel's brightness data consists of these 6 bits pixel data. |
| | Red-pixel Data | |
| G5 G4 G3 G2 G1 G0 | Green Data 5 (MSB) Green Data 4 Green Data 3 Green Data 2 Green Data 1 Green Data 0 (LSB) | Green-pixel Data Each green pixel's brightness data consists of these 6 bits pixel data. |
| | Green-pixel Data | |
| B5 B4 B3 B2 B1 B0 | Blue Data 5 (MSB) Blue Data 4 Blue Data 3 Blue Data 2 Blue Data 1 Blue Data 0 (LSB) | Blue-pixel Data Each blue pixel's brightness data consists of these 6 bits pixel data. |
| | Blue-pixel Data | |
| RxCLKIN | Data Clock | The signal is used to strobe the pixel data and DE signals. All pixel data shall be valid at the falling edge when the DE signal is high. |
| DE | Display Timing | This signal is strobed at the falling edge of RxCLKIN. When the signal is high, the pixel data shall be valid to be displayed. |
| VS | Vertical Sync | The signal is synchronized to RxCLKIN . |
| HS | Horizontal Sync | The signal is synchronized to RxCLKIN . |

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

6.3 Integration Interface and Pin Assignment

LVDS is a differential signal technology for LCD interface and high speed data transfer device.

| PIN# | Signal Name | Description |
|------|-------------|----------------------------------------------|
| 1 | NC | No Connection (Reserve) |
| 2 | AVDD | PowerSupply,3.3V(typical) |
| 3 | AVDD | PowerSupply,3.3V(typical) |
| 4 | DVDD | DDC 3.3Vpower |
| 5 | NC | No Connection (Reserve) |
| 6 | SCL | DDCClock |
| 7 | SDA | DDCData |
| 8 | Rin0- | -LVDSdifferential data input(R0-R5,G0) |
| 9 | Rin0+ | +LVDSdifferential data input(R0-R5,G0) |
| 10 | GND | Ground |
| 11 | Rin1- | -LVDSdifferential data input(G1-G5,B0-B1) |
| 12 | Rin1+ | +LVDSdifferential data input(G1-G5,B0-B1) |
| 13 | GND | Ground |
| 14 | Rin2- | -LVDSdifferential data input(B2-B5,HS,VS,DE) |
| 15 | Rin2+ | +LVDSdifferential data input(B2-B5,HS,VS,DE) |
| 16 | GND | Ground |
| 17 | ClkIN- | -LVDSdifferential clock input |
| 18 | ClkIN+ | +LVDSdifferential clock input |
| 19 | GND | Ground–Shield |
| 20 | NC | No Connection (Reserve) |
| 21 | NC | No Connection (Reserve) |
| 22 | GND | Ground–Shield |
| 23 | NC | No Connection (Reserve) |
| 24 | NC | No Connection (Reserve) |
| 25 | GND | Ground–Shield |
| 26 | NC | No Connection (Reserve) |
| 27 | NC | No Connection (Reserve) |
| 28 | GND | Ground–Shield |
| 29 | NC | No Connection (Reserve) |
| 30 | NC | No Connection (Reserve) |
| 31 | VLED_GND | LED Ground |
| 32 | VLED_GND | LED Ground |
| 33 | VLED_GND | LED Ground |

