

AU OPTRONICS CORPORATION B141PW01 V1

(V)

Final Specifications

Module	14.1" WXGA+ Color TFT-LCD
Model Name	B141PW01 V1

Customer	Date	Approved by	Date
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Note: This Specification is without notice.	s subject to change		eting Division / ics corporation

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Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2005/09/19	AII	First Edition for Customer		
0.2 2005/11/07	5	Power consumption	From 5.1W (typ) to 5.5W (typ)	
0.3 2006/03/10	5	Electrical Interface	2 channel LVDS	

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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.

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2. General Description

B141PW01 V1 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 V1 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 (IccFL=6.0mA) Note: IccFL 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		2 channel LVDS
Surface Treatment		Haze 25, hard coating 3H,AG
Support Color		262K colors (RGB 6-bit)
Temperature Range		
Operating	[°C]	0 to +50
Storage (Non-Operating)	[°C]	-20 to +60
RoHS Compliance		RoHS Compliance

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2.2 Optical Characteristics

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

Item	Unit	Conditi	ions	Min.	Тур.	Max.	Note
White Luminance Iccfl=6.0mA	[cd/m ²]	5 points ave	rage	190	220	-	1, 4, 5.
Viewing Angle	[degree]	Horizontal CR = 10	(Right) (Left)	-	45	-	8
	[degree]			-	45	-	
	[degree] [degree]	Vertical CR = 10	(Upper) (Lower)	-	20	-	
Lucia a a a Haifa mait.	[degree]	5 Dainte		-	35	-	
Luminance Uniformity		5 Points				1.2	1
Luminance Uniformity		13 Points				1.8	2
CR: Contrast Ratio				350	400	ı	6
Cross talk	%					1.4	7
Response Time	[msec]	Rising		-	15	20	8
	[msec]	Falling		-	10	15	
	[msec]	Rising + Fal	ling		25	35	
Color / Chromaticity		Red x		0.550	0.580	0.610	2,8
Coordinates (CIE 1931)		Red y		0.310	0.340	0.370	
(OIL 1001)		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	

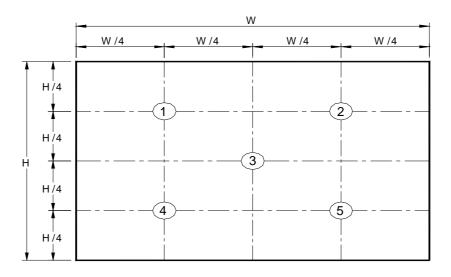
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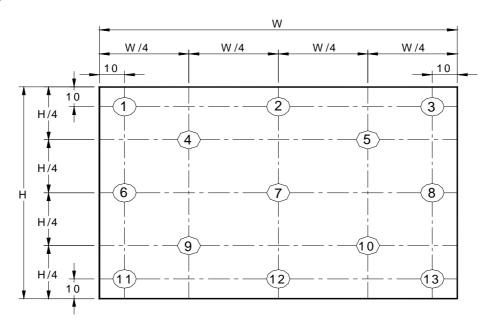
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Note 1: 5 points position (Display area: 303.48mm x 189.675mm)



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

2	Maximum Brightness of five points
δ _{W5} =	Minimum Brightness of five points
_ 2	Maximum Brightness of thirteen points
$\delta_{W13} =$	Minimum Brightness of thirteen points

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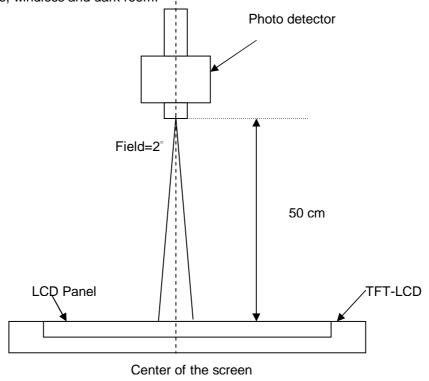


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Note 4: Measurement method

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.

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

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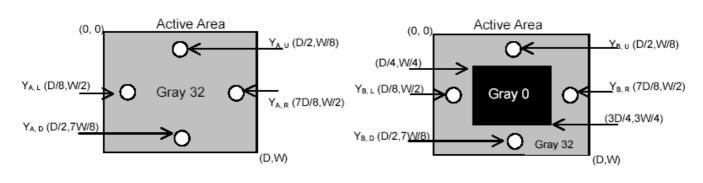
Note 7: Definition of Cross Talk (CT)

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

Where

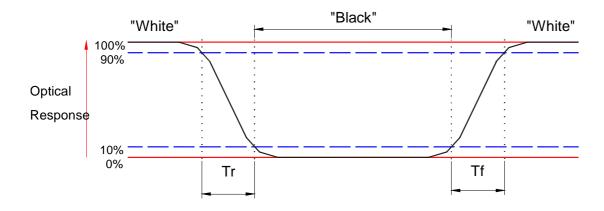
 Y_A = Luminance of measured location without gray level 0 pattern (cd/m₂)

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.



