



Product Specification

AU OPTRONICS CORPORATION

(V) Preliminary Specifications

() Final Specifications

Module	13.3" WXGA Color TFT-LCD
Model Name	B133EW03 V1
Note ()	<i>LED Backlight without driving circuit design</i>

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Note: This Specification is subject to change without notice.		NBBU Marketing Division / AU Optronics corporation	



Product Specification

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 Signal Description/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
12. Shipping and Package	30
12.1 Shipping Label Format	30
12.2 Carton package	31
11.3 Shipping package of palletizing sequence.....	32
13. Appendix: EDID description	33



Product Specification

AU OPTRONICS CORPORATION

Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2008/01/28	All	First Edition for Customer		
0.2 2008/02/04	33~	EDID Change (B133EW03 V0)	EDID Change (B133EW03 V1)	



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.
- 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) 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) **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.**



Product Specification

AU OPTRONICS CORPORATION

2. General Description

B133EW03 V1 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 WXGA (1280(H) x 800(V)) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B133EW03 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]	337.8 (13.3W")			
Active Area	[mm]	286.08 X 178.8			
Pixels H x V		1280x3(RGB) x 800			
Pixel Pitch	[mm]	0.2235X0.2235			
Pixel Format		R.G.B. Vertical Stripe			
Display Mode		Normally White			
White Luminance ($I_{LED}=16mA$) (Note: I_{LED} is LED current)	[cd/m ²]	300 typ. (160 points average) 250 min. (160 points average)			
Luminance Uniformity		1.25 max. (5 points)			
Contrast Ratio		500 typ ,			
Response Time	[ms]	20 typ / 25 Max			
Nominal Input Voltage VDD	[Volt]	+3.3 typ.			
Power Consumption	[Watt]	4.2 typ. (Include Logic and Blu power)			
Weight	[Grams]	219 max.			
Physical Size	[mm]		L	W	T
		Max	-	-	3.045
		Typ	297.15	203.15	2.86
		Min	-	-	-
Electrical Interface		1 channel LVDS			
Surface Treatment		Glare, Hardness 3H, Reflection ~0.5%			
Support Color		262K colors (RGB 6-bit)			



Product Specification

AU OPTRONICS CORPORATION

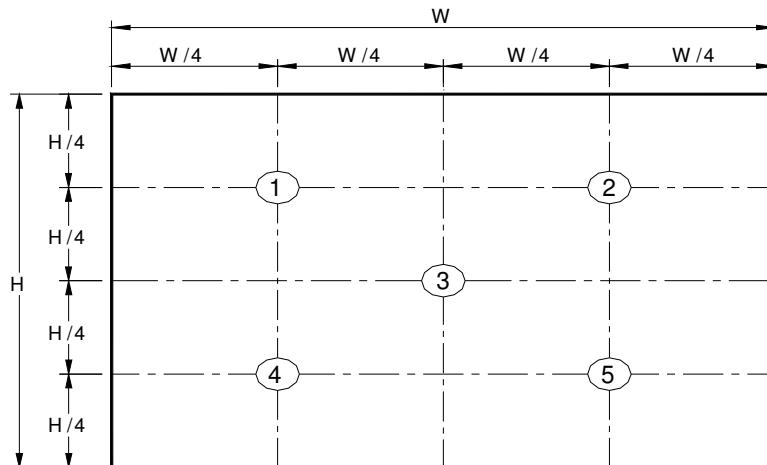
Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +50 -25 to +65
RoHS Compliance		RoHS Compliance

2.2 Optical Characteristics

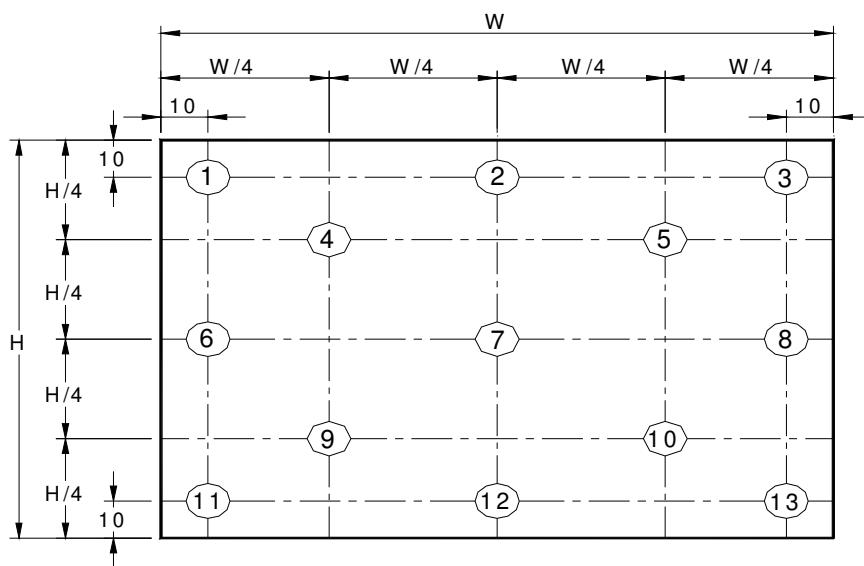
The optical characteristics are measured under stable conditions at 25°C (Room Temperature) :

