



Product Specification

AU Optronics Corporation

M190EG02 V9

- (**V**) Preliminary Specification
() Final Specification

| | |
|------------|--------------------------|
| Module | 19.0" SXGA Color TFT-LCD |
| Model Name | M190EG02 V9 |

| | |
|--|---|
| <p>Customer _____ Date _____</p> <p>Approved by _____</p> | <p>Checked & Approved by Paul Huang Date <u>Feb. 22, 2011</u></p> <p>Prepared by <i>J.M. Chen</i> Date <u>Feb. 22, 2011</u></p> |
| <p>Note: This Specification is subject to change without notice.</p> | |
| <p>Desktop Display Business Group / AU Optronics corporation</p> | |

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Record of Revision

| Version & Date | Page | Old Description | New Description | Remark |
|----------------|------|----------------------------|-----------------|--------|
| 0.1 2011/02/22 | All | Frist 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 or modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 9) In case if a Module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of the LED lightbar 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) After installation of the TFT Module into an enclosure, do not twist nor bend the TFT Module even momentary. 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.
- 12) 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.
- 13) Pls avoid touching COF position while you are doing mechanical design
- 14) When storing modules as spares for a long time, the following precaution is necessary:
Store them in a dark place. Do not expose the module to sunlight or fluorescent light. Keep the temperature between 5°C and 35°C at normal humidity.



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2. General Description

M190EG02 V9 is a Color Active Matrix Liquid Crystal Display composed of a TFT-LCD panel, a driver circuit, and a backlight system. The screen format is intended to support the SXGA (1280(H) x 1024(V)) screen and 16.7M colors (RGB 6-bits + HiFRC data). All input signals are 2-channel LVDS interface compatible. Inverter card of backlight is not included. M190EG02 V9 is designed for a display unit of personal computer.

2.1 Display Characteristics

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

| Items | Unit | Specifications |
|---|----------------------|--|
| Screen Diagonal | [mm] | 482.6 (19.0") |
| Active Area | [mm] | 376.32 (H) x 301.06 (V) |
| Pixels H x V | | 1280(x3) x 1024 |
| Pixel Pitch | [mm] | 0.294 (per one triad) x 0.294 |
| Pixel Arrangement | | R.G.B. Vertical Stripe |
| Display Mode | | Normally White |
| White Luminance | [cd/m ²] | 250 (center, Typ) @60.0mA |
| Contrast Ratio | | 1000 : 1 (Typ) |
| Optical ResponseTime | [msec] | 5 ms(Typ, on/off) |
| Nominal Input Voltage VDD | [Volt] | +5.0 V |
| Power Consumption | [Watt] | 15.2 W (Typ) (PDD= 4.6 W, PLED=10.6 W) |
| Weight | [Grams] | 1800 (Typ) |
| Physical Size (H x V x D) | [mm] | 396 (H) x 324 (V) x 10.9(D) (Typ) |
| Electrical Interface | | Dual channel LVDS |
| Surface Treatment | | Hard-coating (3H), Non-Glare treatment |
| Support Color | | 16.7M colors (RGB 6-bit + Hi_FRC) |
| Temperature Range Operating Storage (Non-Operating) | [°C] [°C] | 0 to +50 -20 to +60 |
| RoHS Compliance | | RoHS Compliance |
| TCO Compliance | | TCO 5.1 Compliance |



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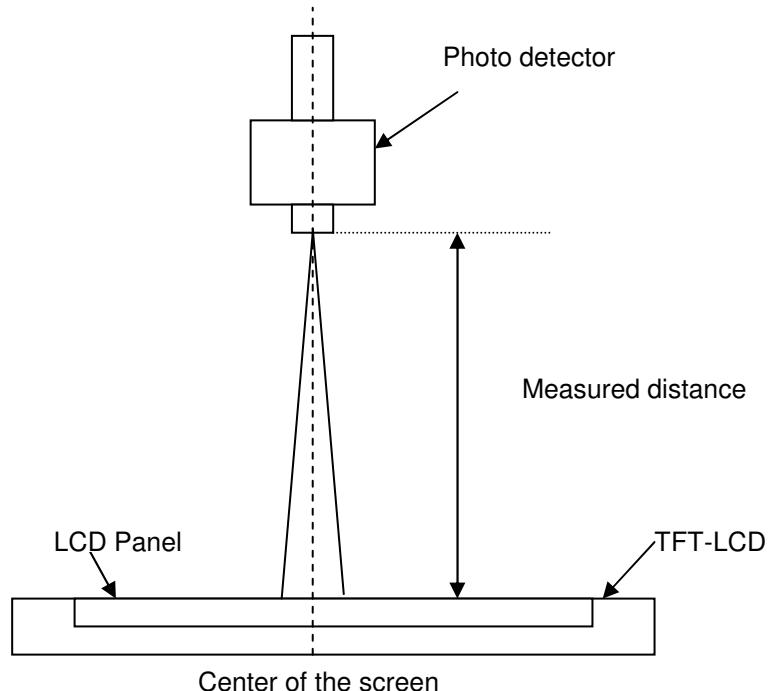
2.2 Optical Characteristics

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

| Item | Unit | Conditions | Min. | Typ. | Max. | Note |
|--|----------------------|--------------------------------------|----------|----------|-------|------|
| Viewing Angle | [degree] | Horizontal (Right) CR = 10 (Left) | 75 75 | 85 85 | - | 2 |
| | | Vertical (Up) CR = 10 (Down) | 70 70 | 80 80 | - | |
| Contrast Ratio | | Normal Direction | 600 | 1000 | - | 3 |
| Optical Response Time | [msec] | Raising Time (TrR) | - | 3.6 | 5.7 | 4 |
| | | Falling Time (TrF) | - | 1.4 | 2.3 | |
| | | Rising + Falling | - | 5 | 8 | |
| Color / Chromaticity Coordinates (CIE) | | Red x | 0.609 | 0.639 | 0.669 | 5 |
| | | Red y | 0.316 | 0.346 | 0.376 | |
| | | Green x | 0.294 | 0.324 | 0.354 | |
| | | Green y | 0.597 | 0.627 | 0.657 | |
| | | Blue x | 0.124 | 0.154 | 0.184 | |
| | | Blue y | 0.024 | 0.054 | 0.084 | |
| | | White x | 0.283 | 0.313 | 0.343 | |
| | | White y | 0.299 | 0.329 | 0.359 | |
| Central Luminance | [cd/m ²] | | 200 | 250 | - | 6 |
| Luminance Uniformity | [%] | 9 Points | 75 | 80 | - | 7 |
| Cross Talk (At 60Hz) | [%] | | - | - | 1.5 | 8 |
| Flicker | [dB] | | - | - | -20 | 9 |