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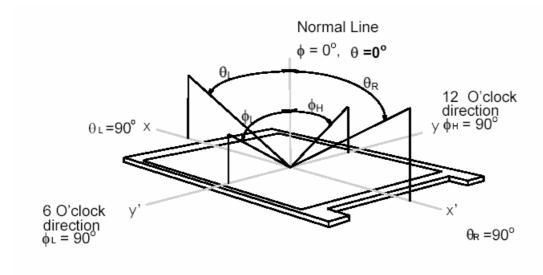


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Note 8. Definition of viewing angle

Viewing angle is the measurement of contrast ratio \geq 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.



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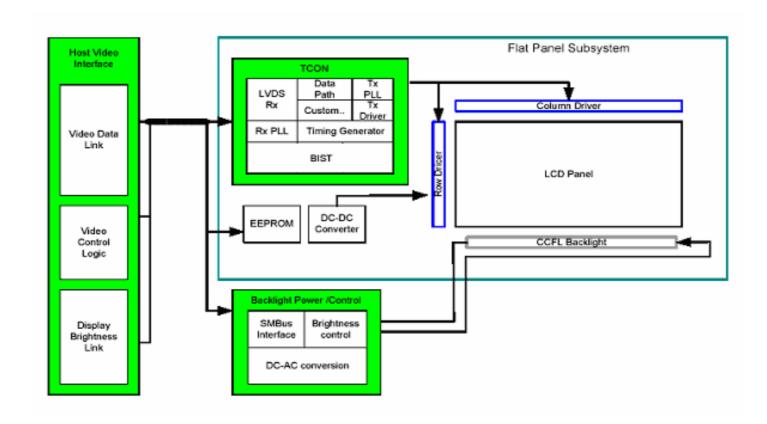


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3. Functional Block Diagram

The following diagram shows the functional block of the 14.1 inches wide Color TFT/LCD Module:



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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

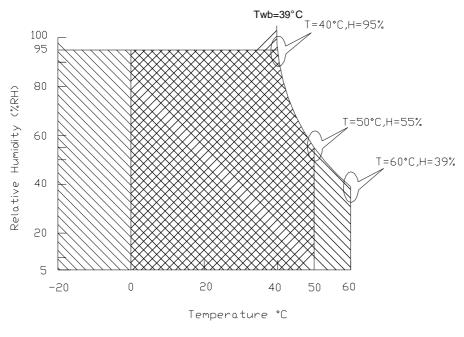
4.3 Absolute Ratings of Environment

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°℃)

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

+

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5. Electrical characteristics

5.1 TFT LCD Module

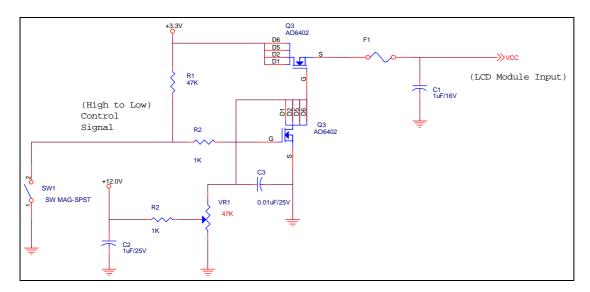
5.1.1 Power Specification

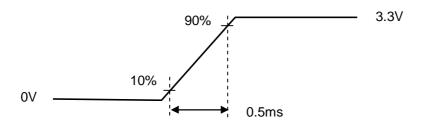
Input power specifications are as follows;

Symble	Parameter	Min	Тур	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
lRush	Inrush Current			TBD	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage			100	[mV] p-p	

Note 1: Maximum Measurement Condition: Black Patterm

Note 2: Measure Condition





Vin rising time

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5.1.2 Signal Electrical Characteristics

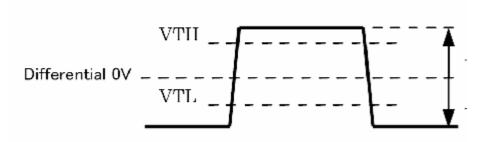
Input signals shall be low or High-impedance state when VDD is off.