Item	Unit	Conditions	Min.	Typ.	Max.	Note
White Luminance (I _{LED} =16mA)	[cd/m ²]	5 points average	250	300	-	1, 4, 5.
Viewing Angle	[degree] [degree]	Horizontal (Right) CR = 10 (Left)	-	75	-	4, 9
	[degree] [degree]	Vertical (Upper) CR = 10 (Lower)	-	60	-	
Luminance Uniformity		5 Points	-	-	1.25	1, 3, 4
Luminance Uniformity		13 Points	-	-	1.50	2, 3, 4
CR: Contrast Ratio		DCR:Off	300	500	-	4, 6
Cross talk	%				4	4, 7
Response Time	[msec]	Rising	-	-	-	4, 8
	[msec]	Falling	-	-	-	
	[msec]	Rising + Falling	-	20	25	
Chromaticity of color Coordinates (CIE 1931)		Red x	0.575	0.600	0.625	4, 9
		Red y	0.325	0.345	0.365	
		Green x	0.300	0.320	0.340	
		Green y	0.530	0.555	0.580	
		Blue x	0.130	0.150	0.170	
		Blue y	0.100	0.120	0.130	
		White x	0.300	0.313	0.326	
		White y	0.316	0.329	0.342	

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

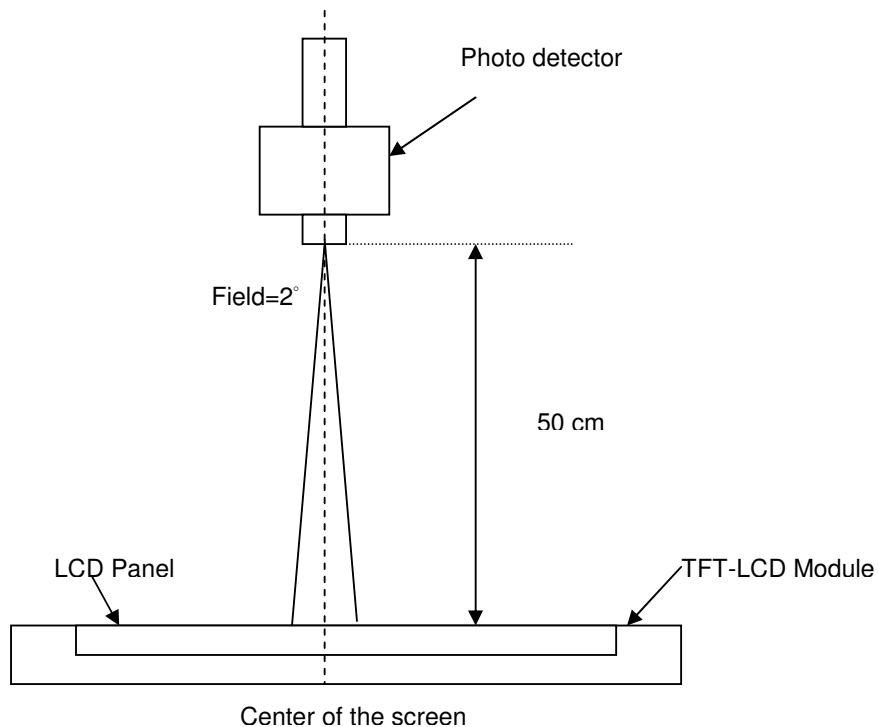
$$\delta_{W5} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

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

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.



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.

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

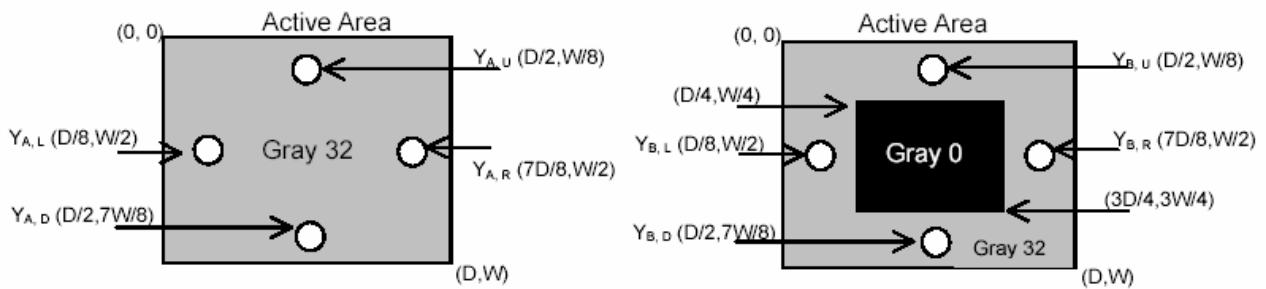
Note 7 : Definition of Cross Talk (CT)