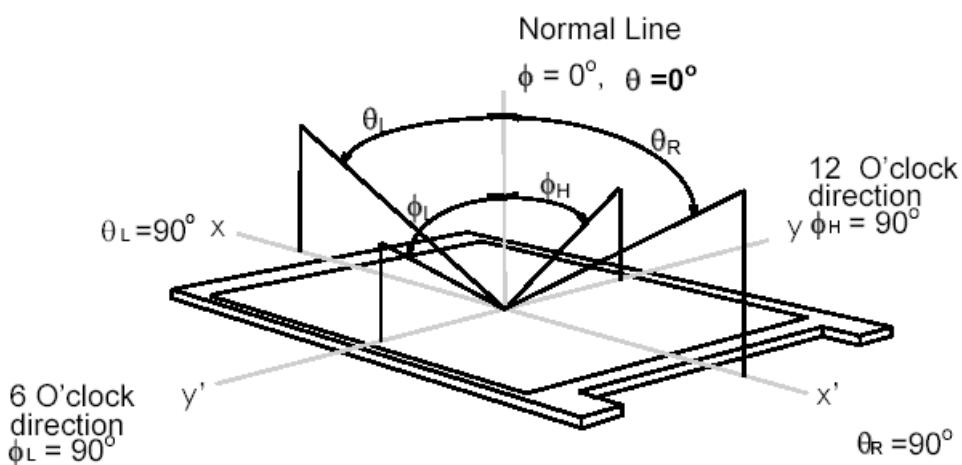
Note 1: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring (at surface 35°C). In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.



Note 2: Definition of viewing angle measured by ELDIM (EZContrast 88)

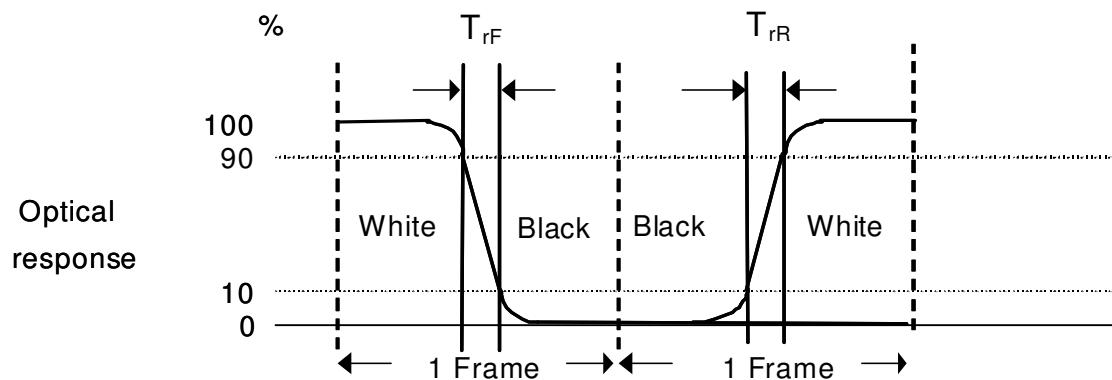
Viewing angle is the measurement of contrast ratio ≥ 10 , at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (ϕ) vertical, high (up) and low (down). The measurement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



Note 3: Contrast ratio is measured by TOPCON SR-3

Note 4: Definition of Response time measured by Westar TRD-100A

The output signals of photo detector are measured when the input signals are changed from “Full Black” to “Full White” (rising time, T_{rF}), and from “Full White” to “Full Black” (falling time, T_{rR}), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.

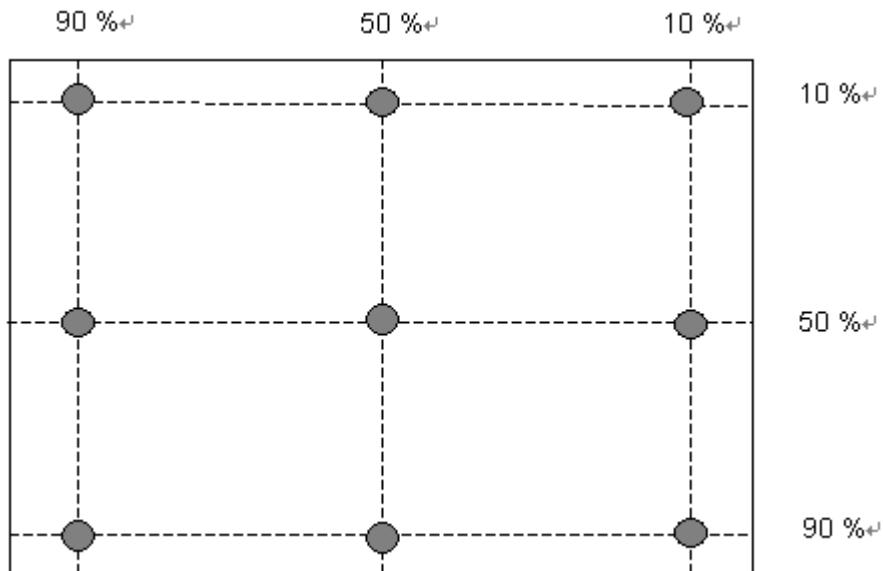


$$T_{rR} + T_{rF} = 5 \text{ msec (typ.)}$$

Note 5: Color chromaticity and coordinates (CIE) is measured by TOPCON SR-3

Note 6: Central luminance is measured by TOPCON SR-3

Note 7: Luminance uniformity of these 9 points is defined as below and measured by TOPCON SR-3



$$\text{Uniformity} = \frac{\text{Minimum Luminance in 9 points (1 - 9)}}{\text{Maximum Luminance in 9 Points (1 - 9)}}$$

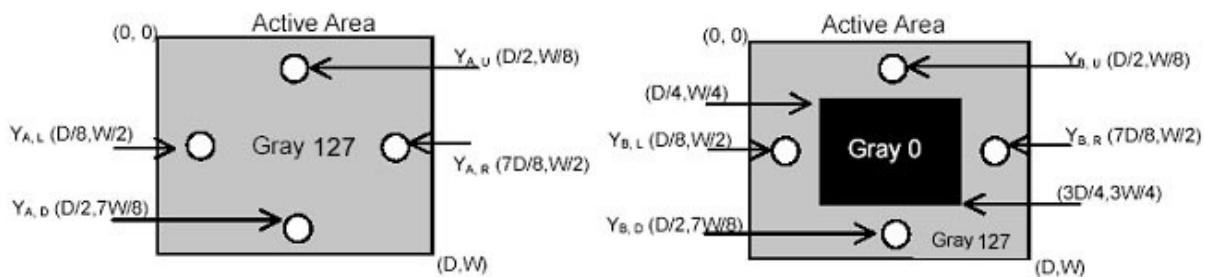
Note 8: Crosstalk is defined as below and measured by TOPCON SR-3

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

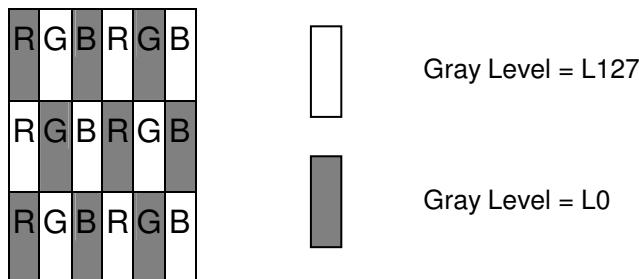
Where

Y_A = Luminance of measured location without gray level 0 pattern (cd/m^2)

