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Product Specification

AU OPTRONICS CORPORATION

B141PW01 V0

Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2005/09/19	All	First Edition for Customer		
0.2 2005/11/07	5	Power consumption	From 5.1W (typ) to 5.5W (typ)	



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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) 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 CCFL Reflector edge. Instead, press at the far ends of the CFL Reflector 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 (Notebook PC Bezel, for example), 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) Cold cathode fluorescent lamp in LCD contains a small amount of mercury. Please follow local ordinances or regulations for disposal.
- 13) 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.
- 14) The LCD module is designed so that the CCFL in it is supplied by Limited Current Circuit(IEC60950 or UL1950). Do not connect the CCFL in Hazardous Voltage Circuit.



Product Specification

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B141PW01 V0

2. General Description

B141PW01 V0 is a Color Active Matrix Liquid Crystal Display composed of a TFT LCD panel, a driver circuit, and backlight system. The screen format is intended to support the WXGA+ (1440(H) x 900(V)) screen and 262k colors (RGB 6-bits data driver). All input signals are LVDS interface compatible. Inverter of backlight is not included.

B141PW01 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]	357.7 (14.1W")
Active Area	[mm]	303.48 X 189.675
Pixels H x V		1440x3(RGB) x 900
Pixel Pitch	[mm]	0.21075X0.21075
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally White
White Luminance (I _{CCFL} =6.0mA) Note: I _{CCFL} is lamp current	[cd/m ²]	220 typ. (5 points average) 190 min. (5 points average) (Note1)
Luminance Uniformity		1.2 max. (5 points)
Contrast Ratio		350 typ
Optical Rise Time/Fall Time	[msec]	15/10 typ.
Nominal Input Voltage VDD	[Volt]	+3.3 typ.
Power Consumption	[Watt]	5.5 typ .(without inverter)
Weight	[Grams]	390 typ.
Physical Size	[mm]	320.5(W) x 206 (H) x 5.5(D) Max.
Electrical Interface		1 channel LVDS
Surface Treatment		Haze 25, hard coating 3H,AG
Support Color		262K colors (RGB 6-bit)
Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance



Product Specification

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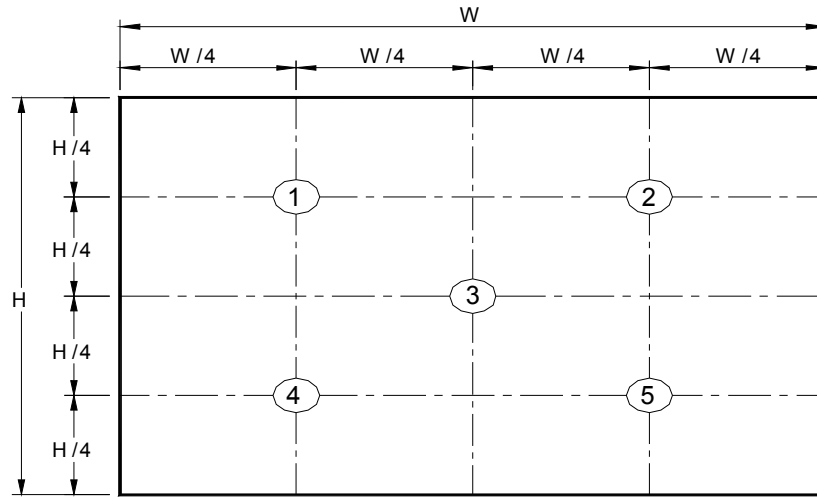
B141PW01 V0

2.2 Optical Characteristics

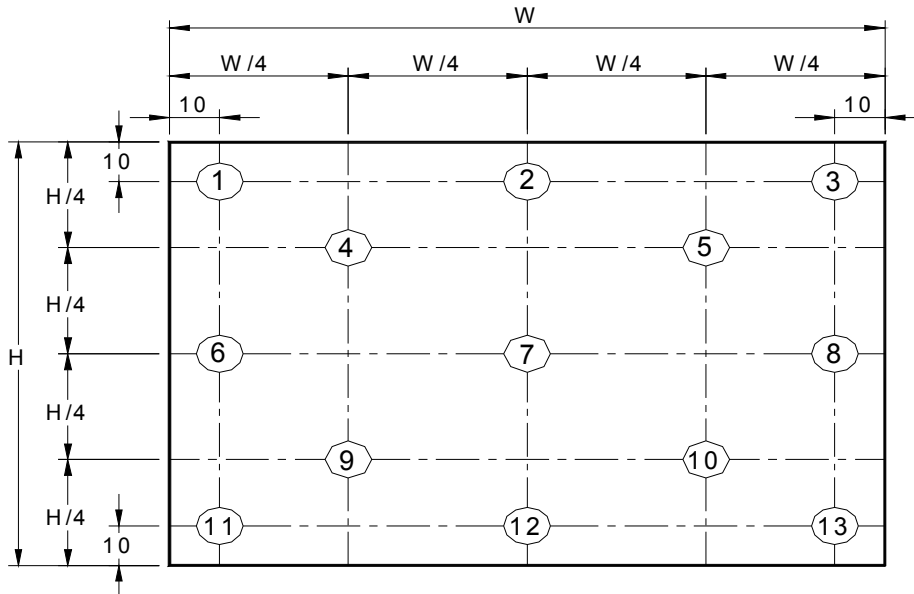
The optical characteristics are measured under stable conditions at 25°C (Room Temperature):

Item	Unit	Conditions	Min.	Typ.	Max.	Note
White Luminance I _{CCFL} =6.0mA	[cd/m ²]	5 points average	190	220	-	1, 4, 5.
Viewing Angle	[degree]	Horizontal (Right)	-	45	-	8
	[degree]	CR = 10 (Left)	-	45	-	
	[degree]	Vertical (Upper)	-	20	-	
	[degree]	CR = 10 (Lower)	-	35	-	
Luminance Uniformity		5 Points			1.2	1
Luminance Uniformity		13 Points			1.8	2
CR: Contrast Ratio			350	400	-	6
Cross talk	%				1.4	7
Response Time	[msec]	Rising	-	15	20	8
	[msec]	Falling	-	10	15	
	[msec]	Rising + Falling		25	35	
Color / Chromaticity Coordinates (CIE 1931)		Red x	0.550	0.580	0.610	2,8
		Red y	0.310	0.340	0.370	
		Green x	0.280	0.310	0.340	
		Green y	0.520	0.550	0.580	
		Blue x	0.125	0.155	0.185	
		Blue y	0.115	0.145	0.175	
		White x	0.283	0.313	0.343	
		White y	0.299	0.329	0.359	

Note 1: 5 points position (Display area : 303.48mm x 189.675mm)



Note 2: 13 points position



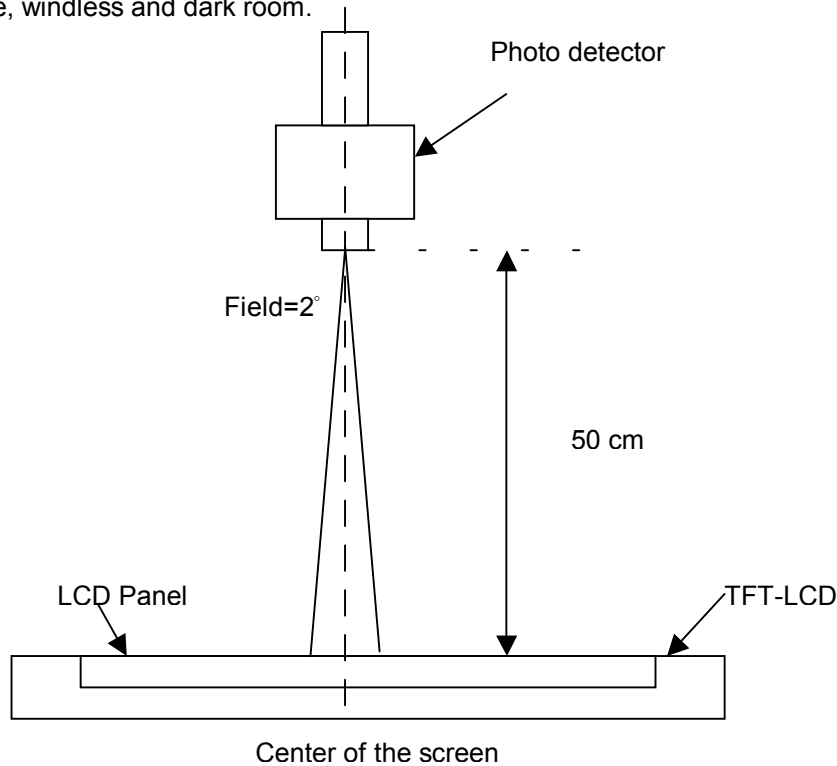
Note 3: The luminance uniformity of 5 and 13 points is defined by dividing the maximum luminance values by the minimum test point luminance

$$\delta_{W5} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

$$\delta_{W13} = \frac{\text{Maximum Brightness of thirteen points}}{\text{Minimum Brightness of thirteen points}}$$

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.