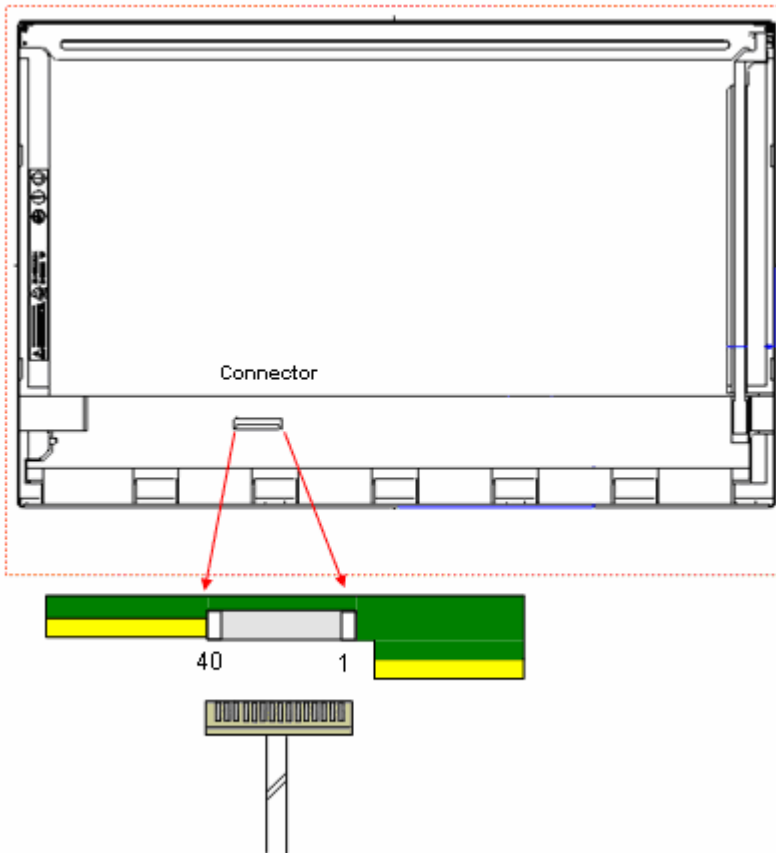


Product Specification

AU OPTRONICS CORPORATION

| | | |
|----|--------|---------------------------|
| 34 | NC | No Connection (Reserve) |
| 35 | PWM | System PWM Signal Input |
| 36 | LED_EN | LED enable pin(+3V Input) |
| 37 | NC | No Connection (Reserve) |
| 38 | VLED | LED Power Supply 5V |
| 39 | VLED | LED Power Supply 5V |
| 40 | VLED | LED Power Supply 5V |

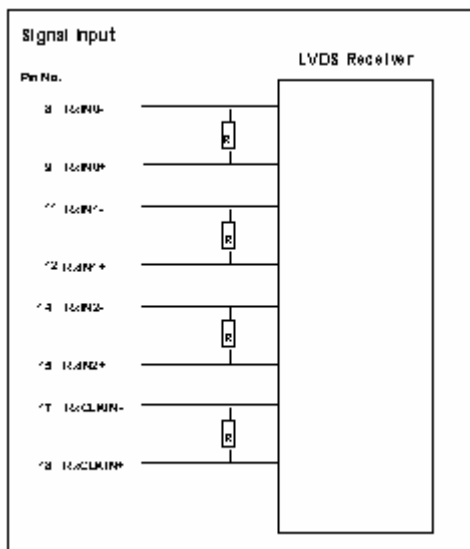
Note1: Start from right side



Note2: Input signals shall be low or High-impedance state when VDD is off.

Internal circuit of LVDS inputs are as following.

The module uses a 100ohm resistor between positive and negative data lines of each receiver input.



6.4 Interface Timing

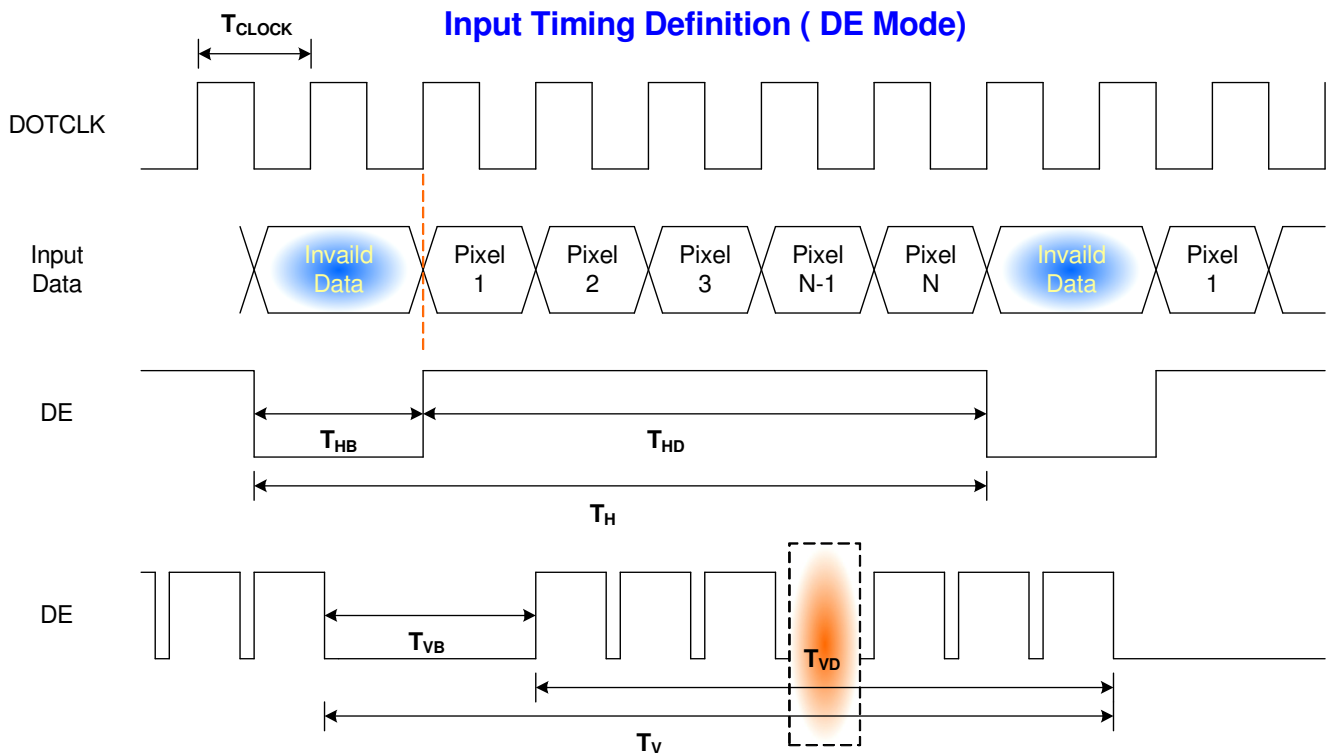
6.4.1 Timing Characteristics

Basically, interface timings should match the 1024 x 576 /60Hz manufacturing guide line timing.