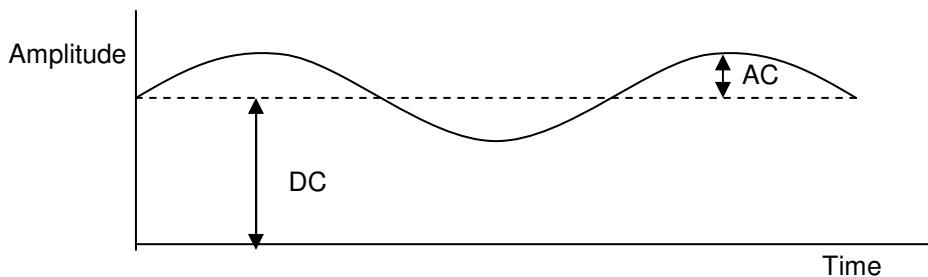
Y_B = Luminance of measured location with gray level 0 pattern (cd/m^2)



Note 9: Test Pattern: Subchecker Pattern measured by TOPCON SR-3



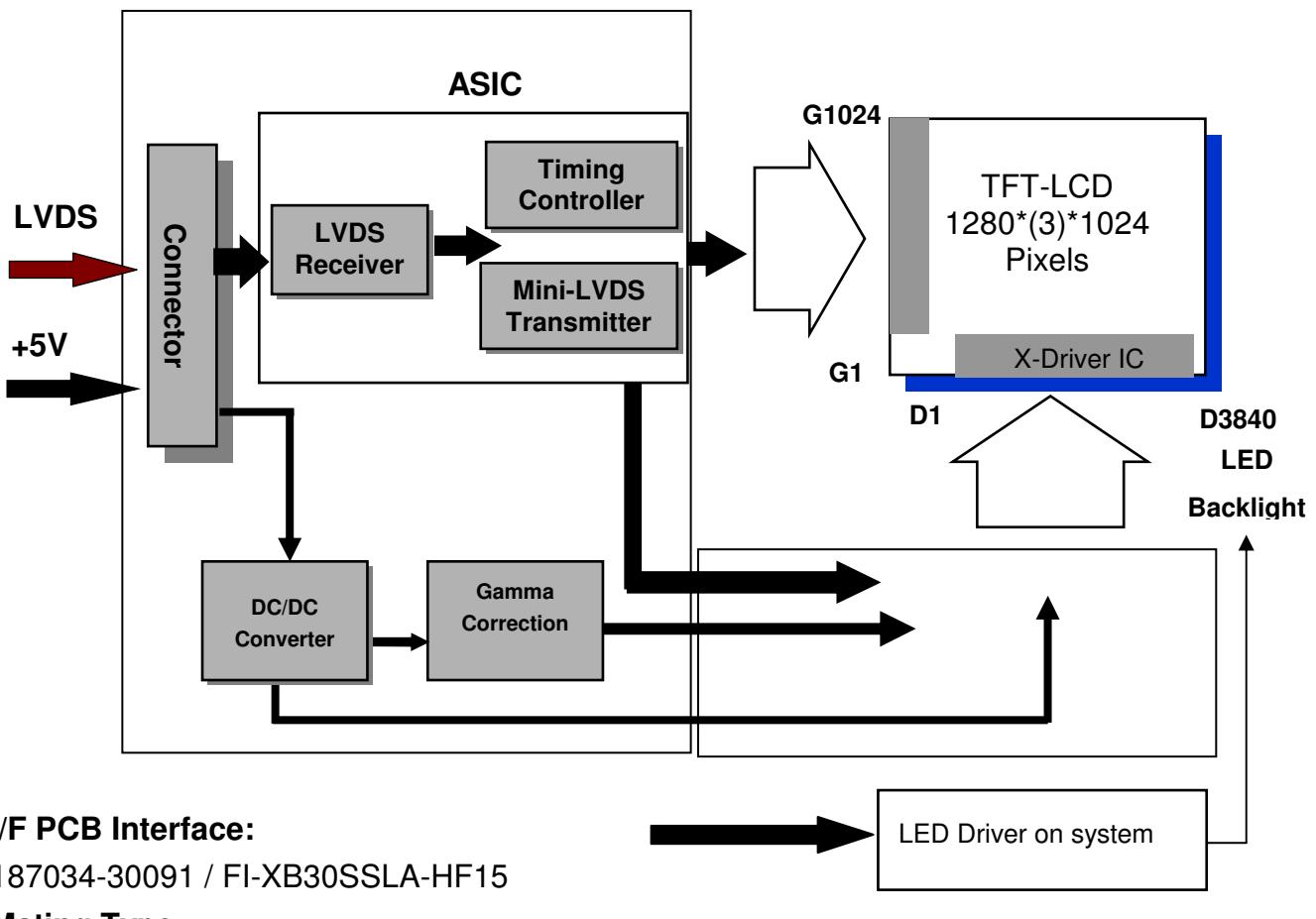
Method: Record dBV & DC value with TRD-100



$$\text{Flicker (dB)} = 20 \log \frac{\text{AC Level(at 30 Hz)}}{\text{DC Level}}$$

3. Functional Block Diagram

The following diagram shows the functional block of the 24.0 inch Color TFT-LCD Module:



4. Absolute Maximum Ratings

Absolute maximum ratings of the module are as following:

4.1 TFT LCD Module

| Item | Symbol | Min | Max | Unit | Conditions |
|-------------------------|--------|------|------|--------|-----------------|
| Logic/LCD Drive Voltage | VDD | -0.3 | +6.0 | [Volt] | Note 1,2 |

4.2 Backlight Unit

| Item | Symbol | Min | Max | Unit | Conditions |
|-------------|--------|-----|-----|------|-----------------|
| LED Current | ILED | - | 90 | [mA] | Note 1,2 |

4.3 Absolute Ratings of Environment

| Item | Symbol | Min. | Max. | Unit | Conditions |
|---------------------------------------|--------|------|------|-------|-----------------------|
| Operating Temperature | TOP | 0 | +50 | [°C] | Note 3 |
| Glass surface temperature (operation) | TGS | 0 | +65 | [°C] | Note 3, Note 4 |
| Operation Humidity | HOP | 5 | 90 | [%RH] | Note 3 |
| Storage Temperature | TST | -20 | +60 | [°C] | |
| Storage Humidity | HST | 5 | 90 | [%RH] | |

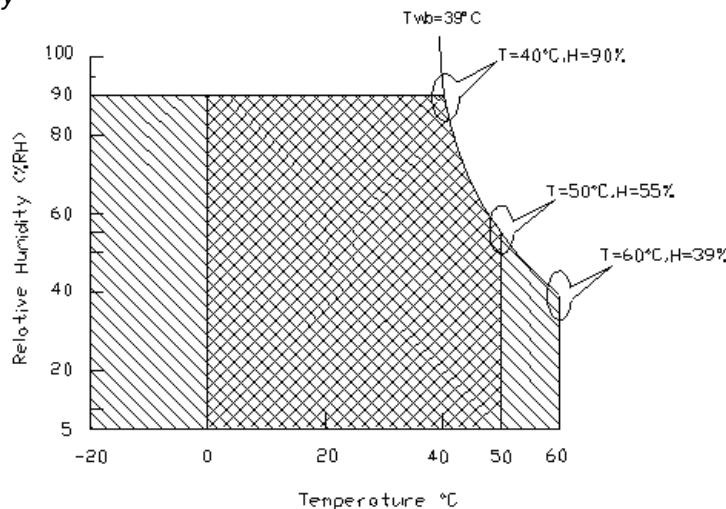
Note 1: With in Ta (25°C)

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

Note 3: Temperature and relative humidity range are shown as the below figure.