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.

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

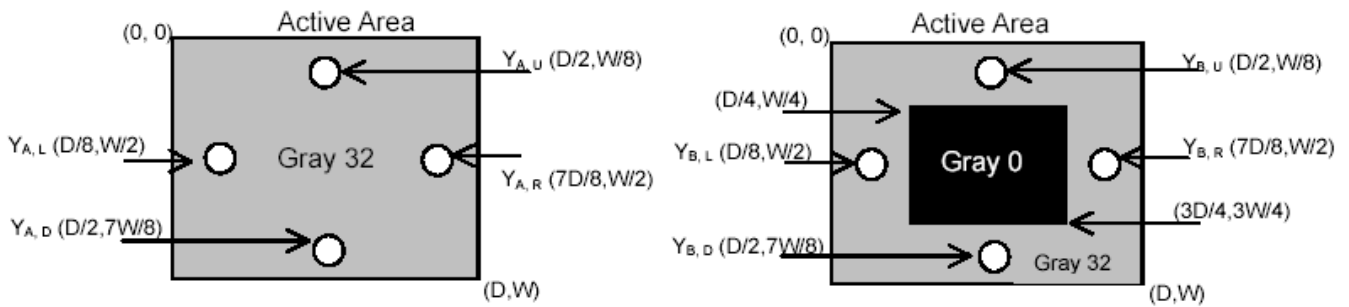
Note 7 : Definition of Cross Talk (CT)

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

Where

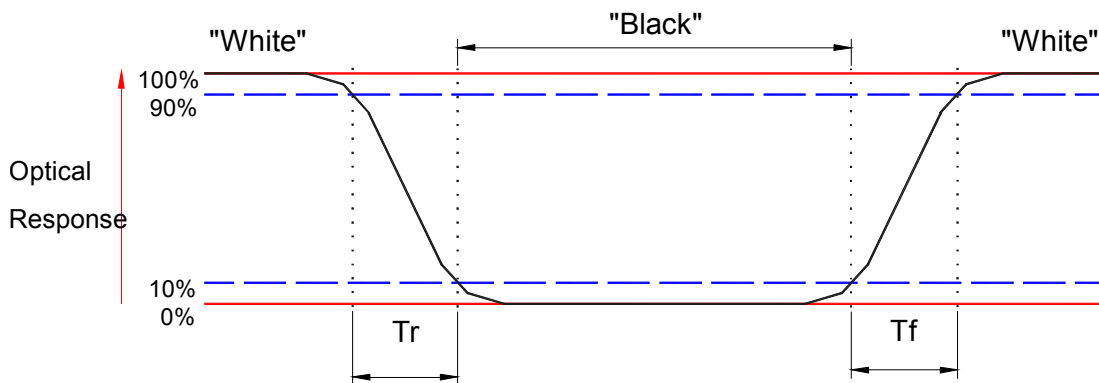
Y_A = Luminance of measured location without gray level 0 pattern (cd/m^2)

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



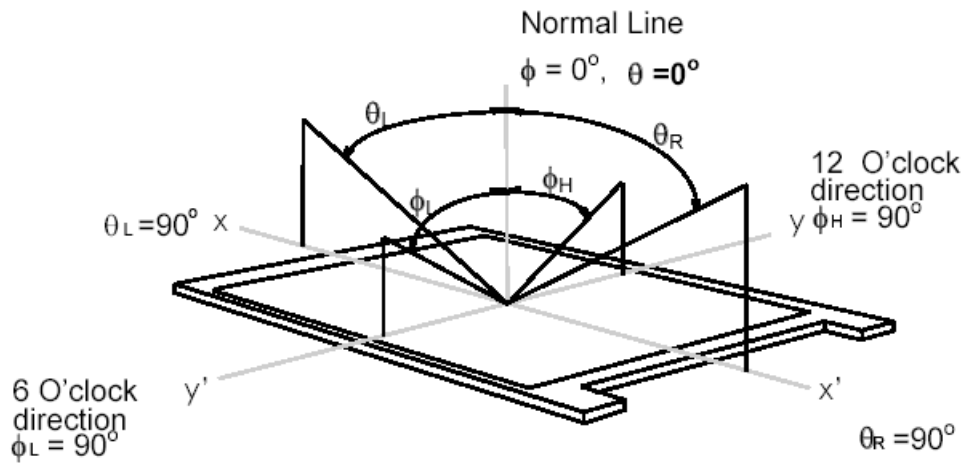
Note 8: Definition of response time:

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.