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

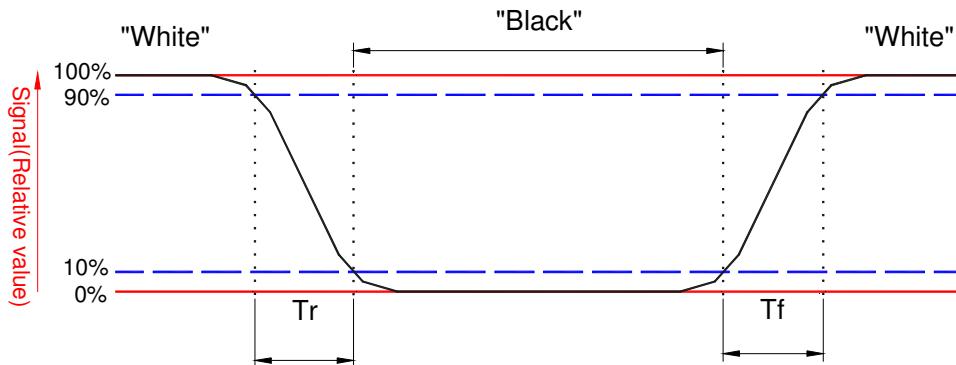
Where

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)

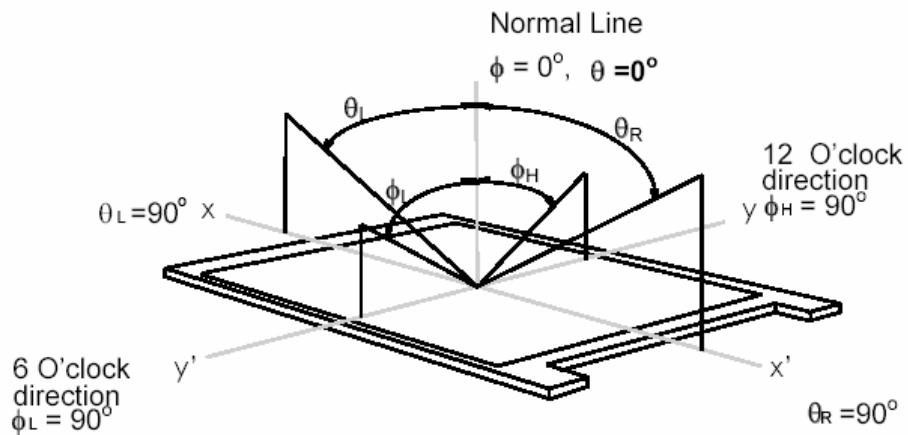
**Note 8:** Definition of response time:

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.



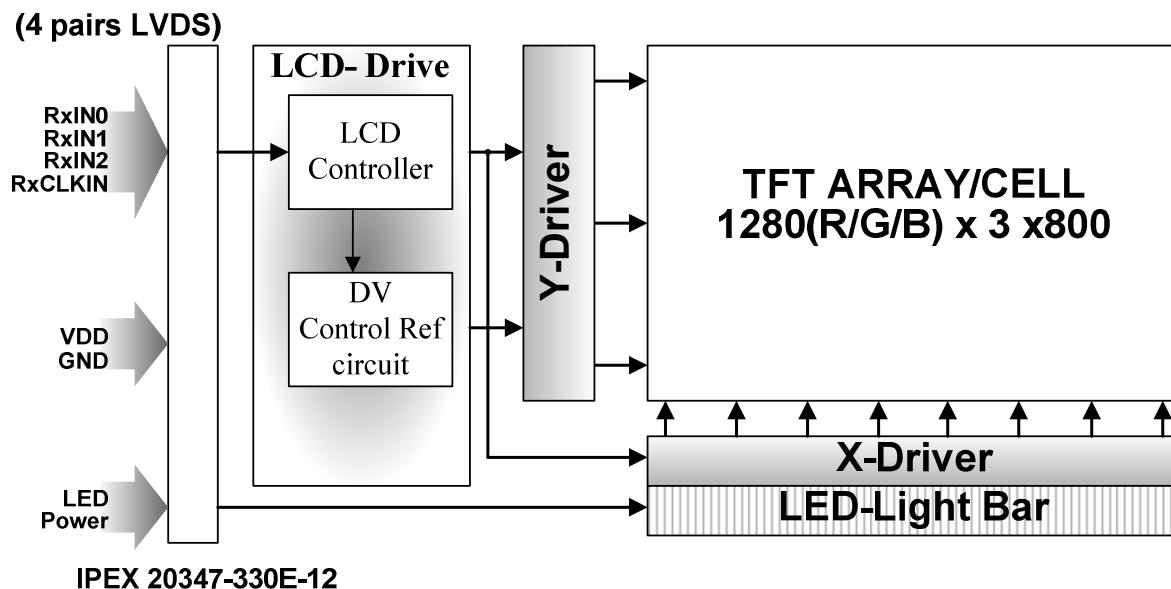
Note 9. Definition of viewing angle

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 13.3 inches wide Color TFT/LCD 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	Vin	-0.3	+4.0	[Volt]	Note 1,2