1. 90% RH Max (Ta $\leq 39^{\circ}\text{C}$)
2. Max wet-bulb temperature at 39°C or less. (Ta $\leq 39^{\circ}\text{C}$)
3. No condensation

Note 4: Function Judged only



Operating Range



Storage Range



5. Electrical characteristics

5.1 TFT LCD Module

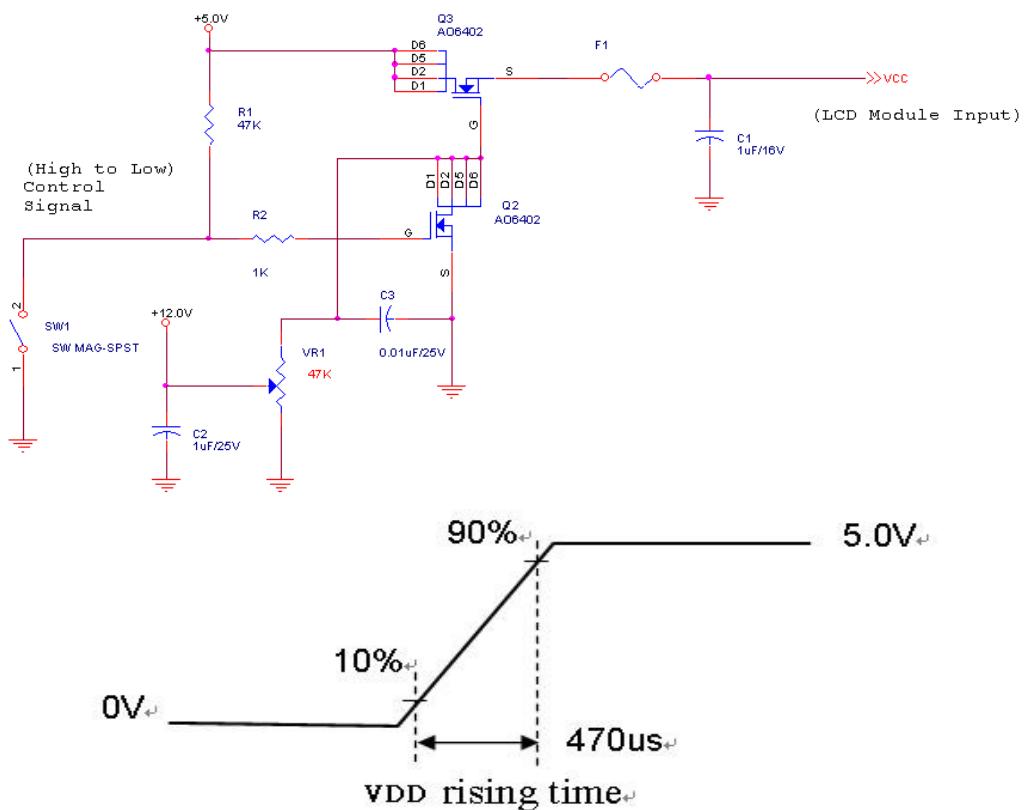
5.1.1 Power Specification

Input power specifications are as following:

| Symbol | Parameter | Min | Typ | Max | Unit | Conditions |
|--------|--|-----|------|-----|----------|---------------------------------------|
| VDD | Logic/LCD Drive Voltage | 4.5 | 5.0 | 5.5 | [Volt] | +/-10% |
| IDD | Input Current | - | 0.94 | 1.1 | [A] | VDD= 5.0V, All Black Pattern At 60Hz, |
| | | | | | | VDD= 5.0V, All Black Pattern At 75Hz, |
| PDD | VDD Power | - | 4.7 | 5.5 | [Watt] | VDD= 5.0V, All Black Pattern At 60Hz |
| | | | | | | VDD= 5.0V, All Black Pattern At 75Hz |
| IRush | Inrush Current | - | - | 3.0 | [A] | Note 1 |
| VDDRp | Allowable Logic/LCD Drive Ripple Voltage | - | - | 100 | [mV] p-p | VDD= 5.0V, All Black Pattern At 75Hz |

Note 1: Measurement conditions:

The duration of rising time of power input is 470us.