| Parameter | | Symbol | Min. | Typ. | Max. | Unit |
|--------------------|----------|----------------------|------|------|------|--------------------|
| Frame Rate | | - | 50 | 60 | - | Hz |
| Clock frequency | | $1/T_{\text{Clock}}$ | 20 | 49.5 | 72 | MHz |
| Vertical Section | Period | T_V | 584 | 614 | 1023 | T_{Line} |
| | Active | T_{VD} | - | 576 | - | |
| | Blanking | T_{VB} | 8 | 38 | 447 | |
| Horizontal Section | Period | T_H | 1054 | 1344 | 1424 | T_{Clock} |
| | Active | T_{HD} | - | 1024 | - | |
| | Blanking | T_{HB} | 30 | 320 | 400 | |

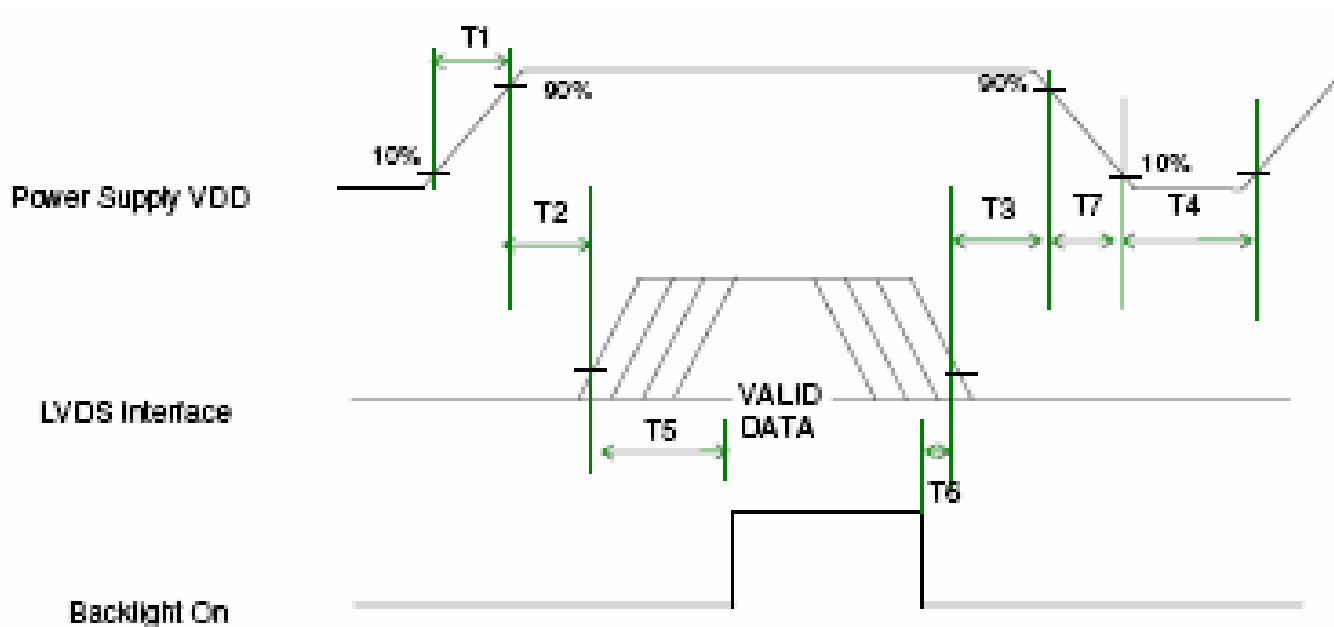
Note : DE mode only

6.4.2 Timing diagram



6.5 Power ON/OFF Sequence

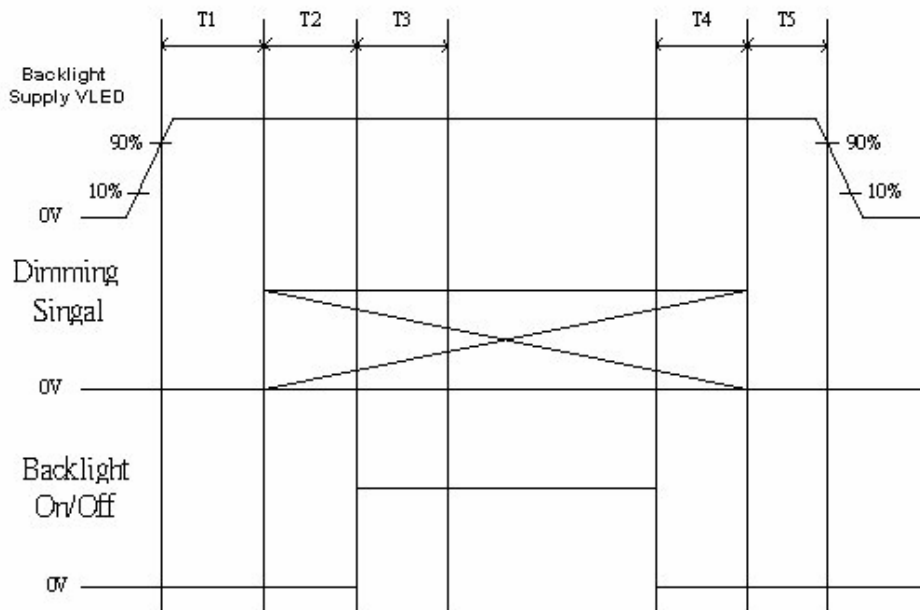
VDD power on/off sequence is as follows. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off



Power Sequence Timing

| Parameter | Value | | | Units |
|-----------|-------|------|------|-------|
| | Min. | Typ. | Max. | |
| T1 | 0.5 | - | 10 | ms |
| T2 | 0 | - | 50 | |
| T3 | 0 | - | 50 | |
| T4 | 400 | - | - | |
| T5 | 200 | - | - | |
| T6 | 200 | - | - | |
| T7 | 0 | - | 10 | |

LED on/off sequence is as follows. Interface signals are also shown in the chart.



| Symbol | Values | | | Unit |
|-----------|--------|-----|-----|------|
| | Min | Typ | Max | |
| T1 | 10 | --- | --- | ms |
| T2 | 10 | --- | --- | |
| T3 | 50 | --- | --- | |
| T4 | 0 | --- | --- | |
| T5 | 10 | --- | --- | |

Note: The duty of LED dimming signal should be more than 20% in T2 and T3.



7. Connector Description

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 Module

| Connector Name / Designation | For Signal Connector |
|------------------------------|----------------------|
| Manufacturer | IPEX |
| Type / Part Number | IPEX 20455-040E-12 |
| Mating Housing/Part Number | IPEX 20453-040T-11 |



8. LED Driving Specification

8.1 Connector Description

It is a integrative interface and comibe into LVDS connector. The type and mating refer to section 7.

8.2 Pin Assignment

Ref. to 6.3



9. Vibration and Shock Test

9.1 Vibration Test

Test Spec:

- Test method: Non-Operation
- Acceleration: 1.5 G
- Frequency: 10 - 500Hz Random
- Sweep: 30 Minutes each Axis (X, Y, Z)

9.2 Shock Test Spec:

Test Spec:

- Test method: Non-Operation
- Acceleration: 220 G , Half sine wave
- Active time: 2 ms
- Pulse: X,Y,Z .one time for each side