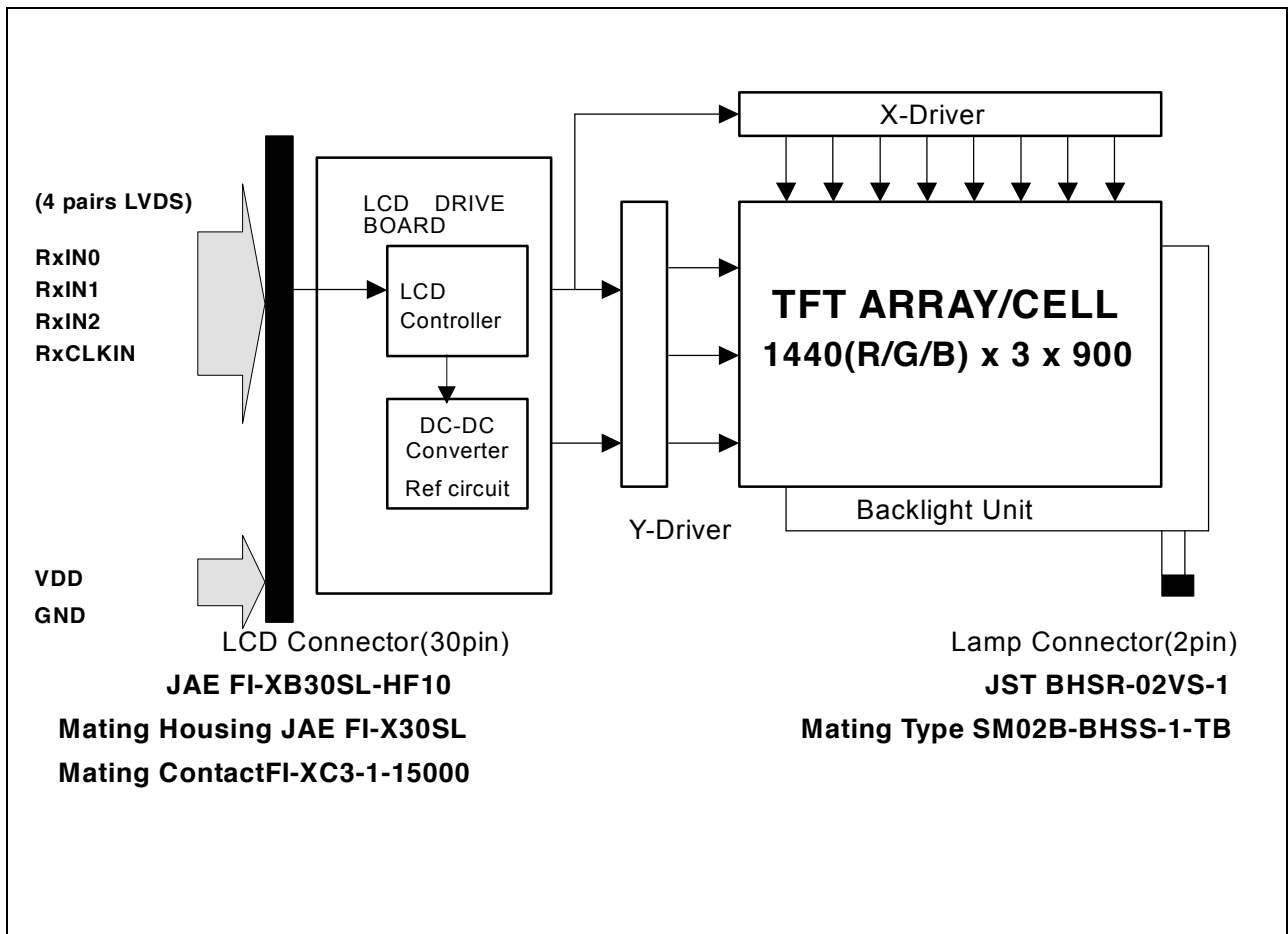
Note 8. Definition of viewing angle

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 14.1 inches wide Color TFT/LCD Module:



4. Absolute Maximum Ratings

Absolute maximum ratings of the module is as following:

4.1 Absolute Ratings of TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive	Vin	-0.3	+4.0	[Volt]	Note 1,2

4.2 Absolute Ratings of Backlight Unit

Item	Symbol	Min	Max	Unit	Conditions
CCFL Current	ICCFL	2.5	7	[mA] rms	Note 1,2

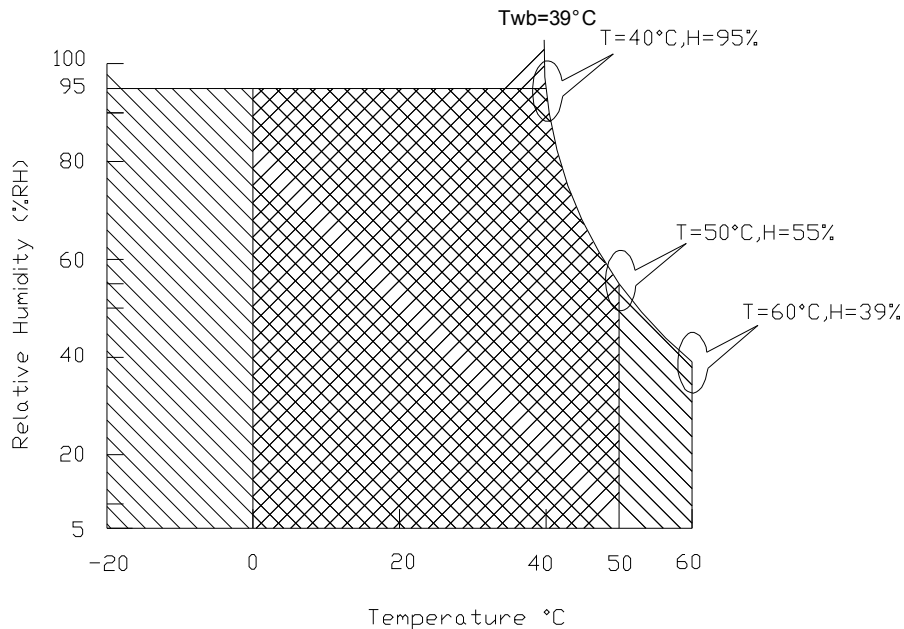
4.3 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	Note 3
Operation Humidity	HOP	5	95	[%RH]	Note 3
Storage Temperature	TST	-20	+60	[°C]	Note 3
Storage Humidity	HST	5	95	[%RH]	Note 3

Note 1: At Ta (25°C)

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

Note 3: For quality performance, please refer to AUO IIS(Incoming Inspection Standard).



Operating Range



Storage Range



5. Electrical characteristics

5.1 TFT LCD Module

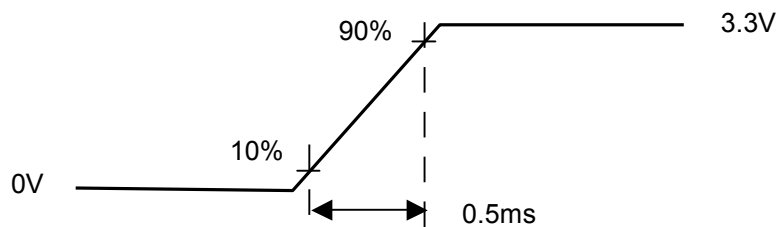
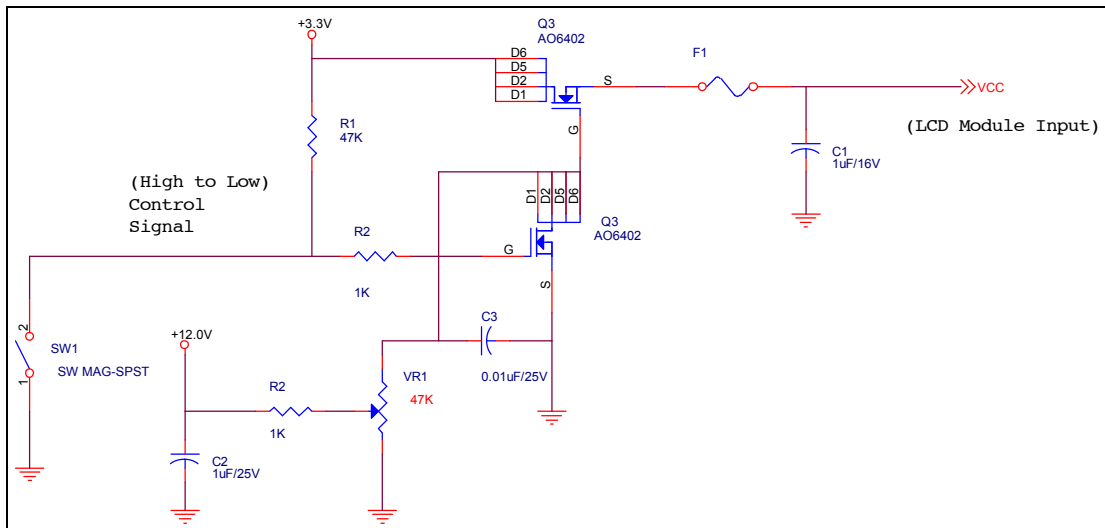
5.1.1 Power Specification

Input power specifications are as follows;

Symbol	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
IDD	IDD Current		TBD	TBD	[mA]	Note 1
IRush	Inrush Current			TBD	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage			100	[mV] p-p	

Note 1 : Maximum Measurement Condition : Black Pattern

Note 2 : Measure Condition



Vin rising time

5.1.2 Signal Electrical Characteristics

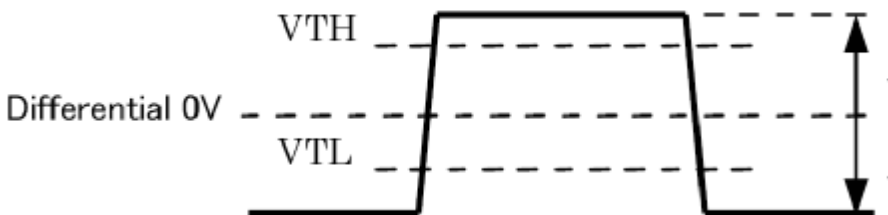
Input signals shall be low or High-impedance state when VDD is off.