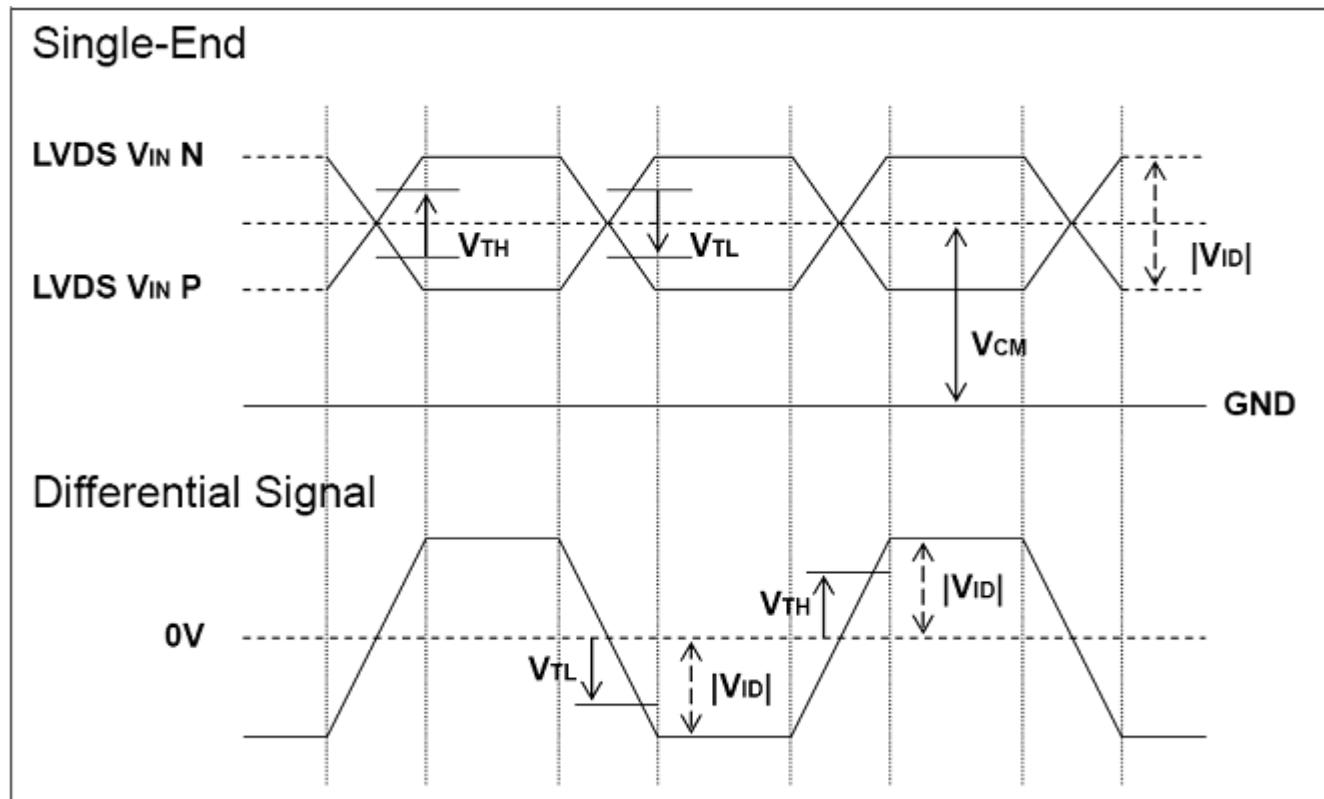
5.1.2 Signal Electrical Characteristics

Input signals shall be low or Hi-Z state when VDD is off. Please refer to specifications of SN75LVDS82DGG (Texas Instruments) in detail.

1. DC Characteristics of each signal are as following:

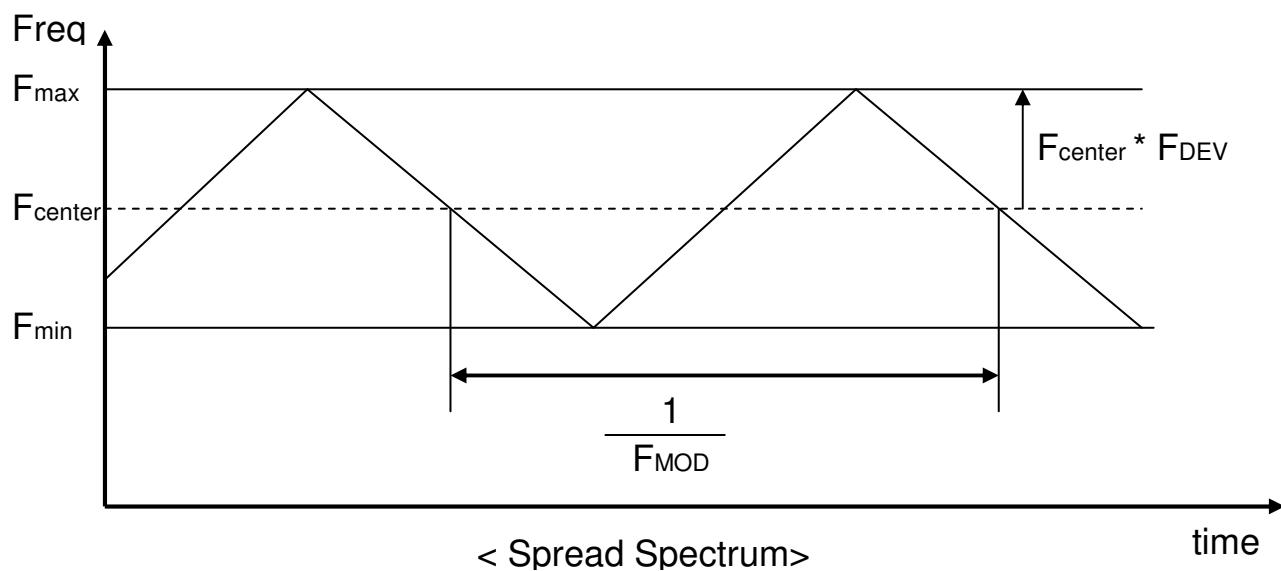
| Symbol | Parameter | Min | Typ | Max | Units | Condition |
|------------|--|------|------|------|-------|--|
| V_{TH} | Differential Input High Threshold | - | - | +100 | [mV] | $V_{CM} = 1.2V$ Note 1 |
| V_{TL} | Differential Input Low Threshold | -100 | - | - | [mV] | $V_{CM} = 1.2V$ Note 1 |
| $ V_{ID} $ | Input Differential Voltage | 100 | 400 | 600 | [mV] | Note 1 |
| V_{CM} | Differential Input Common Mode Voltage | +1.0 | +1.2 | +1.5 | [V] | $V_{TH}-V_{TL} = 200mV$ (max) Note 1 |

Note 1: LVDS Signal Waveform



2. AC characteristic

| Description | Symbol | Min | Max | Unit | Note |
|--|-----------|-----|---------|------|------|
| Maximum deviation of input clock frequency during SSC | F_{DEV} | - | ± 3 | % | |
| Maximum modulation frequency of input clock during SSC | F_{MOD} | - | 200 | KHz | |





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5.2 Backlight Unit

Parameter guideline for LED driving is under stable conditions at 25°C (Room Temperature):

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Note |
|-------------------|--|--------|--------|------|------------------|---|
| IR _{LED} | LED Operation Current | - | 60 | | [mA] Note 1 | Operating with fixed driving current |
| V _{LB} | Light Bar Operation Voltage (for reference) | - | 44.2 | 46.8 | [Volt] Note 2 | |
| P _{BLU} | BLU Power consumption (for reference) | - | 10.6 | | [Watt] | |
| LT _{LED} | LED life Time (Typical) | 25,000 | 30,000 | | [Hour] Note 3 | |

Note 1 :The specified current is input LED chip 100% duty current.

Note 2 : The value showed in the table is one light bar's operation voltage.

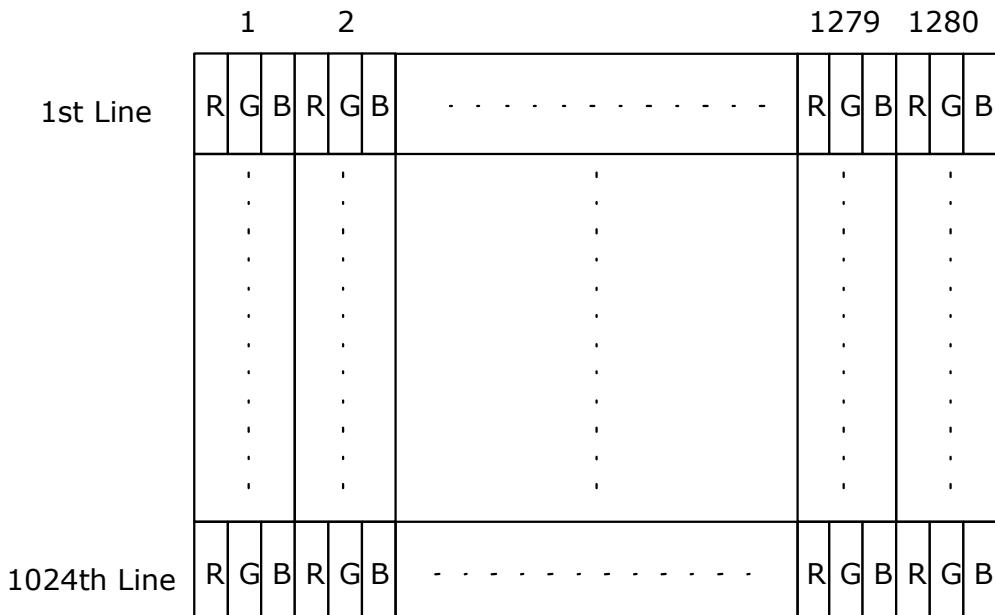
Note 3 : Definition of life time : brightness becomes 50% of its original value. The minimum life time of LED unit is on the condition of IR_{LED} = 60mA and 25±2°C(Room temperature).