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	Тур	Max	Units	Condition
White Luminance 5 points average	190	220	-	[cd/m ²]	(Ta=25°ℂ)
CCFL current(IccFL)	2.5	6.0	7	[mA] rms	(Ta=25°ℂ) Note 2
CCFL Frequency(FccFL)	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) (VCCFL)	-	650	-	[Volt] rms	(Ta=25°ℂ) Note 6
CCFL Power consumption (Pccfl)	-	4.2	-	[Watt]	(Ta=25°ℂ) Note 6

Note 1: Typ are AUO recommended Design Points.

*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.

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



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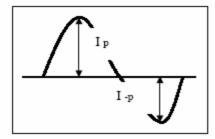
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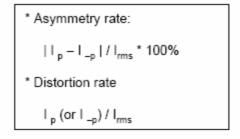
Note 6: Calculator value for reference (ICCFL×VCCFL=PCCFL)

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.





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6. Signal Characteristic

6.1 Pixel Format Image

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

		0			1			1	43	8	14	43	9
1st Line	R	G	В	R	G	В		R	G	В	R	G	В
									1				
		,					•						
					•		•		•				
		•					•						
		•			•		•						
		,					1						
		١			•		•		1			•	
900th Line	R	G	В	R	G	В		R	G	В	R	G	В

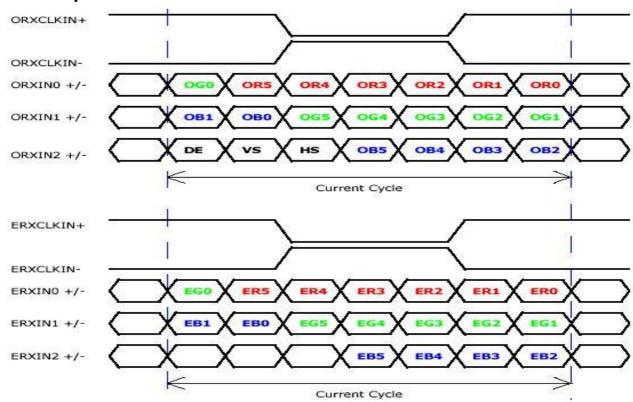
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6.2 The input data format



6.3 Signal Description/Pin Assignment

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

Signal Name	Description
V _{EDID}	+3.3V EDID Power
CLK _{EDID}	EDID Clock Input
DATA _{EDID}	EDID Data Input
ORXIN0-, ORXIN0+	Odd LVDS differential data input(ORed0-ORed5, OGreen0)
ORXIN1-, ORXIN1+	Odd LVDS differential data input(OGreen1-OGreen5, OBlue0-OBlue1)
ORXIN2-, ORXIN2+	Odd LVDS differential data input(OBlue2-OBlue5, Hsync, Vsync, DE)
ORXCLKIN-, ORXCLKIN+	Odd LVDS differential clock input
ERXIN0-, ERXIN0+	Even LVDS differential data input(ERed0-ERed5, EGreen0)
ERXIN1-, ERXIN1+	Even LVDS differential data input(EGreen1-EGreen5, EBlue0-EBlue1)
ERXIN2-, ERXIN2+	Even LVDS differential data input(EBlue2-EBlue5)
ERXCLKIN-, ERXCLKIN+	Even LVDS differential clock input
VDD	+3.3V Power Supply
GND	Ground

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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	

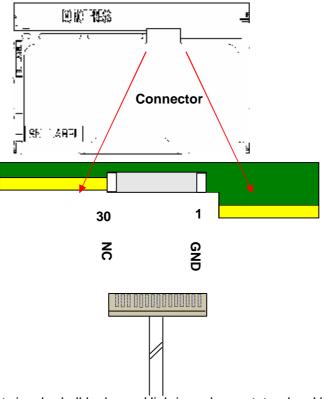
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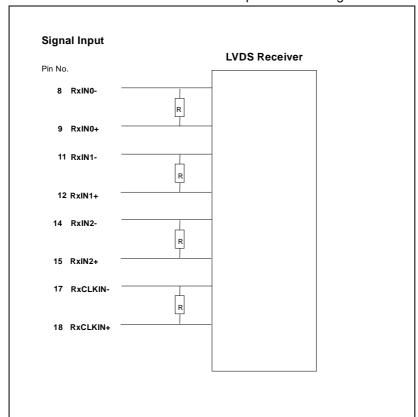
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Note1: Start from right side