4.2 Absolute Ratings of Environment

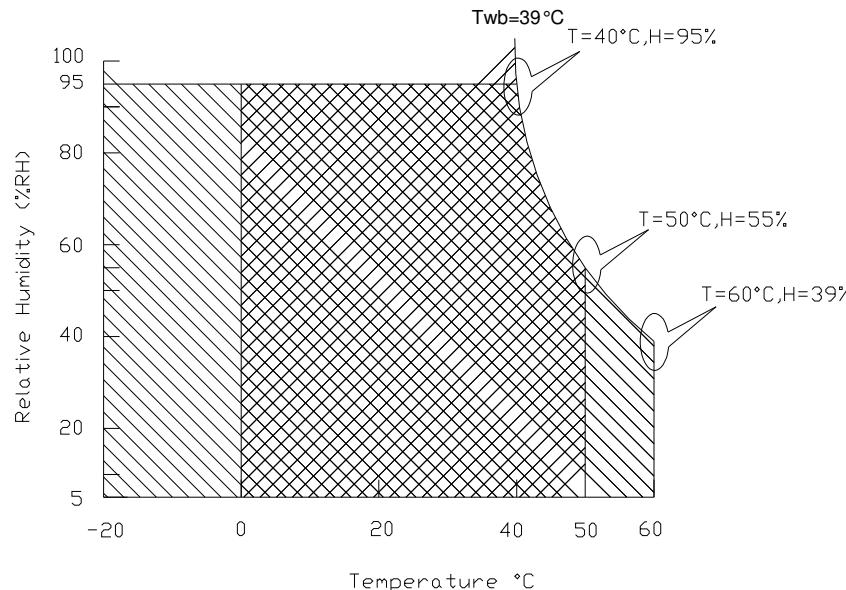
Item	Symbol	Min	Max	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	Note 4
Operation Humidity	HOP	10	90	[%RH]	Note 4
Storage Temperature	TST	-25	+65	[°C]	Note 4
Storage Humidity	HST	10	90	[%RH]	Note 4

Note 1: At Ta (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

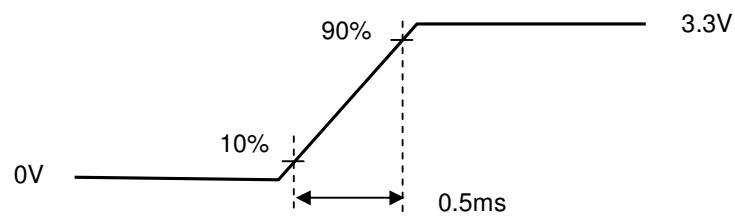
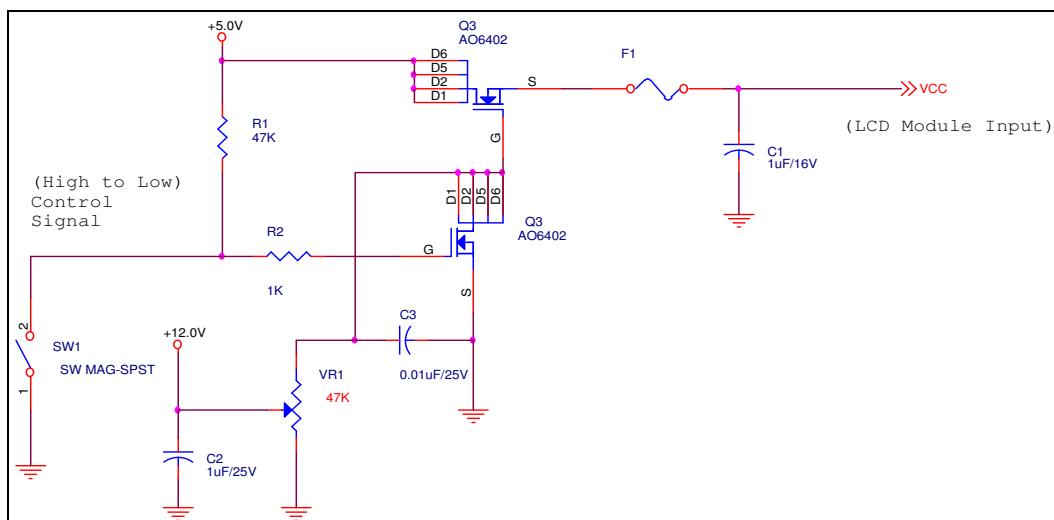
Input power specifications are as follows;