Note 4: Each LED light bar consists of 52 pcs LED package (4 strings x 13 pcs / string).

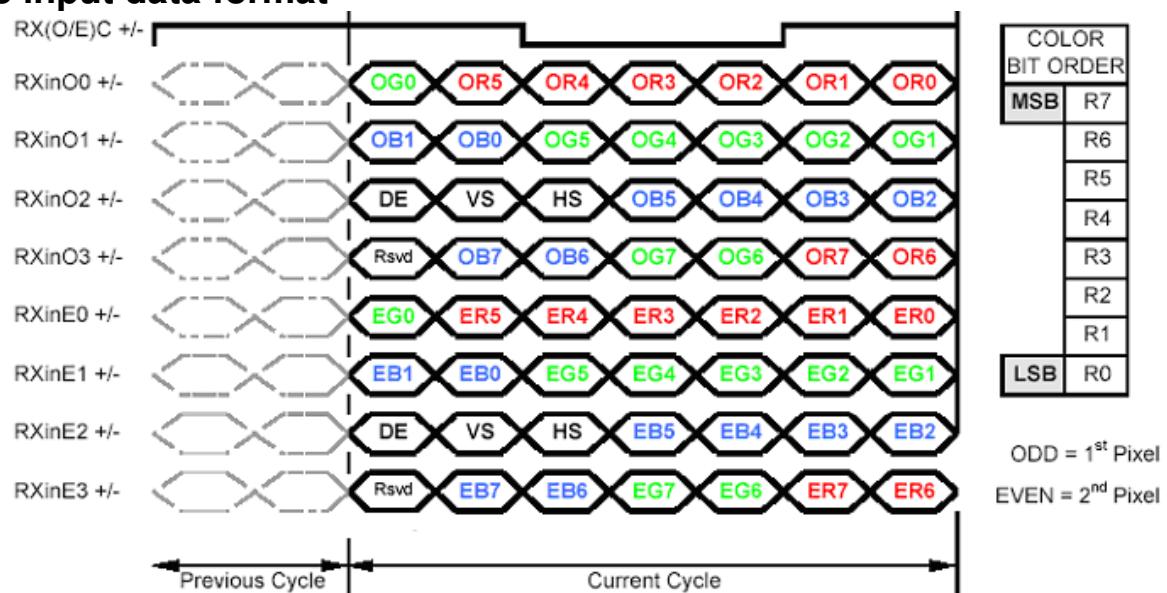
6. Signal Characteristic

6.1 Pixel Format Image

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



6.2 The input data format



Note1: Normally, DE, VS, HS on EVEN channel are not used.

Note2: Please follow PSWG.

Note3: 8-bit in



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6.3 Signal Description

The module using one LVDS receiver SN75LVDS82(Texas Instruments). LVDS is a differential signal technology for LCD interface and high speed data transfer device. LVDS transmitters shall be SN75LVDS83(negative edge sampling). The first LVDS port(RxOxxx) transmits odd pixels while the second LVDS port(RxExxx) transmits even pixels.

| PIN # | SIGNAL NAME | DESCRIPTION |
|-------|-------------|--|
| 1 | RxOIN0- | Negative LVDS differential data input (Odd data) |
| 2 | RxOIN0+ | Positive LVDS differential data input (Odd data) |
| 3 | RxOIN1- | Negative LVDS differential data input (Odd data) |
| 4 | RxOIN1+ | Positive LVDS differential data input (Odd data) |
| 5 | RxOIN2- | Negative LVDS differential data input (Odd data, DSPTMG) |
| 6 | RxOIN2+ | Positive LVDS differential data input (Odd data, DSPTMG) |
| 7 | GND | Power Ground |
| 8 | RxOCLKIN- | Negative LVDS differential clock input (Odd clock) |
| 9 | RxOCLKIN+ | Positive LVDS differential clock input (Odd clock) |
| 10 | RxOIN3- | Negative LVDS differential data input (Odd data) |
| 11 | RxOIN3+ | Positive LVDS differential data input (Odd data) |
| 12 | RxEIN0- | Negative LVDS differential data input (Even data) |
| 13 | RxEIN0+ | Positive LVDS differential data input (Even data) |
| 14 | GND | Power Ground |
| 15 | RxEIN1- | Positive LVDS differential data input (Even data) |
| 16 | RxEIN1+ | Negative LVDS differential data input (Even data) |
| 17 | GND | Power Ground |
| 18 | RxEIN2- | Negative LVDS differential data input (Even data) |
| 19 | RxEIN2+ | Positive LVDS differential data input (Even data) |
| 20 | RxECLKIN- | Negative LVDS differential clock input (Even clock) |
| 21 | RxECLKIN+ | Positive LVDS differential clock input (Even clock) |
| 22 | RxEIN3- | Negative LVDS differential data input (Even data) |
| 23 | RxEIN3+ | Positive LVDS differential data input (Even data) |
| 24 | GND | Power Ground |
| 25 | GND | Power Ground |
| 26 | NC | No connection (for AUO test) |
| 27 | NC | No connection (for AUO test) |
| 28 | POWER | Power +5V |
| 29 | POWER | Power +5V |
| 30 | POWER | Power +5V |

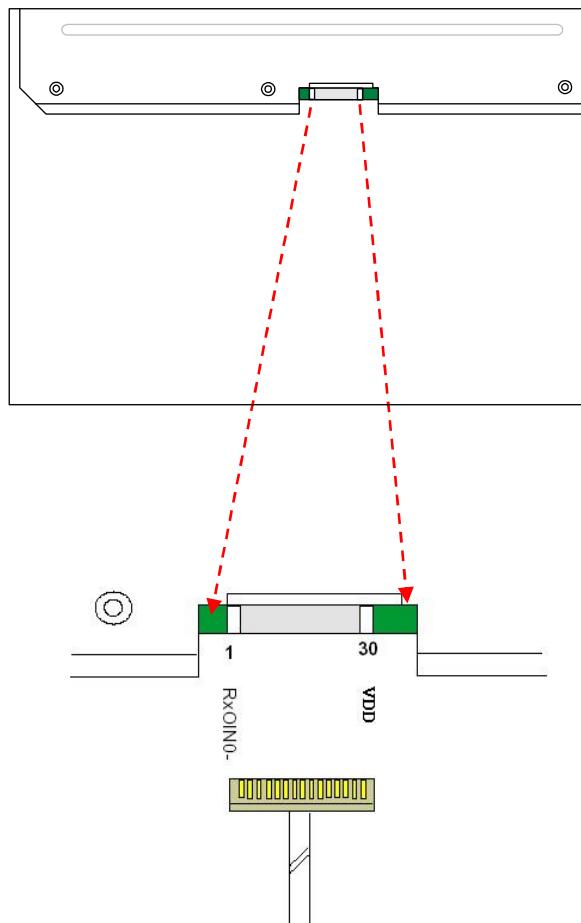


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Note1: Start from left side



Note2: Input signals of odd and even clock shall be the same timing.