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



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6.4 Interface Timing

6.4.1 Timing Characteristics

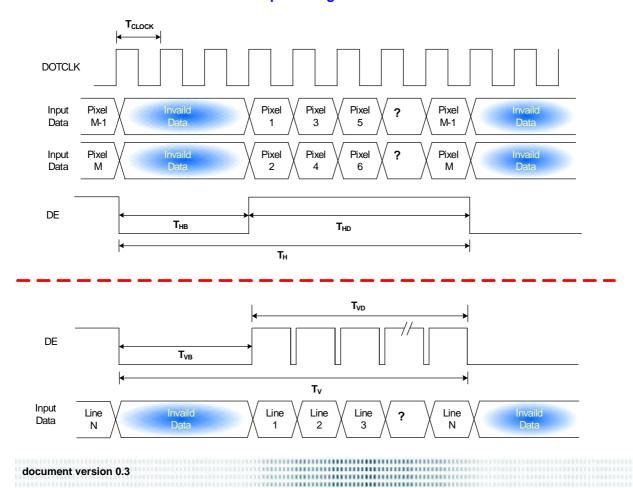
Basically, interface timings should match the 1440x900 /60Hz manufacturing guide line timing.

Parameter		Symbol	Min.	Тур.	Max.	Unit
Frame Rate		-	50	60	-	Hz
Clock fr	equency	1/ T _{Clock}	1	48.2	-	MHz
	Period	T _V	904	912	2048	
Vertical	Active	T _{VD}	900	900	900	T_Line
Section	Blanking	T _{VB}	4	12	-	
	Period	T _H	760	880	1024	
Horizontal	Active	T _{HD}	720-	720	720	T_{Clock}
Section	Blanking	T _{HB}	40	160	-	

Note: DE mode only

6.4.2 Timing diagram

Input Timing Definition



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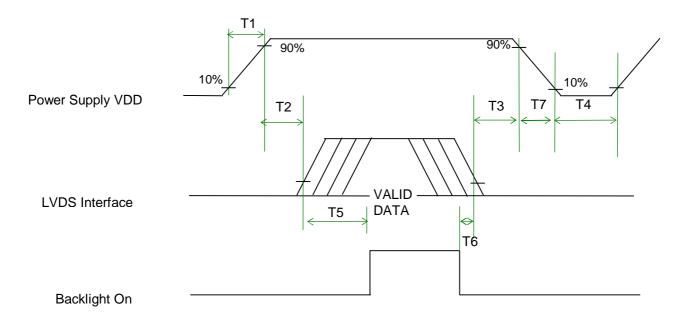


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6.5 Power ON/OFF Sequence

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	Min.	Тур.	Max.	Units
T1	0.5	-	10	(ms)
T2	0	-	50	(ms)
Т3	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:

I Test method: Non-Operation

I Acceleration: 2.16G

Frequency: 10 - 500Hz Random

I Sweep: 30 Minutes each Axis (X, Y, Z)

8.2 Shock Test Spec:

Test Spec:

I 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%

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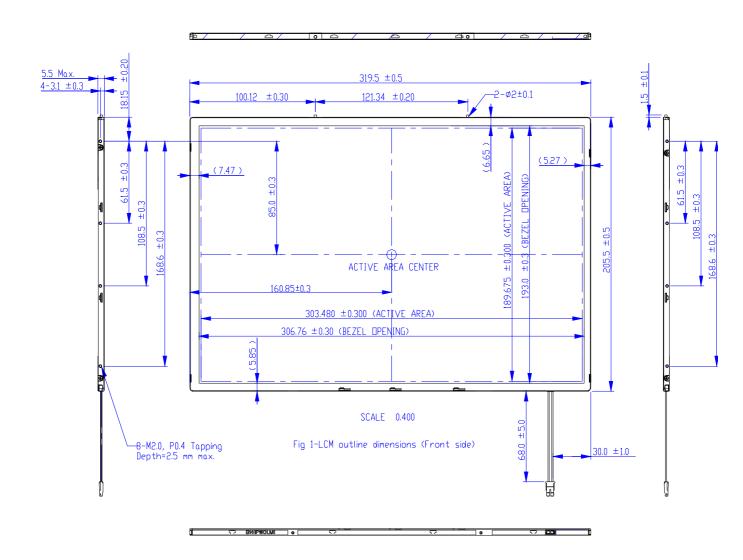


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10. Mechanical Characteristics