10. Reliability

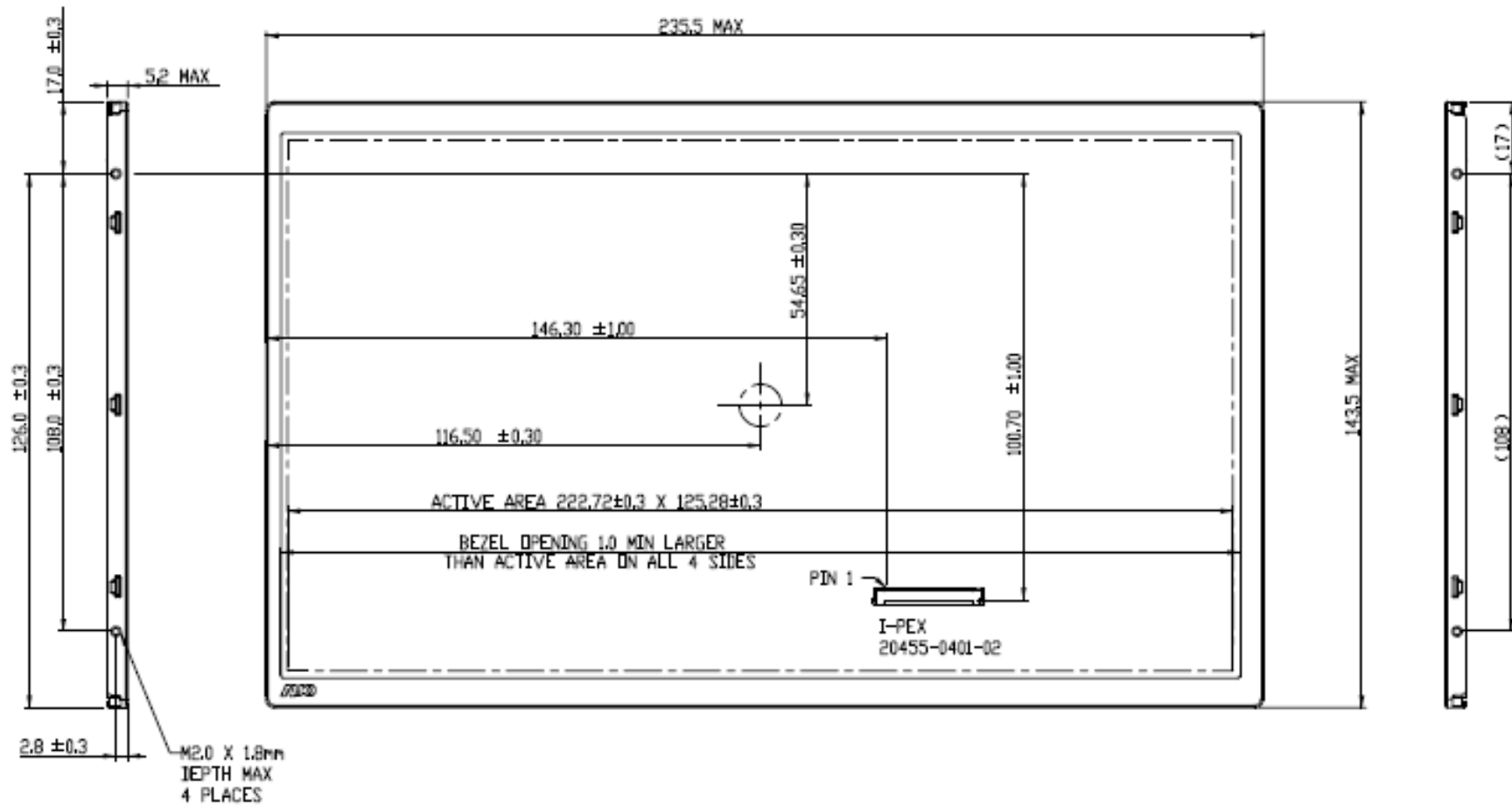
| Items | Required Condition | Note |
|------------------------------|---------------------------------------------------|--------|
| Temperature Humidity Bias | Ta= 40°C , 90%RH, 300h | |
| High Temperature Operation | Ta= 50°C , Dry, 300h | |
| Low Temperature Operation | Ta= 0°C , 300h | |
| High Temperature Storage | Ta= 60°C , 35%RH, 300h | |
| Low Temperature Storage | Ta= -20°C , 50%RH, 250h | |
| Thermal Shock Test | Ta=-20°C to 60°C , Duration at 30 min, 100 cycles | |
| ESD | Contact : ±8 KV Air : ±15 KV | Note 1 |

Note1: According to EN 61000-4-2 , ESD class B: Some performance degradation allowed. No data lost
. Self-recoverable. No hardware failures.