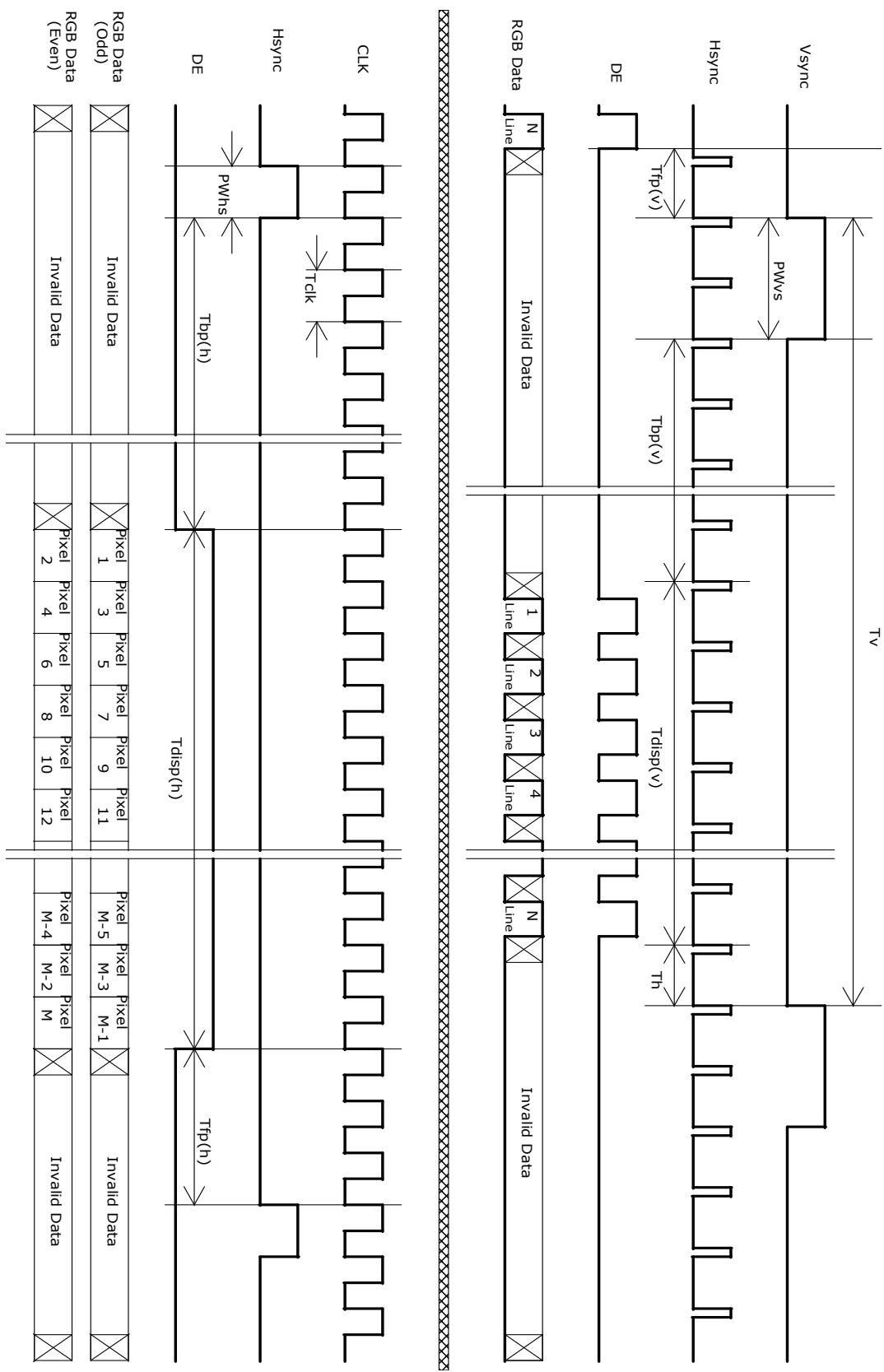
6.4 Interface Timing

6.4.1 Timing Characteristics

| Signal | Item | Symbol | Min | Typ | Max | Unit |
|--------------------|-----------|--------------------|------|-------|-------|------|
| Vertical Section | Period | Tv | 1032 | 1066 | 1150 | Th |
| | Active | Tdisp(v) | 1024 | 1024 | 1024 | Th |
| | Blanking | Tbp(v)+Tfp(v)+PWvs | 8 | 42 | 126 | Th |
| Horizontal Section | Period | Th | 780 | 844 | 2047 | Tclk |
| | Active | Tdisp(h) | 640 | 640 | 640 | Tclk |
| | Blanking | Tbp(h)+Tfp(h)+PWhs | 140 | 204 | - | Tclk |
| Clock | Period | Tclk | 22.2 | 18.52 | 14.81 | ns |
| | Frequency | Freq. | 45 | 54 | 67.5 | MHz |
| Frame Rate | Frequency | 1/Tv | 50 | 60 | 75 | Hz |

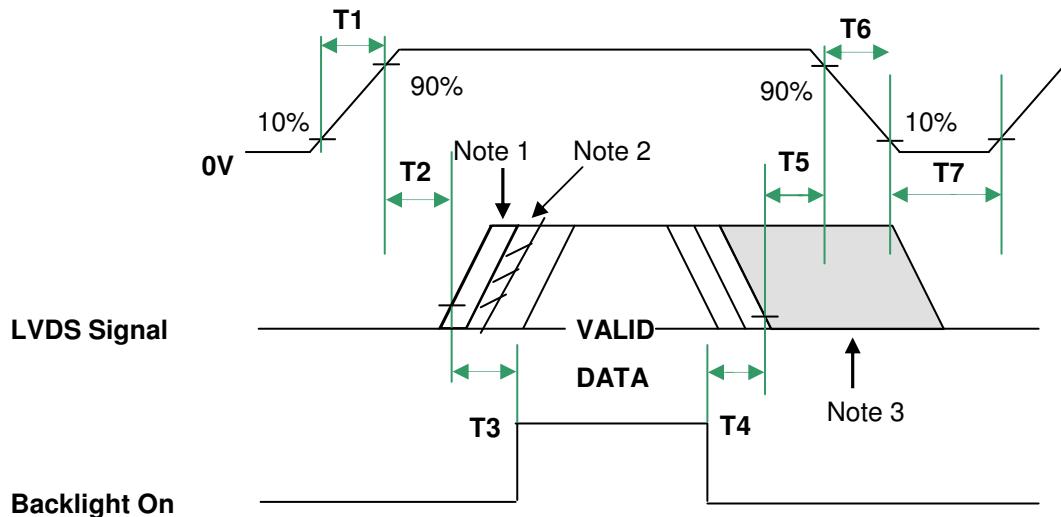
Note : DE mode only

6.4.2 Timing Diagram



6.5 Power ON/OFF Sequence

VDD power and lamp on/off sequence are 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.