It is recommended to refer the specifications of SN75LVDS86DGG (Texas Instruments) 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	1.125	1.375	[V]

Note: LVDS Differential Voltage





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5.2 Backlight Unit

Parameter guideline for CCFL Inverter

Parameter	Min	Typ	Max	Units	Condition
White Luminance 5 points average	190	220	-	[cd/m ²]	(Ta=25°C)
CCFL current(I _{CCFL})	2.5	6.0	7	[mA] rms	(Ta=25°C) Note 2
CCFL Frequency(F _{CCFL})	50	60	65	[KHz]	(Ta=25°C) Note 3,4
CCFL Ignition Voltage(Vs)	-	1000	1200	[Volt] rms	(Ta= 0°C) Note 5
CCFL Voltage (Reference) (V _{CCFL})	-	650	-	[Volt] rms	(Ta=25°C) Note 6
CCFL Power consumption (P _{CCFL})	-	4.2	-	[Watt]	(Ta=25°C) Note 6

Note 1: Typ are AUO recommended Design Points.

*1 All of characteristics listed are measured under the condition using the AUO Test inverter.

*2 In case of using an inverter other than listed, it is recommended to check the inverter carefully.

Sometimes, interfering noise stripes appear on the screen, and substandard luminance or flicker at low power may happen.

*3 In designing an inverter, it is suggested to check safety circuit very carefully. Impedance of CCFL, for instance, becomes more than 1 [M ohm] when CFL is damaged.

*4 Generally, CCFL has some amount of delay time after applying kick-off voltage. It is recommended to keep on applying kick-off voltage for 1 [Sec] until discharge.

*5 CCFL discharge frequency must be carefully chosen so as not to produce interfering noise stripes on the screen.

*6 Reducing CCFL current increases CCFL discharge voltage and generally increases CCFL discharge frequency. So all the parameters of an inverter should be carefully designed so as not to produce too much leakage current from high-voltage output of the inverter.

Note 2: It should be employed the inverter which has "Duty Dimming", if ICCFL is less than 4mA.

Note 3: CCFL discharge frequency should be carefully determined to avoid interference between inverter and TFT LCD.

Note 4: The frequency range will not affect to lamp life and reliability characteristics.

Note 5: CCFL inverter should be able to give out a power that has a generating capacity of over 1,430 voltage. Lamp units need 1,400 voltage minimum for ignition.

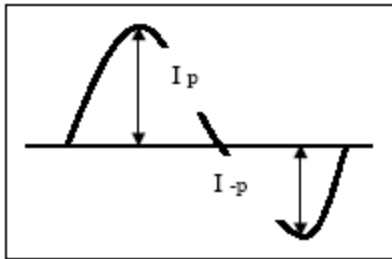
Note 6: Calculator value for reference ($I_{CCFL} \times V_{CCFL} = P_{CCFL}$)

Note 7: Requirements for a system inverter design, which is intended to have a better display performance, a better power efficiency and a more reliable lamp, are following.

It shall help increase the lamp lifetime and reduce leakage current.

- a. The asymmetry rate of the inverter waveform should be less than 10%.
- b. The distortion rate of the waveform should be within $\sqrt{2} \pm 10\%$.

* Inverter output waveform had better be more similar to ideal sine wave.



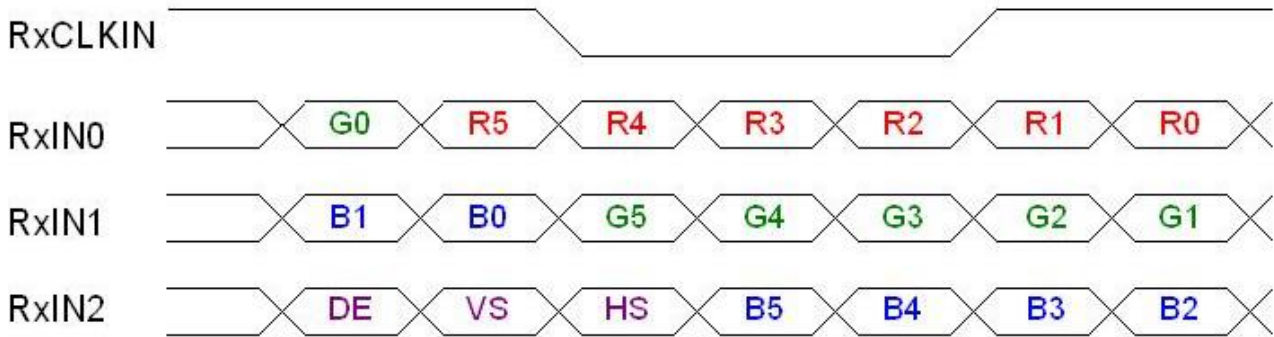
* Asymmetry rate:

$$\frac{|I_p - I_{-p}|}{I_{rms}} * 100\%$$

* Distortion rate

$$I_p \text{ (or } I_{-p}) / I_{rms}$$

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	Red-pixel Data Each red pixel's brightness data consists of these 6 bits 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	Green-pixel Data Each green pixel's brightness data consists of these 6 bits 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	Blue-pixel Data Each blue pixel's brightness data consists of these 6 bits pixel data.
RxCLKIN	Data Clock	The typical frequency is 68.9 MHz. 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.



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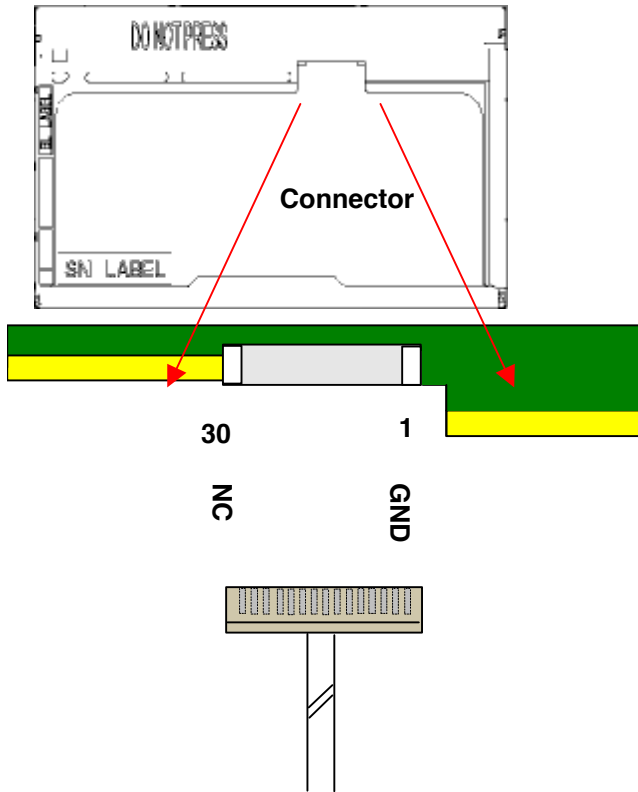
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6.3 Signal Description/Pin Assignment