Remark: MTBF (Excluding the LED): 30,000 hours with a confidence level 90%

11. Mechanical Characteristics

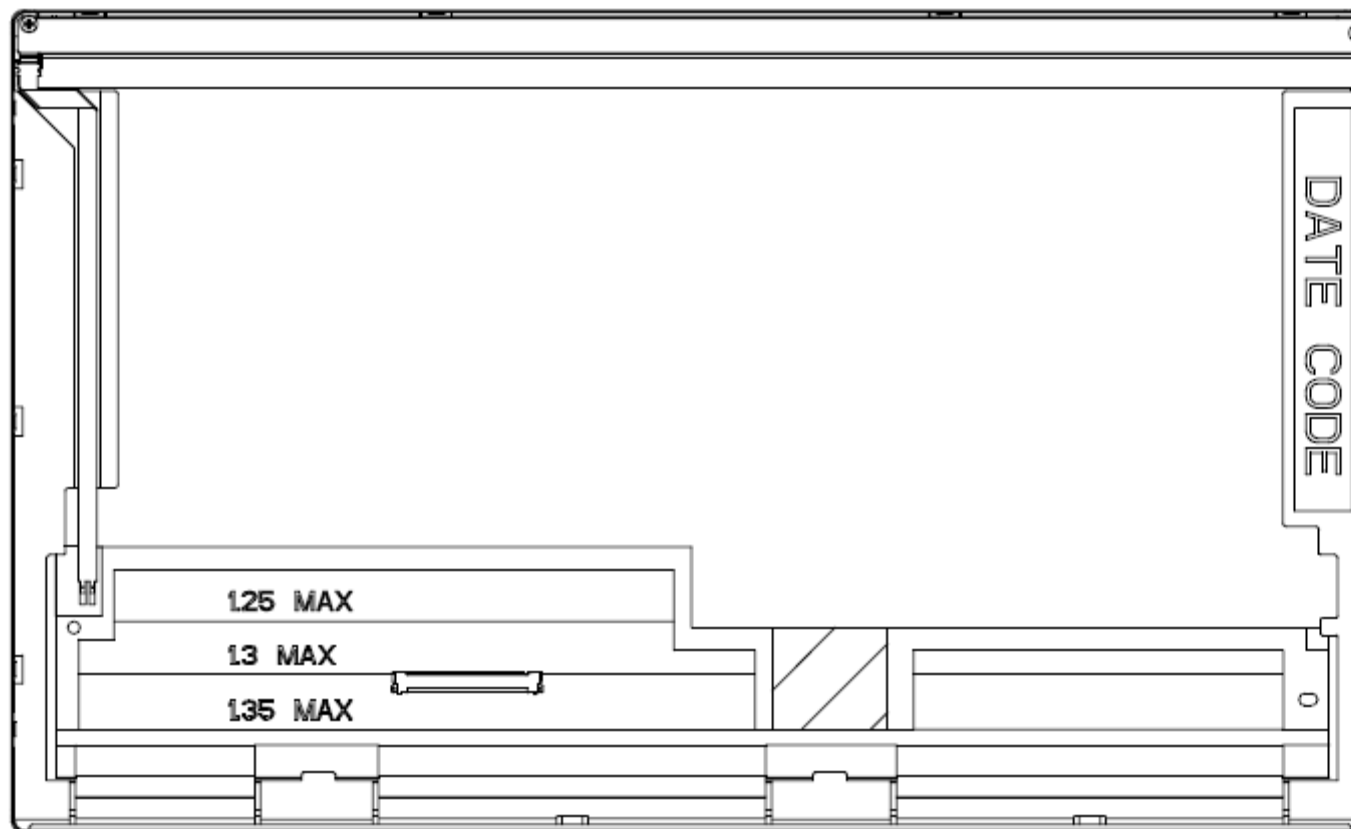
11.1 LCM Outline Dimension





Product Specification

AU OPTRONICS CORPORATION

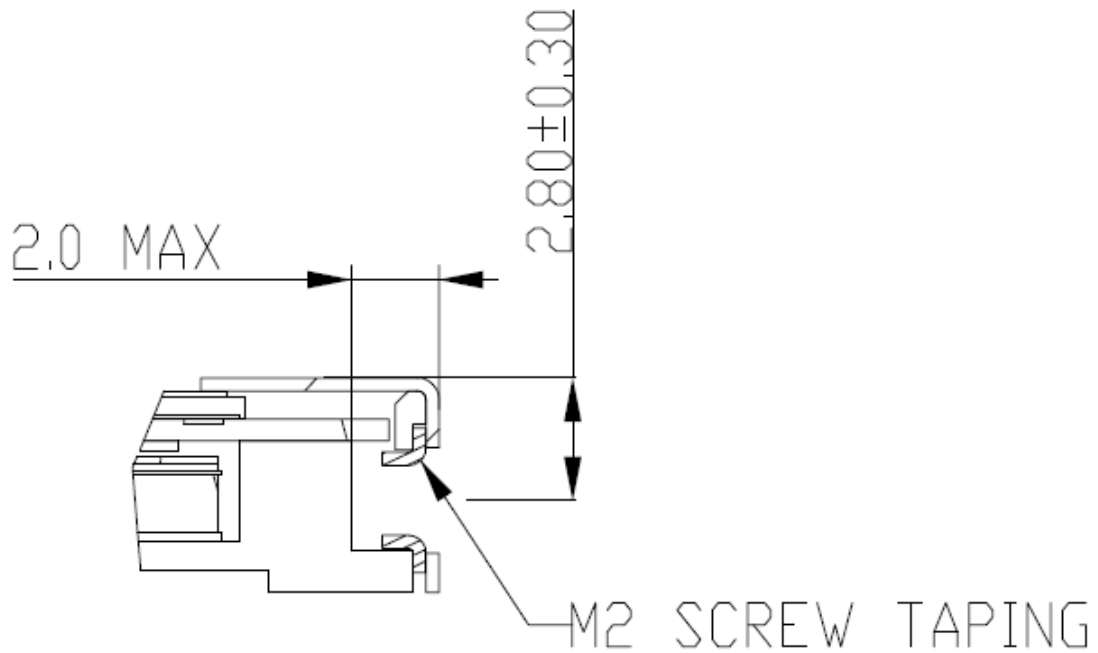


11.2 Screw Hole Depth and Center Position

Screw hole maximum depth, from side surface = 2.0 mm (See drawing)