Symble	Parameter	Min	Typ	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	-	-	0.90	[Watt]	Note 1/2
IDD	IDD Current	-	220	250	[mA]	Note 1/2
IRush	Inrush Current	-	-	1500	[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

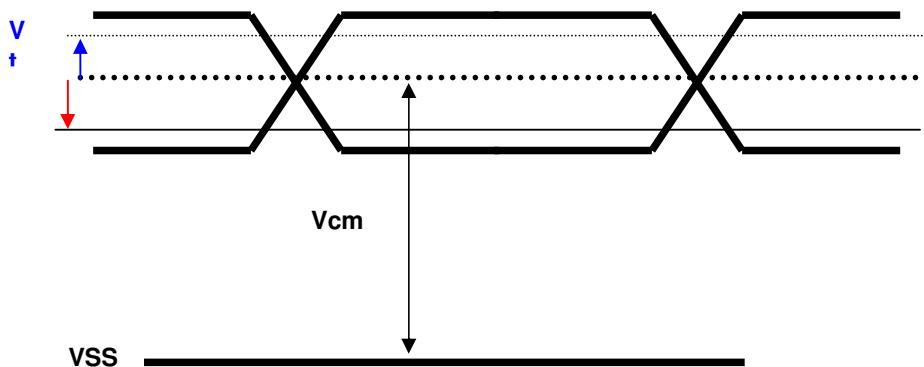
Input signals shall be low or High-impedance state when VDD is off.

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 ($V_{cm}=+1.2V$)	-	100	[mV]
Vtl	Differential Input Low Threshold ($V_{cm}=+1.2V$)	-100	-	[mV]
Vcm	Differential Input Common Mode Voltage	1.125	1.375	[V]

Note: LVDS Signal Waveform





Product Specification

AU OPTRONICS CORPORATION

5.2 Backlight Unit

LED Parameter guideline for LED driving selection

Parameter	Symbol	Min	Typ	Max	Units	Condition
LED Forward Voltage	V_F	3.0	3.2	3.3	[Volt]	(Ta=25°C)
LED Forward Current	I_F		16	30	[mA]	(Ta=25°C)
LED Power consumption	P_{LED}		2.76		[Watt]	(Ta=25°C) Note 1
LED Life-Time	N/A	10,000	-	-	Hour	(Ta=25°C) $I_F=16\text{ mA}$ Note 2

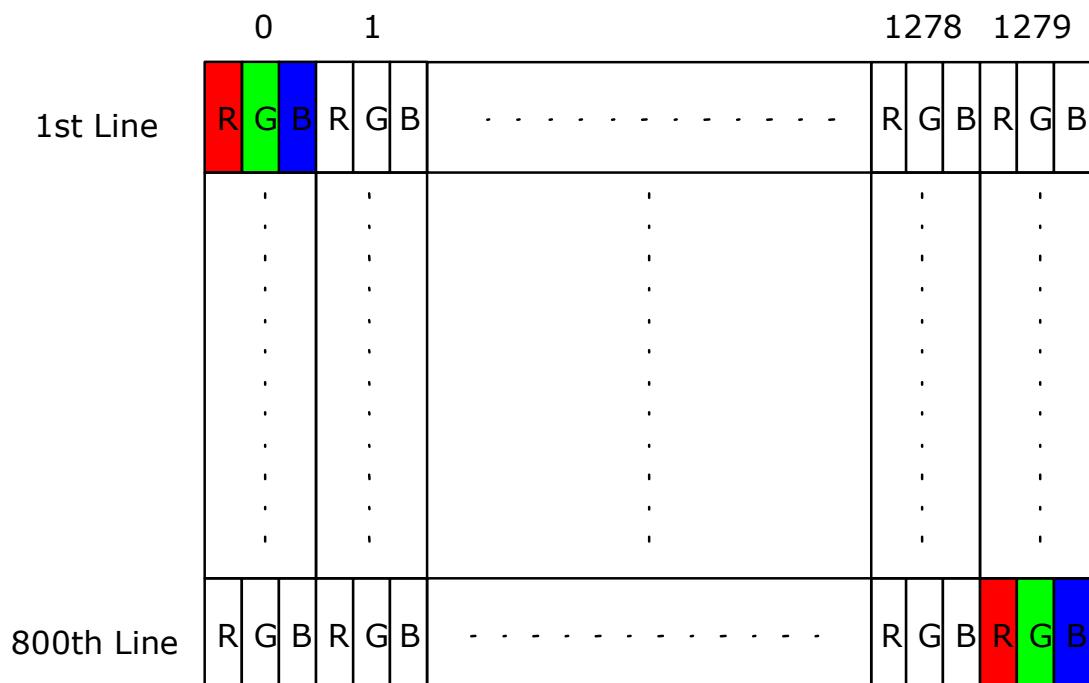
Note 1: Calculator value for reference $P_{LED} = I_F \times V_F \times \text{LED(Qty)}$