10.1 LCM Outline Dimension

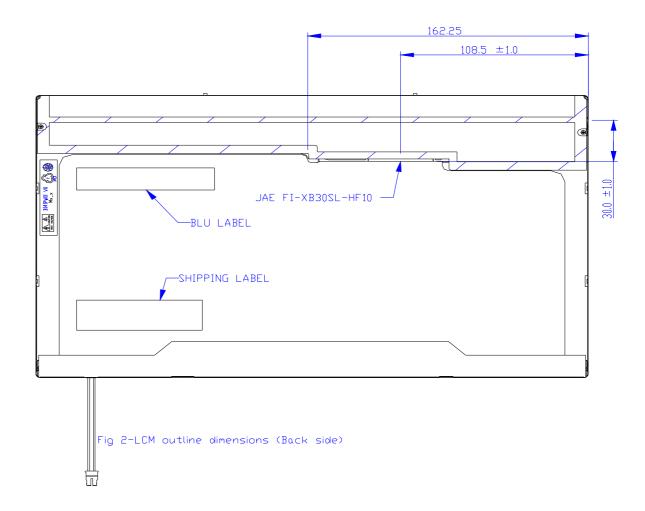


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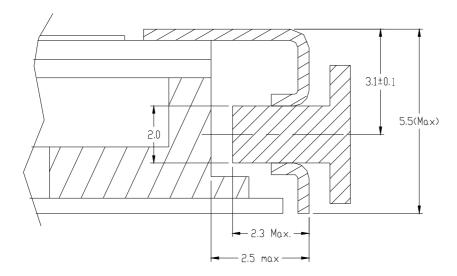
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10.2 Screw Hole Depth and Center Position

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



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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

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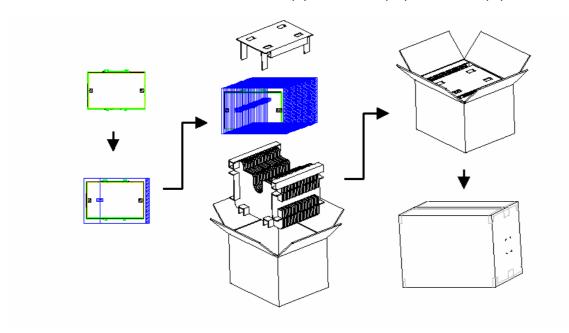


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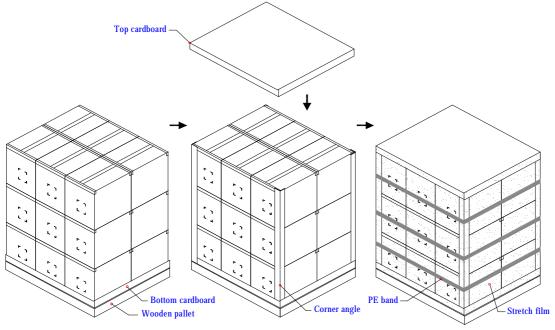
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11.2. Carton package

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

Address	FUNCTION	Value	Value	Value	Note
HEX		HEX	BIN	DEC	
00	Header	00	00000000	0	
01		FF	11111111	255	
02		FF	11111111	255	
03		FF	11111111	255	
04		FF	11111111	255	
05		FF	11111111	255	
06		FF	11111111	255	
07		00	00000000	0	
08	EISA Manuf. Code LSB	06	00000110	6	
09	Compressed ASCII	AF	10101111	175	
0A	Product Code	47	01000111	71	
0B	hex, LSB first	11	00010001	17	
0C	32-bit ser #	00	00000000	0	
0D		00	00000000	0	
0E		00	00000000	0	
0F		00	00000000	0	
10	Week of manufacture	01	00000001	1	
11	Year of manufacture	0F	00001111	15	
12	EDID Structure Ver.	01	00000001	1	
13	EDID revision #	03	00000011	3	
14	Video input def. (digital I/P, non-TMDS, CRGB)	80	10000000	128	
15	Max H image size (rounded to cm)	1E	00011110	30	
16	Max V image size (rounded to cm)	13	00010011	19	
17	Display Gamma (=(gamma*100)-100)	78	01111000	120	
	Feature support (no DPMS, Active OFF, RGB, tmg				
18	Blk#1)	0A	00001010	10	
19	Red/green low bits (Lower 2:2:2:2 bits)	87	10000111	135	
1A	Blue/white low bits (Lower 2:2:2:2 bits)	C5	11000101	197	
1B	Red x (Upper 8 bits)	94	10010100	148	
1C	Red y/ highER 8 bits	57	01010111	87	
1D	Green x	4F	01001111	79	
1E	Green y	8C	10001100	140	