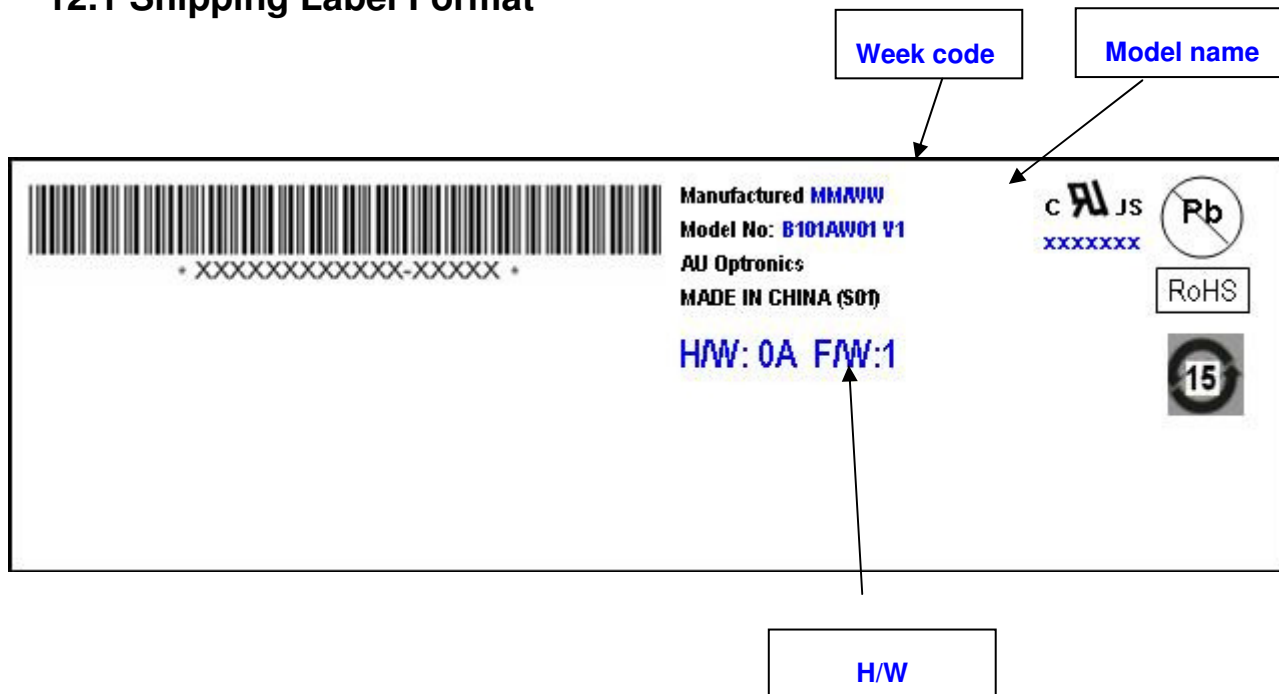
Screw hole center location, from front surface = 2.8 ± 0.3 mm (See drawing)