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

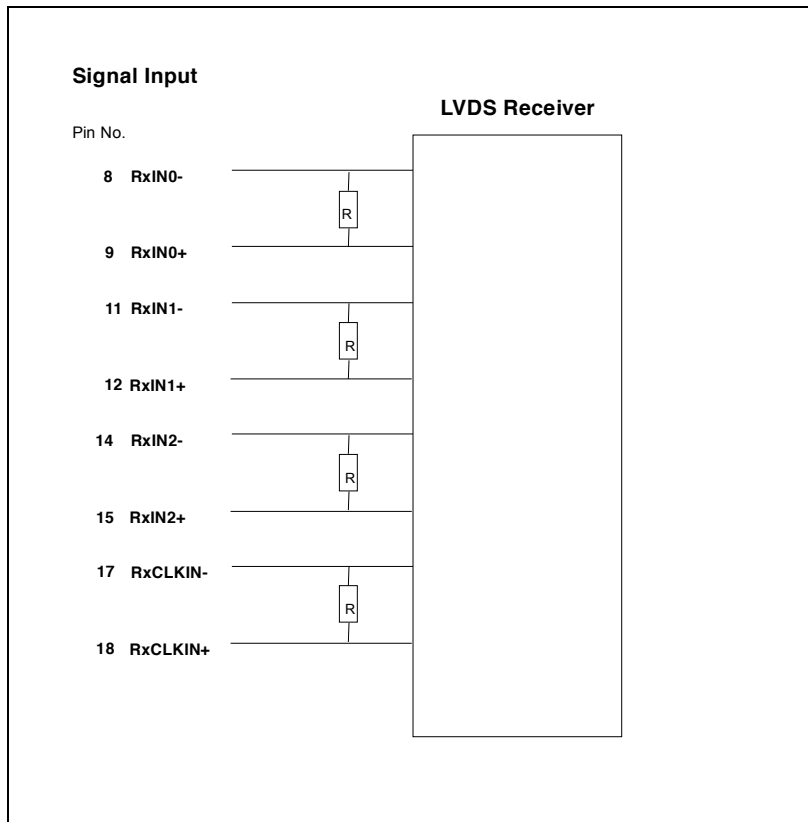
Pin no	Symbol	Function	Etc.
1	GND	Ground	
2	VDD	Power supply ,3.3 V (typical)	
3	VDD	Power supply ,3.3 V (typical)	
4	V _{EDID}	DDC 3.3V power	
5	NC	No Connection (Reserved for AUO) test	
6	CLK _{EDID}	DDC Clock	
7	Data _{EDID}	DDC data	
8	Odd_RxIN0-	-LVDS differential data input	
9	Odd_RxIN0+	+LVDS differential data input	
10	GND	Ground	
11	Odd_RxIN1-	-LVDS differential data input	
12	Odd_RxIN1+	+LVDS differential data input	
13	GND	Ground	
14	Odd_RxIN2-	-LVDS differential data input	
15	Odd_RxIN2+	+LVDS differential data input	
16	GND	Ground	
17	Odd_RxCLKIN-	-LVDS differential clock input	
18	Odd_RxCLKIN+	+LVDS differential clock input	
19	GND	Ground	
20	Even_RxIN0-	-LVDS differential data input	
21	Even_RxIN0+	+LVDS differential data input	
22	GND	Ground	
23	Even_RxIN1-	-LVDS differential data input	
24	Even_RxIN1+	+LVDS differential data input	
25	GND	Ground	
26	Even_RxIN2-	-LVDS differential data input	
27	Even_RxIN2+	+LVDS differential data input	
28	GND	Ground	
29	Even_RxCLKIN-	-LVDS differential clock input	
30	Even_RxCLKIN+	+LVDS differential clock input	

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

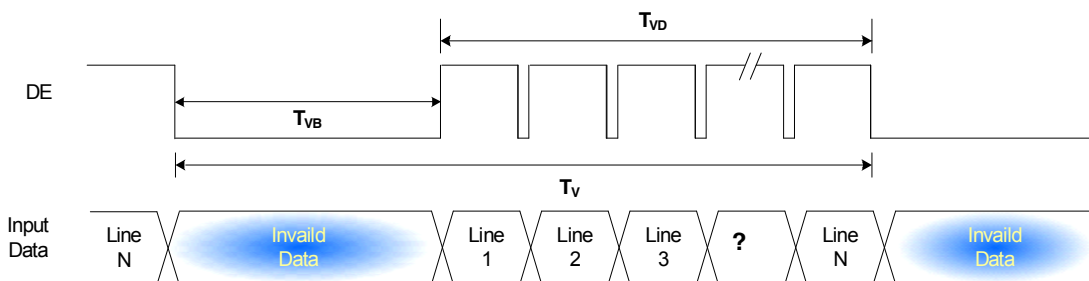
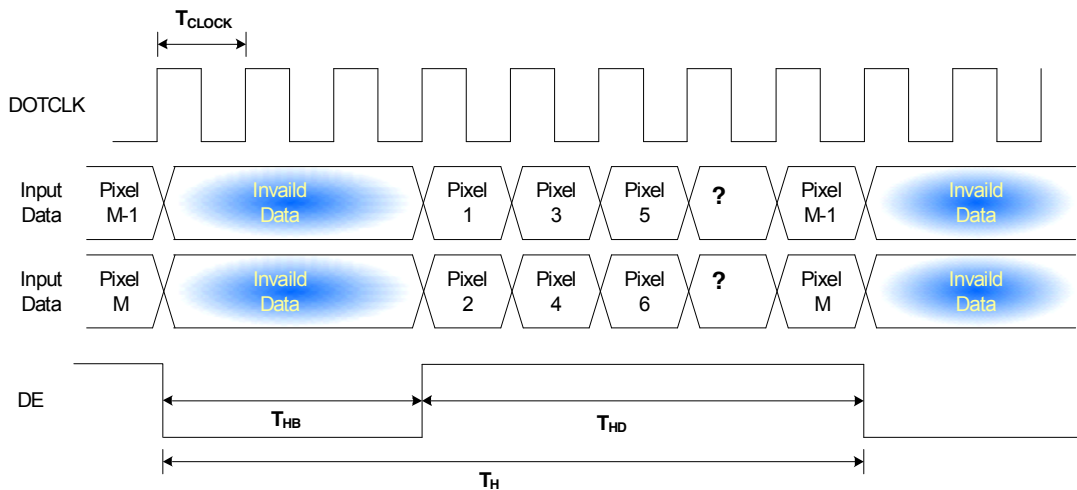
Basically, interface timings should match the 1440x900 /60Hz manufacturing guide line timing.

Parameter	Symbol	Min.	Typ.	Max.	Unit	
Frame Rate	-	50	60	-	Hz	
Clock frequency	$1/T_{Clock}$	-	48.2	-	MHz	
Vertical Section	Period	T_V	904	912	2048	T_{Line}
	Active	T_{VD}	900	900	900	
	Blanking	T_{VB}	4	12	-	
Horizontal Section	Period	T_H	760	880	1024	T_{Clock}
	Active	T_{HD}	720-	720	720	
	Blanking	T_{HB}	40	160	-	

Note : DE mode only

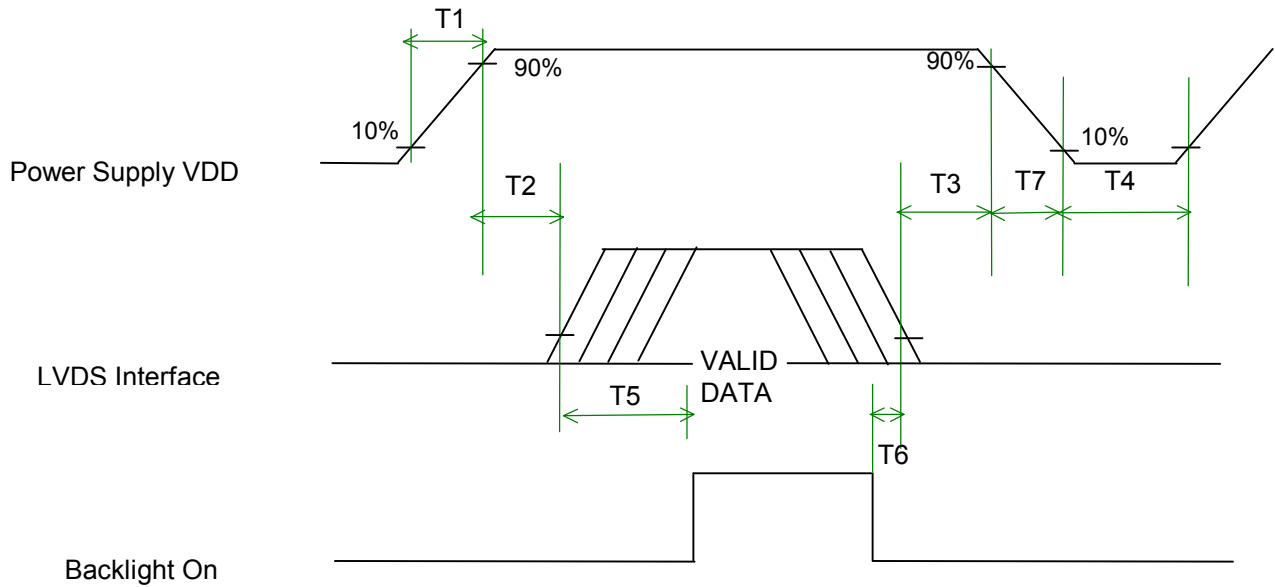
6.4.2 Timing diagram

Input Timing Definition



6.5 Power ON/OFF Sequence

VDD power and lamp 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	(ms)
T3	0	-	50	(ms)
T4	200	-	-	(ms)
T5	200	-	-	(ms)
T6	0	-	-	(ms)
T7	0	-	10	(ms)



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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	JAE or compatible
Type / Part Number	FI-XB30SL-HF10 or compatible
Mating Housing/Part Number	FI-X30H or compatible

7.2 Backlight Unit

Physical interface is described as for the connector on module.