Note1: insert a white pattern 360ms

Note2: insert a black pattern

Note3 :insert a white pattern after valid data and last until VDD falls to 10%.

Note4 :when AC on/off, timing rule of logo power on/off is the same as above.

| Parameter | Value | | | Unit |
|-----------|-------|------|------|------|
| | Min. | Typ. | Max. | |
| T1 | 0.5 | - | 10 | [ms] |
| T2 | 0 | 40 | 50 | [ms] |
| T3 | 500 | - | - | [ms] |
| T4 | 300 | - | - | [ms] |
| T5 | 40 | 1500 | - | [ms] |
| T6 | - | - | - | [ms] |
| T7 | 1000 | - | - | [ms] |



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 Module

7.1.1 Connector

| Connector Name / Designation | Interface Connector / Interface card |
|------------------------------|--------------------------------------|
| Manufacturer | P-TWO / JAE |
| Type Part Number | 187034-30091 / FI-XB30SSLA-HF15 |
| Mating Housing Part Number | FI-X30HL FI-X30H (Unlocked Type) |

7.1.2 Pin Assignment

| Pin# | Signal Name | Pin# | Signal Name |
|------|-------------|------|-------------|
| 1 | RxOIN0- | 2 | RxOIN0+ |
| 3 | RxOIN1- | 4 | RxOIN1+ |
| 5 | RxOIN2- | 6 | RxOIN2+ |
| 7 | GND | 8 | RxOCLKIN- |
| 9 | RxOCLKIN+ | 10 | RxOIN3- |
| 11 | RxOIN3+ | 12 | RxEIN0- |
| 13 | RxEIN0+ | 14 | GND |
| 15 | RxEIN1- | 16 | RxEIN1+ |
| 17 | GND | 18 | RxEIN2- |
| 19 | RxEIN2+ | 20 | RxECLKIN- |
| 21 | RxECLKIN+ | 22 | RxEIN3- |
| 23 | RxEIN3+ | 24 | GND |
| 25 | GND | 26 | NC |
| 27 | NC | 28 | POWER |
| 29 | POWER | 30 | POWER |



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7.2 Connector on Backlight Unit.

This connector is mounted on LED light-bar.

| | |
|------------------------------|----------------------------|
| Connector Name / Designation | Light Bar Connector |
| Manufacturer | ENTERY INDUSTRIAL CO., LTD |
| Type Part Number | 3707K-Q06N-01R |

7.2.1 Pin assignment

| Pin no. | Signal name |
|---------|---------------------|
| 1 | IRLED (current out) |
| 2 | IRLED (current out) |
| 3 | VLED (voltage in) |
| 4 | VLED (voltage in) |
| 5 | IRLED (current out) |
| 6 | IRLED (current out) |



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8. Reliability Test

Environment test conditions are listed as following table.

| Items | Required Condition | Note |
|-----------------------------------|---|------|
| Temperature Humidity Bias (THB) | Ta= 50°C, 80%RH, 300hours | |
| High Temperature Operation (HTO) | Ta= 50°C, 50%RH, 300hours | |
| Low Temperature Operation (LTO) | Ta= 0°C, 300hours | |
| High Temperature Storage (HTS) | Ta= 60°C, 300hours | |
| Low Temperature Storage (LTS) | Ta= -20°C, 300hours | |
| Vibration Test (Non-operation) | Acceleration: 1.5 G Wave: Random Frequency: 10 - 200 - 10 Hz Sweep: 30 Minutes each Axis (X, Y, Z) | |
| Shock Test (Non-operation) | Acceleration: 50 G Wave: Half-sine Active Time: 20 ms Direction: ±X, ±Y, ±Z (one time for each Axis) | |
| Drop Test | Height: 60 cm, package test | |
| Thermal Shock Test (TST) | -20°C/30min, 60°C/30min, 100 cycles | 1 |
| On/Off Test | On/10sec, Off/10sec, 30,000 cycles | |
| ESD (ElectroStatic Discharge) | Contact Discharge: ± 8KV, 150pF(330Ω) 1sec, 9 points, 25 times/ point. | 2 |
| | Air Discharge: ± 15KV, 150pF(330Ω) 1sec 9 points, 25 times/ point. | |
| Altitude Test | Operation:10,000 ft Non-Operation:30,000 ft | |

Note 1: The TFT-LCD module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20°C to 60°C, and back again. Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before power on.

Note 2: According to EN61000-4-2 , ESD class B:

Some performance degradation allowed.

No data lost.

Self-recoverable.

No hardware failures.



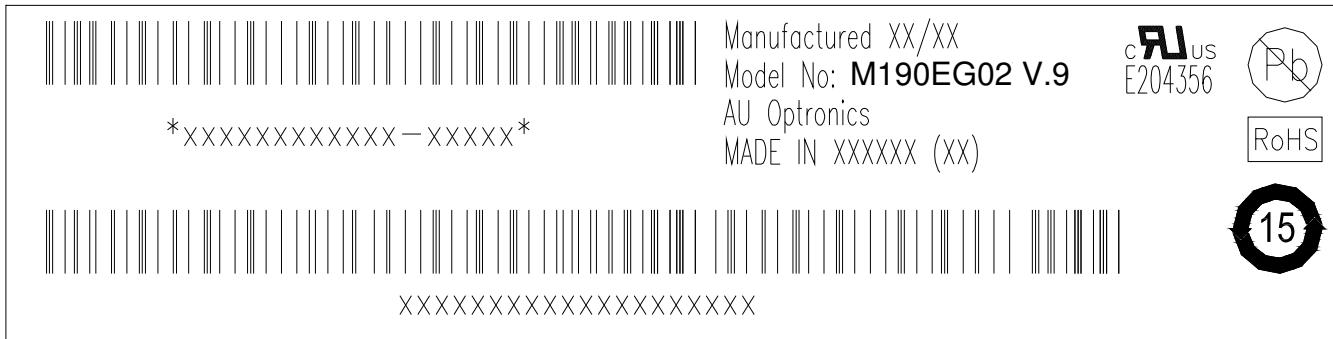
Product Specification

AU Optronics Corporation

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9. Shipping Label

The shipping label format is shown as below.



Note 1: For Pb Free products, AUO will add for identification.

Note 2: For RoHS compatible products, AUO will add for identification.

Note 3: For China RoHS compatible products, AUO will add for identification.

Note 4: The Green Mark will be presented only when the green documents have been ready by AUO Internal Green Team.



Product Specification

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10. Mechanical Characteristic



Product Specification

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