Screw Torque: Maximum 2.5 kgf-cm



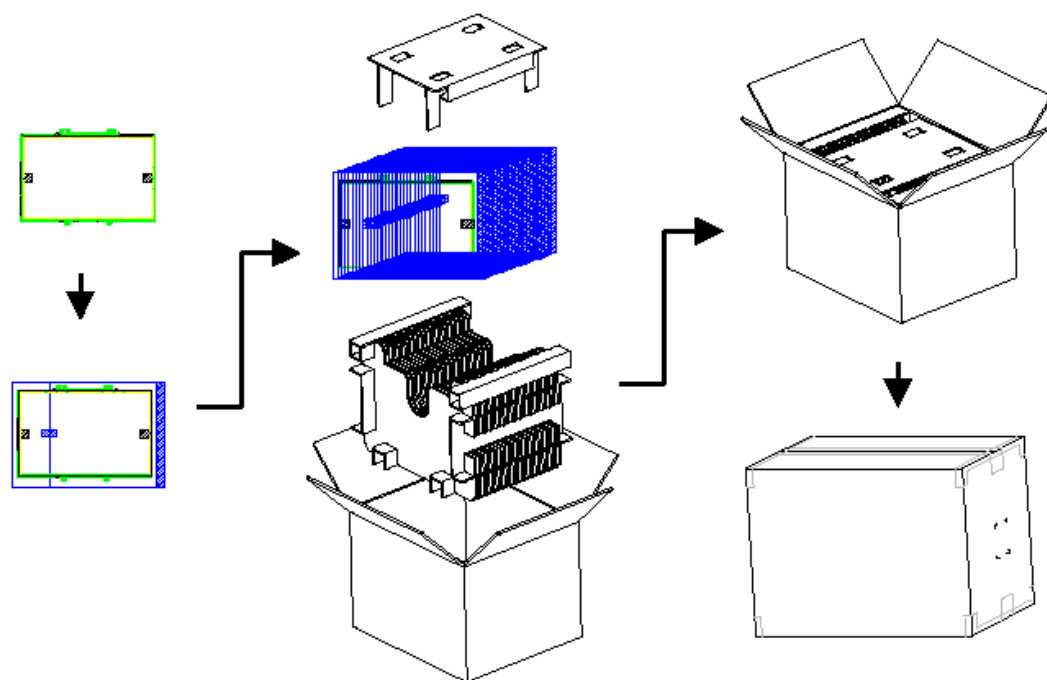
12. Shipping and Package

12.1 Shipping Label Format

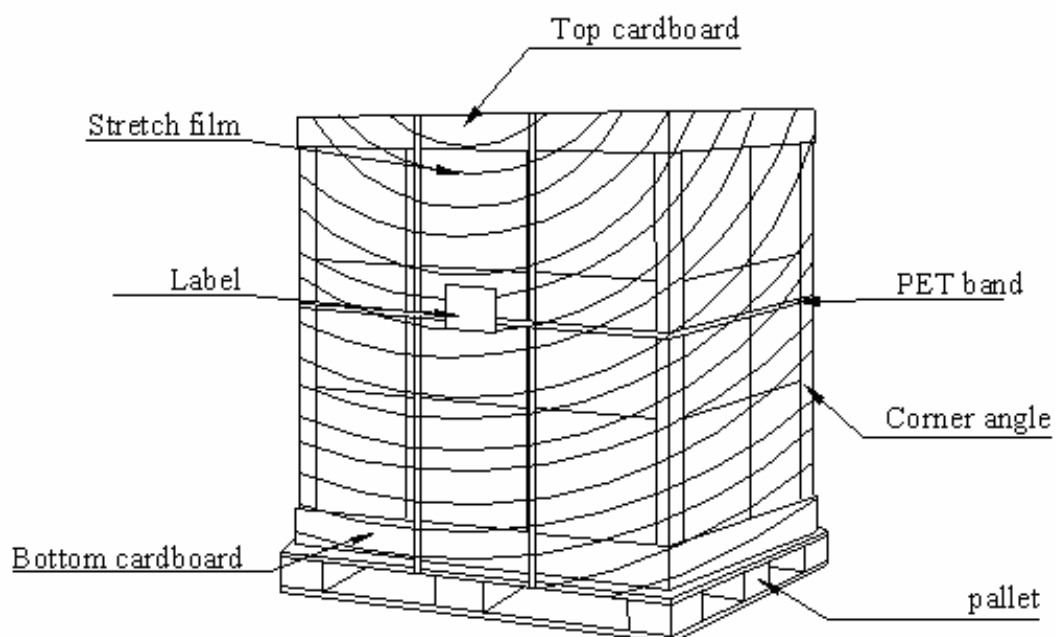


12.2 Carton package

The outside dimension of carton is 477 (L) mm x 375 (W) mm x 339 (H) mm



12.3 Shipping package of palletizing sequence





13. Appendix: EDID description

| Address | FUNCTION | Value | Value | Value | Note |
|---------|----------|-------|-------|-------|------|
| HEX | | | | | |
| 00 | | | | | |
| 01 | | | | | |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 0A | | | | | |
| 0B | | | | | |
| 0C | | | | | |
| 0D | | | | | |
| 0E | | | | | |
| 0F | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 1A | | | | | |
| 1B | | | | | |
| 1C | | | | | |
| 1D | | | | | |
| 1E | | | | | |
| 1F | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |



Product Specification

AU OPTRONICS CORPORATION

| | | | | | |
|----|--|--|--|--|--|
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 2A | | | | | |
| 2B | | | | | |
| 2C | | | | | |
| 2D | | | | | |
| 2E | | | | | |
| 2F | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 3A | | | | | |
| 3B | | | | | |
| 3C | | | | | |
| 3D | | | | | |
| 3E | | | | | |
| 3F | | | | | |
| 40 | | | | | |