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1F	Blue x	27	00100111	39	
20	Blue y	25	00100101	37	
21	White x	50	01010000	80	
22	White y	54	01010100	84	
23	Established timing 1	00	00000000	0	
24	Established timing 2	00	00000000	0	
25	Established timing 3	00	00000000	0	
26	Standard timing #1	01	00000001	1	
27		01	00000001	1	
28	Standard timing #2	01	00000001	1	
29		01	00000001	1	
2A	Standard timing #3	01	00000001	1	
2B		01	00000001	1	
2C	Standard timing #4	01	00000001	1	
2D		01	00000001	1	
2E	Standard timing #5	01	00000001	1	
2F		01	00000001	1	
30	Standard timing #6	01	00000001	1	
31		01	00000001	1	
32	Standard timing #7	01	00000001	1	
33		01	00000001	1	
34	Standard timing #8	01	00000001	1	
35		01	00000001	1	
36	Pixel Clock/10000 LSB	38	00111000	56	
37	Pixel Clock/10000 USB	22	00100010	34	
38	Horz active Lower 8bits	A0	10100000	160	
39	Horz blanking Lower 8bits	A0	10100000	160	
3A	HorzAct:HorzBlnk Upper 4:4 bits	50	01010000	80	
3B	Vertical Active Lower 8bits	84	10000100	132	
3C	Vertical Blanking Lower 8bits	0C	00001100	12	
3D	Vert Act : Vertical Blanking (upper 4:4 bit)	30	00110000	48	
3E	HorzSync. Offset	30	00110000	48	
3F	HorzSync.Width	20	00100000	32	
40	VertSync.Offset : VertSync.Width	36	00110110	54	
41	Horz‖ Sync Offset/Width Upper 2bits	00	00000000	0	

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42	Horizontal Image Size Lower 8bits	30	00110000	48	
43	Vertical Image Size Lower 8bits	BE	10111110	190	
44	Horizontal & Vertical Image Size (upper 4:4 bits)	10	00010000	16	
45	Horizontal Border (zero for internal LCD)	00	00000000	0	
46	Vertical Border (zero for internal LCD)	00	00000000	0	
47	Signal (non-intr, norm, no stero, sep sync, neg pol)	18	00011000	24	
48	Detailed timing/monitor	00	00000000	0	
49	descriptor #2	00	00000000	0	
4A		00	00000000	0	
4B		0F	00001111	15	
4C		00	00000000	0	
4D		00	00000000	0	
4E		00	00000000	0	
4F		00	00000000	0	
50		00	00000000	0	
51		00	00000000	0	
52		00	00000000	0	
53		00	00000000	0	
54		00	00000000	0	
55		00	00000000	0	
56		00	00000000	0	
57		00	00000000	0	
58		00	00000000	0	
59		20	00100000	32	
5A	Detailed timing/monitor	00	00000000	0	
5B	descriptor #3	00	00000000	0	
5C		00	00000000	0	
5D		FE	11111110	254	
5E		00	00000000	0	
5F	Manufacture	41	01000001	65	A
60	Manufacture	55	01010101	85	U
61	Manufacture	4F	01001111	79	0
62		0A	00001010	10	
63		20	00100000	32	
64		20	00100000	32	

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65		20	00100000	32	
66		20	00100000	32	
67		20	00100000	32	
68		20	00100000	32	
69		20	00100000	32	
6A		20	00100000	32	
6B		20	00100000	32	
6C	Detailed timing/monitor	00	00000000	0	
6D	descriptor #4	00	00000000	0	
6E		00	00000000	0	
6F		FE	11111110	254	
70		00	00000000	0	
71	Manufacture P/N	42	01000010	66	В
72	Manufacture P/N	31	00110001	49	1
73	Manufacture P/N	34	00110100	52	4
74	Manufacture P/N	31	00110001	49	1
75	Manufacture P/N	50	01010000	80	Р
76	Manufacture P/N	57	01010111	87	W
77	Manufacture P/N	30	00110000	48	0
78	Manufacture P/N	31	00110001	49	1
79	Manufacture P/N	20	00100000	32	
7A	Manufacture P/N	56	01010110	86	V
7B	Manufacture P/N	31	00110001	49	1
7C		20	00100000	32	
7D		0A	00001010	10	
7E	Extension Flag	00	00000000	0	
7F	Checksum	6F	01101111	111	

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