These connectors are capable of accommodating the following signals and will be following components.

Connector Name / Designation	For Lamp Connector
Manufacturer	JST
Type / Part Number	BHSR-02VS-1
Mating Type / Part Number	SM02B-BHSS-1-TB

7.3 Signal for Lamp connector

Pin #	Cable color	Signal Name
1	Red	Lamp High Voltage
2	White	Lamp Low Voltage



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8. Vibration and Shock Test

8.1 Vibration Test

Test Spec:

Test method: Non-Operation
Acceleration: 2.16G
Frequency: 10 - 500Hz Random
Sweep: 30 Minutes each Axis (X, Y, Z)

8.2 Shock Test Spec:

Test Spec:

Test method: Non-Operation
Acceleration: 240 G , Half sine wave
Active time: 2 ms
Pulse: X,Y,Z .one time for each side



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9. Reliability

Items	Required Condition	Note
Temperature Humidity Bias	40°C/90%,300Hr	
High Temperature Operation	60°C/Dry,300Hr	
Low Temperature Operation	0°C,300Hr	
On/Off Test	25°C, ON/30 sec. OFF/30sec., 10,000 cycles)	
Hot Storage	60°C/35% RH ,250 hours	
Cold Storage	-20°C/50% RH ,250 hours	
Thermal Shock Test	-20°C/30 min ,60°C/30 min 100cycles	
Hot Start Test	50°C/1 Hr min. power on/off per 5 minutes, 5 times	
Cold Start Test	0°C/1 Hr min. power on/off per 5 minutes, 5 times	
Shock Test (Non-Operating)	240G, 2ms, Half-sine wave	
Vibration Test (Non-Operating)	Random vibration, 2.16 G zero-to-peak, 10 to 500 Hz, 30 mins in each of three mutually perpendicular axes.	
ESD	Contact : ±8KV/ operation Air : ±15KV / operation	Note 1
Room temperature Test	25°C, 2000hours, Operating with loop pattern	

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

Note2: CCFL Life time: 10,000 hours minimum under normal module usage.

Note3: MTBF (Excluding the CCFL): 30,000 hours with a confidence level 90%

10. Mechanical Characteristics

10.1 LCM Outline Dimension

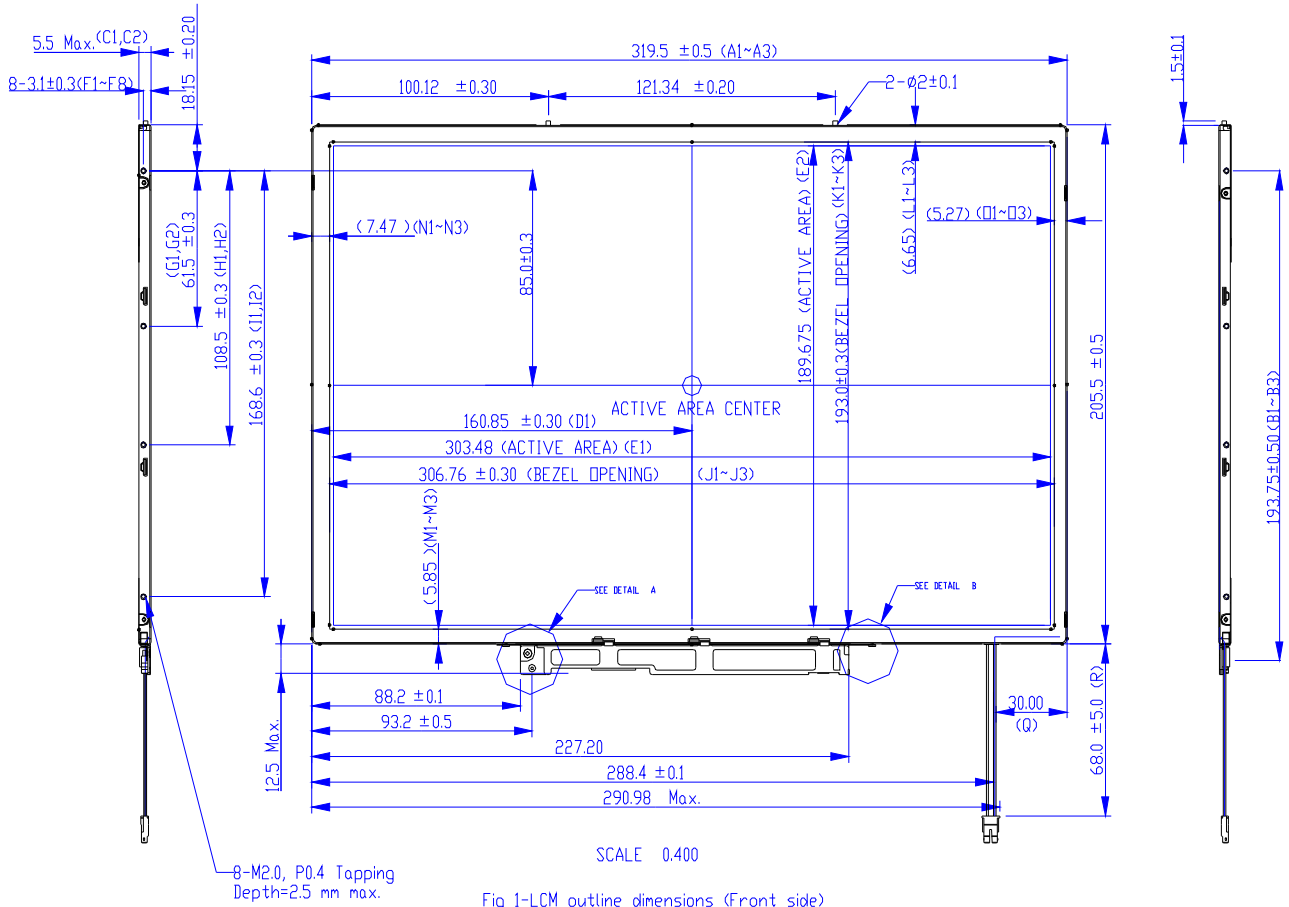


Fig 1-LCM outline dimensions (Front side)