| 41 | | | | | |
| 42 | | | | | |
| 43 | | | | | |
| 44 | | | | | |
| 45 | | | | | |
| 46 | | | | | |
| 47 | | | | | |
| 48 | | | | | |
| 49 | | | | | |
| 4A | | | | | |
| 4B | | | | | |
| 4C | | | | | |



Product Specification

AU OPTRONICS CORPORATION

| | | | | | |
|----|--|--|--|--|--|
| 4D | | | | | |
| 4E | | | | | |
| 4F | | | | | |
| 50 | | | | | |
| 51 | | | | | |
| 52 | | | | | |
| 53 | | | | | |
| 54 | | | | | |
| 55 | | | | | |
| 56 | | | | | |
| 57 | | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 5A | | | | | |
| 5B | | | | | |
| 5C | | | | | |
| 5D | | | | | |
| 5E | | | | | |
| 5F | | | | | |
| 60 | | | | | |
| 61 | | | | | |
| 62 | | | | | |
| 63 | | | | | |
| 64 | | | | | |
| 65 | | | | | |
| 66 | | | | | |
| 67 | | | | | |
| 68 | | | | | |
| 69 | | | | | |
| 6A | | | | | |
| 6B | | | | | |
| 6C | | | | | |
| 6D | | | | | |
| 6E | | | | | |
| 6F | | | | | |
| 70 | | | | | |
| 71 | | | | | |
| 72 | | | | | |
| 73 | | | | | |
| 74 | | | | | |



Product Specification

AU OPTRONICS CORPORATION

| | | | | | |
|----|--|--|--|--|--|
| 75 | | | | | |
| 76 | | | | | |
| 77 | | | | | |
| 78 | | | | | |
| 79 | | | | | |
| 7A | | | | | |
| 7B | | | | | |
| 7C | | | | | |
| 7D | | | | | |
| 7E | | | | | |
| 7F | | | | | |