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

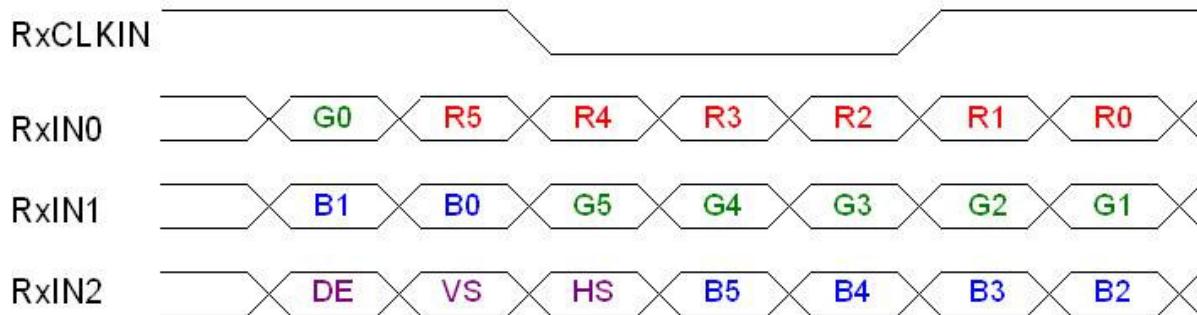
6. Signal Characteristic

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.
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.
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.
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.



Product Specification

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6.3 Integration Interface and Pin Assignment

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

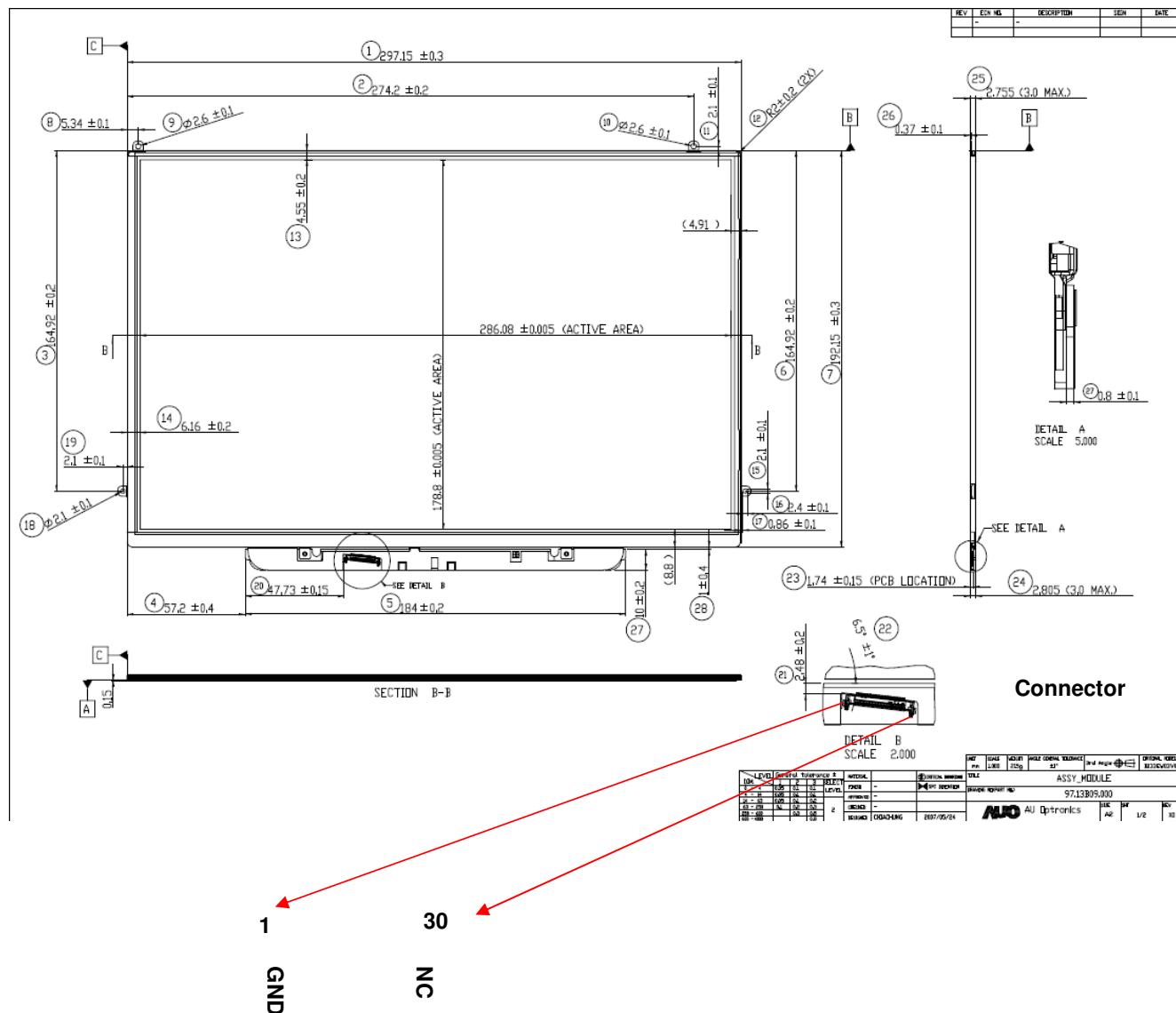
Pin	Signal	Description
1	GND	Ground
2	VDD	Power Supply (+3.3V)
3	VDD	Power Supply (+3.3V)
4	VDDedid	DCC Power (+3.3V)
5	AG_IN	Reserve for AUO aging test
6	CLKdeid	DDC clock
7	DATAedid	DDC Data
8	ORXIN0N	Differential clock input
9	ORXIN0P	Differential clock input
10	GND	Ground
11	ORXIN1N	Differential clock input
12	ORXIN1P	Differential clock input
13	GND	Ground
14	ORXIN2N	Differential clock input
15	ORXIN2P	Differential clock input
16	GND	Ground
17	ORXIN3N	Differential clock input
18	ORXIN3P	Differential clock input
19	GND	Ground
20	NC	No Connection
21	VOUT	LED Anode (Positive)
22	VOUT	LED Anode (Positive)
23	NC	No Connection
24	FB1	LED Cathode (Negative)
25	FB2	LED Cathode (Negative)
26	FB3	LED Cathode (Negative)
27	FB4	LED Cathode (Negative)
28	FB5	LED Cathode (Negative)
29	FB6	LED Cathode (Negative)
30	NC	No Connection