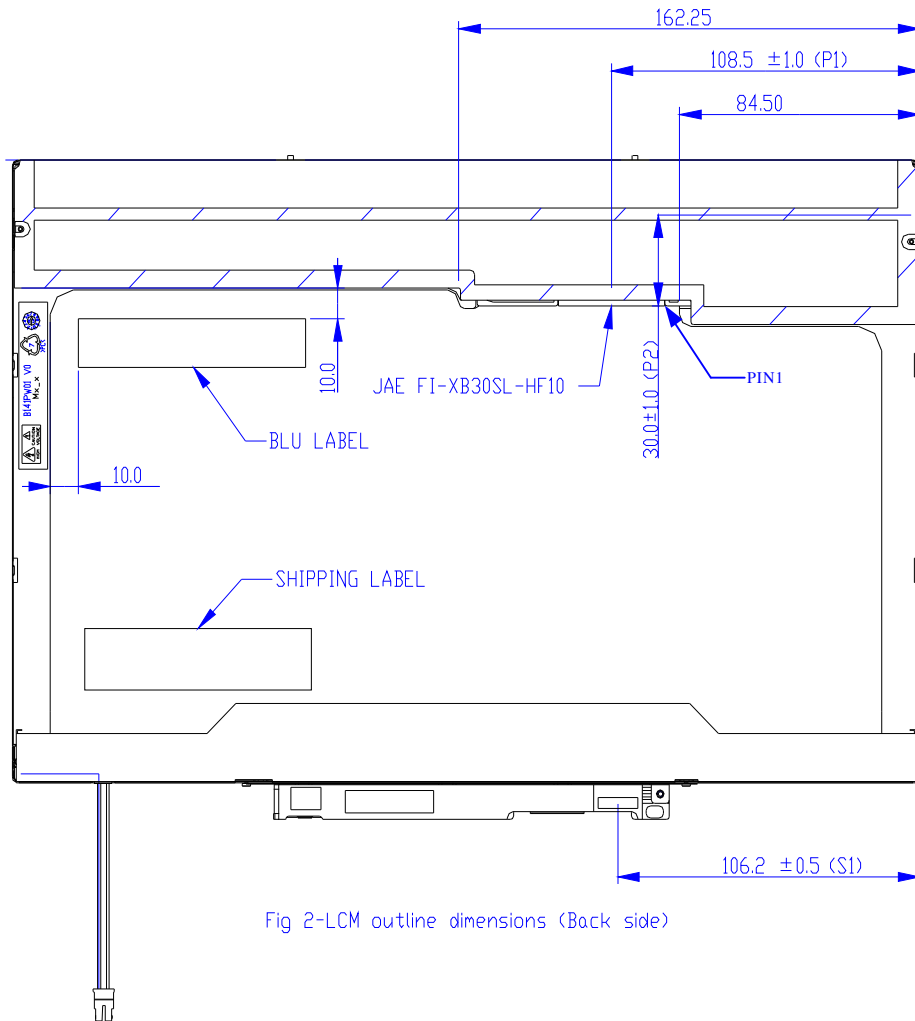


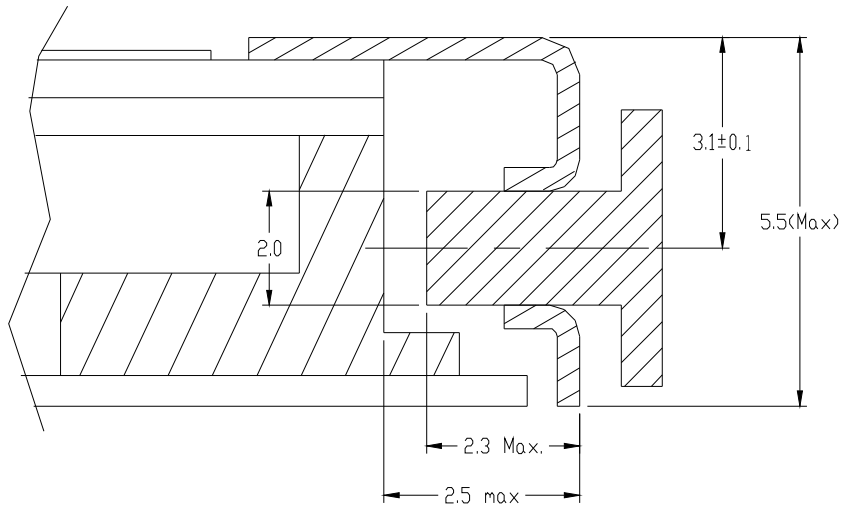
Fig 2-LCM outline dimensions (Back side)

10.2 Screw Hole Depth and Center Position

Screw hole minimum depth, from side surface = 2.5 mm (See drawing)

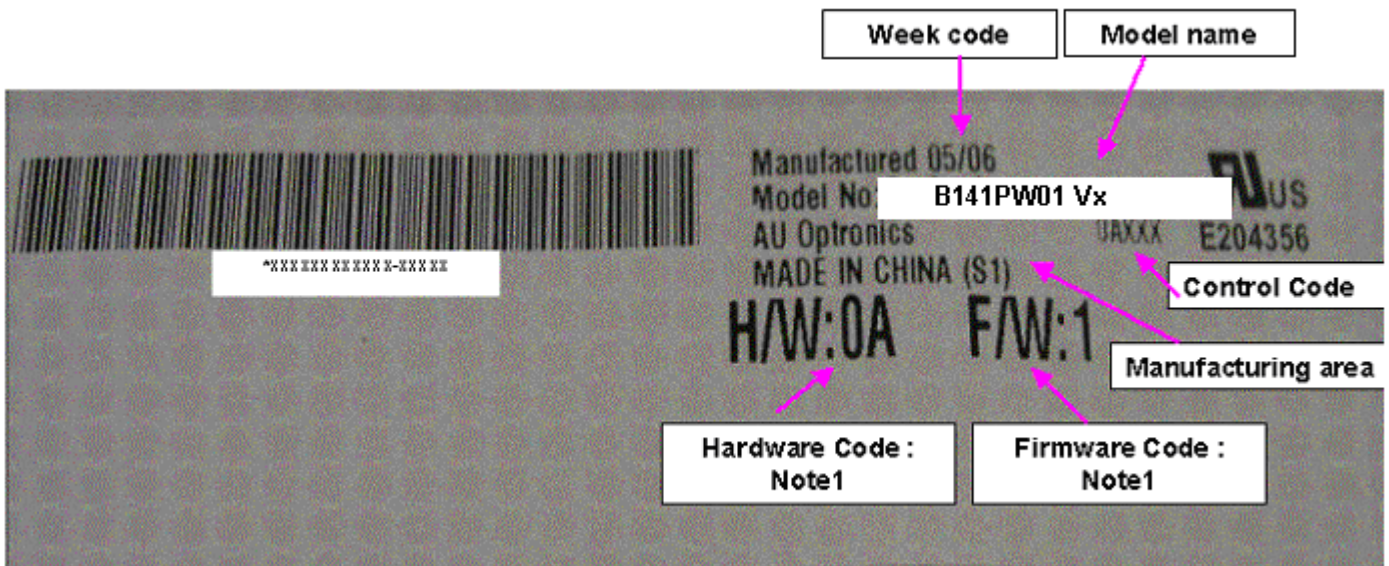
Screw hole center location, from front surface = 3.1 ± 0.2 mm (See drawing)

Screw Torque: Maximum 2.5 kgf-cm



11. Shipping and Package

11.1 Shipping Label Format

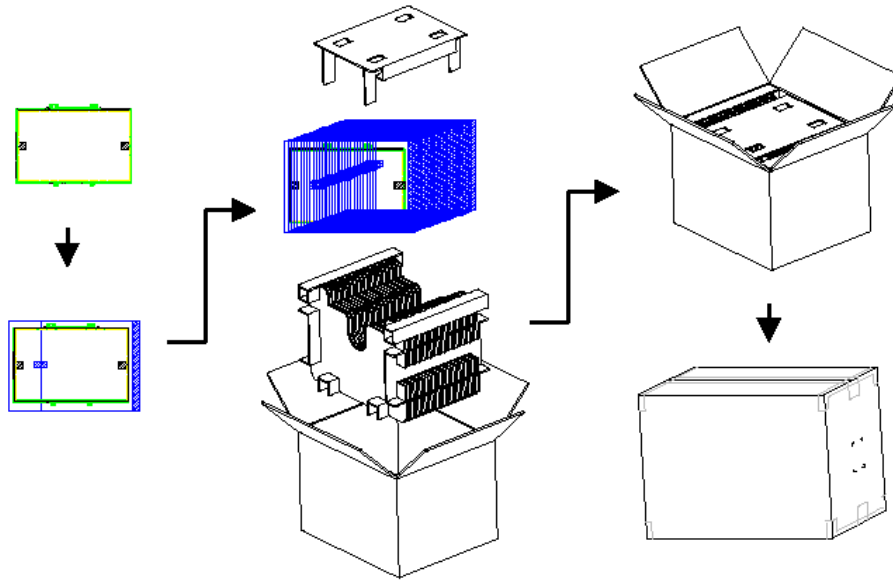


Note 1:

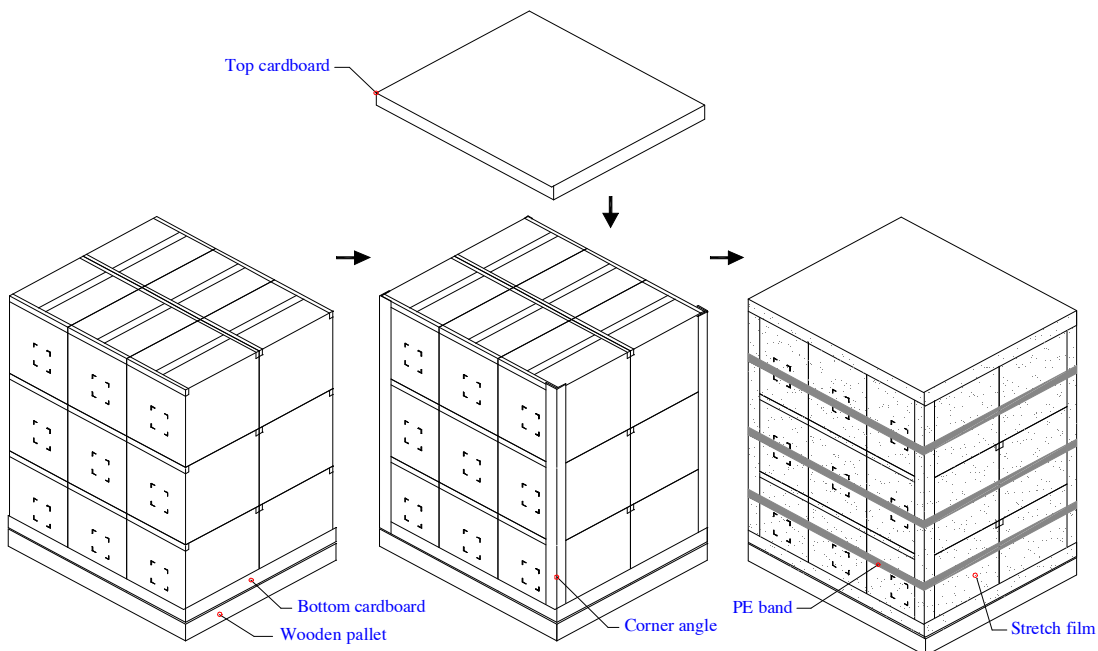
IC Combination	Control Code	H/W
First Source	OAXXX	OA
Second Source	1AXXX	1A

11.2. Carton package

The outside dimension of carton is 455 (L)mm x 388 (W)mm x 355 (H)mm



11.3 Shipping package of palletizing sequence



Note : Limit of box palletizing = Max 3 layers(ship and stock conditions)



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12. EDID

	Byte	Field Name and Comments	Value	Value
	(hex)		(hex)	(binary)
Header	0	Header	00	00000000
	1	Header	FF	11111111
	2	Header	FF	11111111
	3	Header	FF	11111111
	4	Header	FF	11111111
	5	Header	FF	11111111
	6	Header	FF	11111111
	7	Header	00	00000000
Vendor / Product EDID Version	8	EISA manufacture code = 3 Character ID	06	00000110
	9	EISA manufacture code (Compressed ASCII)	AF	10101111
	0A	Panel Supplier Reserved – Product Code	47	01000111
	0B	Panel Supplier Reserved – Product Code	10	00010000
	0C	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000
	0D	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000
	0E	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000
	0F	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000
	10	Week of manufacture	01	00000001
	11	Year of manufacture	0F	00001111
	12	EDID structure version # = 1	01	00000001
	13	EDID revision # = 3	03	00000011
	Display Parameters	14	Video I/P definition = Digital I/P (80h)	80
15		Max H image size = (Rounded to cm)	1E	00011110
16		Max V image size = (Rounded to cm)	13	00010011
17		Display gamma = (gamma ×100)-100 = Example: (2.2 × 100) – 100 = 120	78	01111000
18		Feature support (no DPMS, Active off, RGB, timing BLK 1)	0A	00001010
Panel Color Coordinates	19	Red/Green Low bit (RxRy/GxGy)	87	10000111
	1A	Blue/White Low bit (BxBY/WxWy)	C5	11000101
	1B	Red X Rx = 0.xxx	94	10010100
	1C	Red Y Ry = 0.xxx	57	01010111
	1D	Green X Gx = 0.xxx	4F	01001111
	1E	Green Y Gy = 0.xxx	8C	10001100
	1F	Blue X Bx = 0.xxx	27	00100111



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	20	Blue Y $B_y = 0.xxx$	25	00100101
	21	White X $W_x = 0.xxx$	50	01010000
	22	White Y $W_y = 0.xxx$	54	01010100
Established Timings	23	Established timings 1 (00h if not used)	00	00000000
	24	Established timings 2 (00h if not used)	00	00000000
	25	Manufacturer's timings (00h if not used)	00	00000000
Standard Timing ID	26	Standard timing ID1 (01h if not used)	01	00000001
	27	Standard timing ID1 (01h if not used)	01	00000001
	28	Standard timing ID2 (01h if not used)	01	00000001
	29	Standard timing ID2 (01h if not used)	01	00000001
	2A	Standard timing ID3 (01h if not used)	01	00000001
	2B	Standard timing ID3 (01h if not used)	01	00000001
	2C	Standard timing ID4 (01h if not used)	01	00000001
	2D	Standard timing ID4 (01h if not used)	01	00000001
	2E	Standard timing ID5 (01h if not used)	01	00000001
	2F	Standard timing ID5 (01h if not used)	01	00000001
	30	Standard timing ID6 (01h if not used)	01	00000001
	31	Standard timing ID6 (01h if not used)	01	00000001
	32	Standard timing ID7 (01h if not used)	01	00000001
	33	Standard timing ID7 (01h if not used)	01	00000001
	34	Standard timing ID8 (01h if not used)	01	00000001
	35	Standard timing ID8 (01h if not used)	01	00000001
	Timing Descriptor #1	36	Pixel Clock/10,000 (LSB)	38
37		Pixel Clock/10,000 (MSB)	22	00100010
38		Horizontal Active = xxxx pixels (lower 8 bits)	A0	10100000
39		Horizontal Blanking (Thbp) = xxxx pixels (lower 8 bits)	A0	10100000
3A		Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000
3B		Vertical Active = xxxx lines	84	10000100
3C		Vertical Blanking (Tvbp) = xxxx lines (DE Blanking typ. for DE only panels)	0C	00001100
3D		Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000
3E		Horizontal Sync, Offset (Thfp) = xxxx pixels	30	00110000



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	5E	Flag	00	00000000
	5F	Dell P/N 1 st Character	4B	01001011
	60	Dell P/N 2 nd Character	43	01000011
	61	Dell P/N 3 rd Character	32	00110010
	62	Dell P/N 4 th Character	33	00110011
	63	Dell P/N 5 th Character	32	00110010
	64	LCD Supplier EEDID Revision #	00	00000000
	65	Manufacturer P/N	42	01000010
	66	Manufacturer P/N	31	00110001
	67	Manufacturer P/N	34	00110100
	68	Manufacturer P/N	31	00110001
	69	Manufacturer P/N	50	01010000
	6A	Manufacturer P/N	57	01010111
	6B	Manufacturer P/N (If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	31	00110001
Timing Descriptor #4	6C	Flag	00	00000000
	6D	Flag	00	00000000
	6E	Flag	00	00000000
	6F	Data Type Tag:	FE	11111110
	70	Flag	00	00000000
	71	SMBUS Value	20	00100000
	72	SMBUS Value	30	00110000
	73	SMBUS Value	40	01000000
	74	SMBUS Value	48	01001000
	75	SMBUS Value	70	01110000
	76	SMBUS Value	98	10011000
	77	SMBUS Value	B8	10111000
	78	SMBUS Value = max nits (Typically = FFh, for M07 inverter)	FF	11111111
	79	Number of LVDS receiver chips = '01' or '02'	02	00000010
	7A	BIST Enable: Yes = '01' No = '00'	01	00000001
	7B	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	0A	00001010
7C	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	
7D	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	
Check sum	7E	Extension flag (# of optional 128 EDID extension blocks to follow, Typ = 0)	00	00000000



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	7F	Checksum (The 1-byte sum of all 128 bytes in this EDID block shall = 0)	A5	10100101
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