Product Specification

AU Optronics Corporation

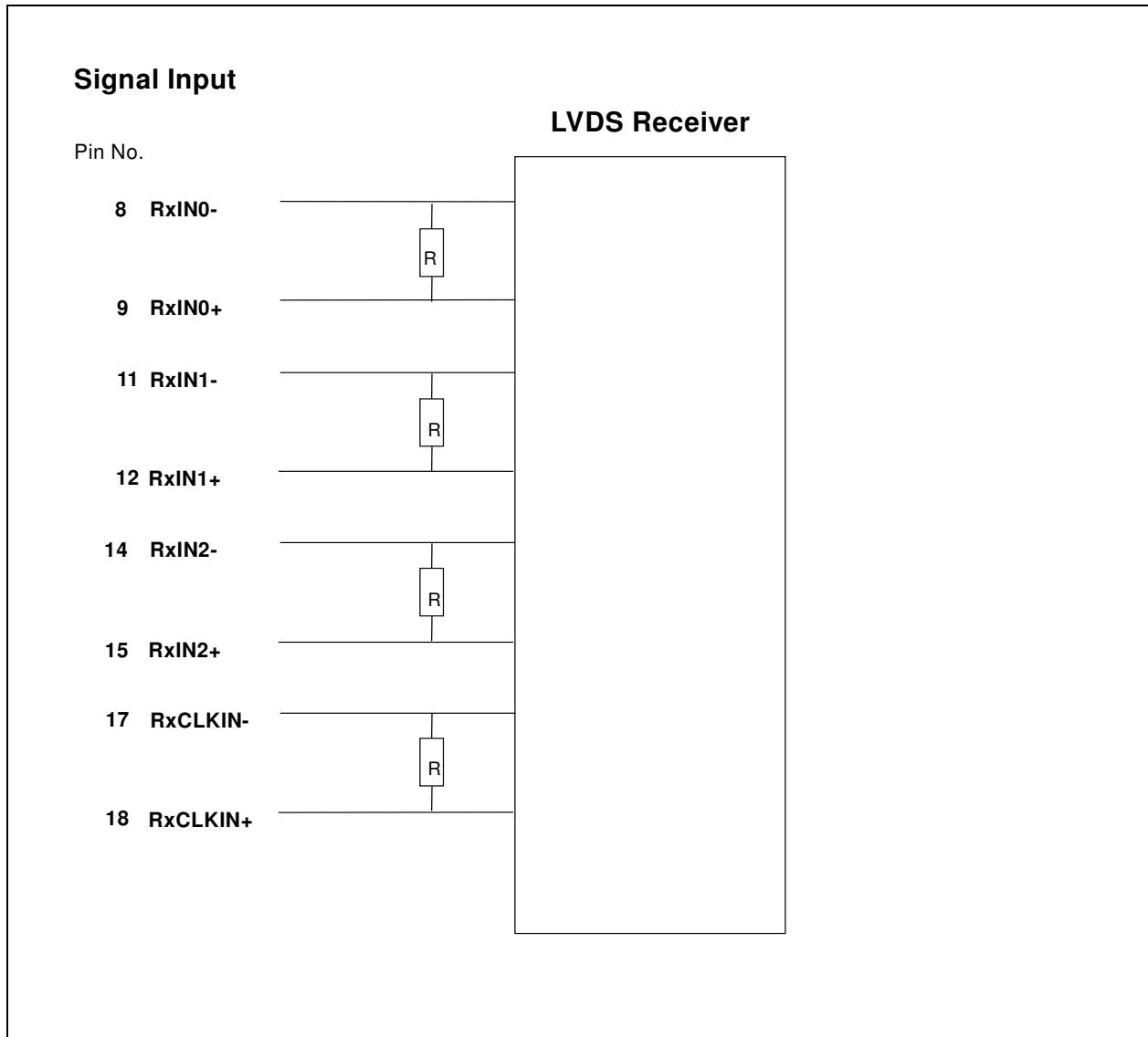
Note1: Start from right side



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

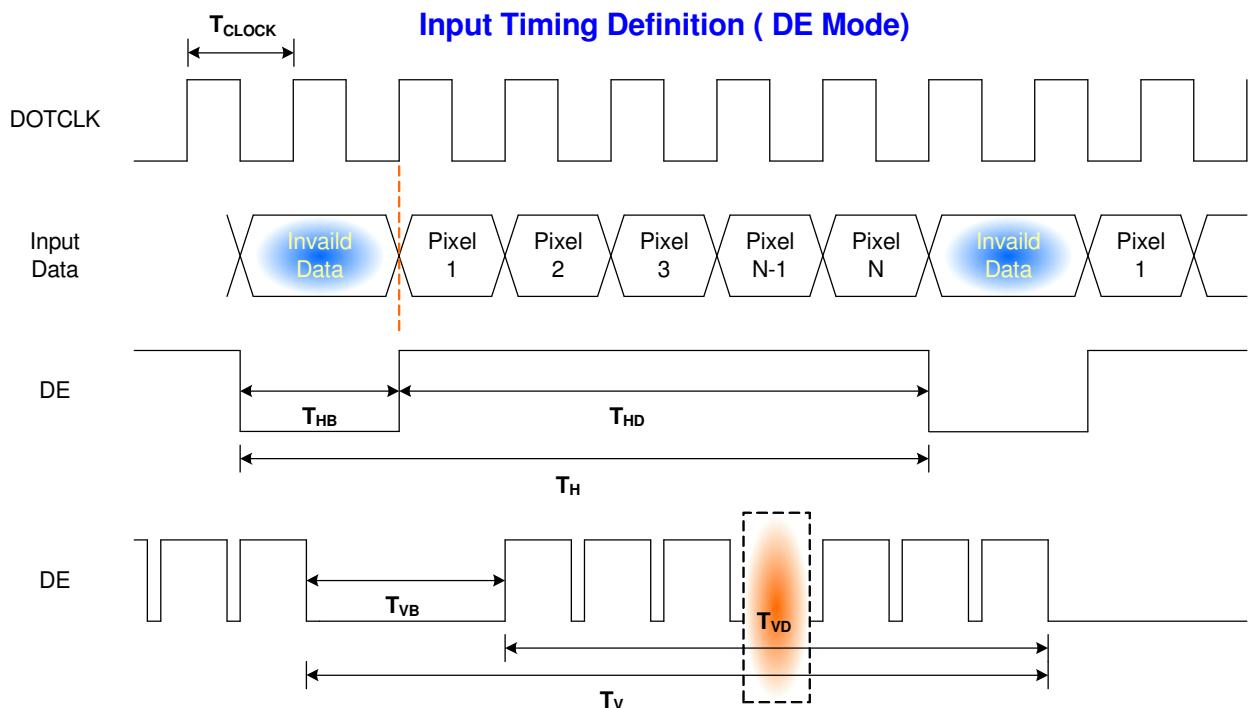
6.4.1 Timing Characteristics

Basically, interface timings should match the 1280x800 /60Hz manufacturing guide line timing.

Signal	Parameter	Symbol	Min	Typ	Max	Unit	Note
D _{CLK}	Clock Period	T _C		14.06		ns	1
	Clock Frequency	f _C		71.1	72	MHz	1/T _C
DE							2
	Horizontal Period	T _H	1440	1440		T _C	
	Horizontal Blank Period	T _{hb}	160	160		T _C	f _V =59.99 Hz, 3
	Vertical Period	T _V	808	823		T _H	
	Vertical Blank Period	T _{vbb}	8	23		T _H	
H _{sync}	H _{sync} Back Porch	H _{bp}		80		T _C	
	H _{sync} Pulse Width	T _{wh}		32		T _C	
	H _{sync} Front Porch	H _{fp}		48		T _C	
	Horizontal Active Period	T _{hd}	1280	1280	1280	T _C	Display Period
V _{sync}	V _{sync} Back Porch	V _{bp}		14		T _H	
	V _{sync} Pulse Width	T _{ww}		6		T _H	
	V _{sync} Front Porch	V _{fp}		3		T _H	
	Vertical Active Period	T _{vd}	800	800	800	T _H	Display Period

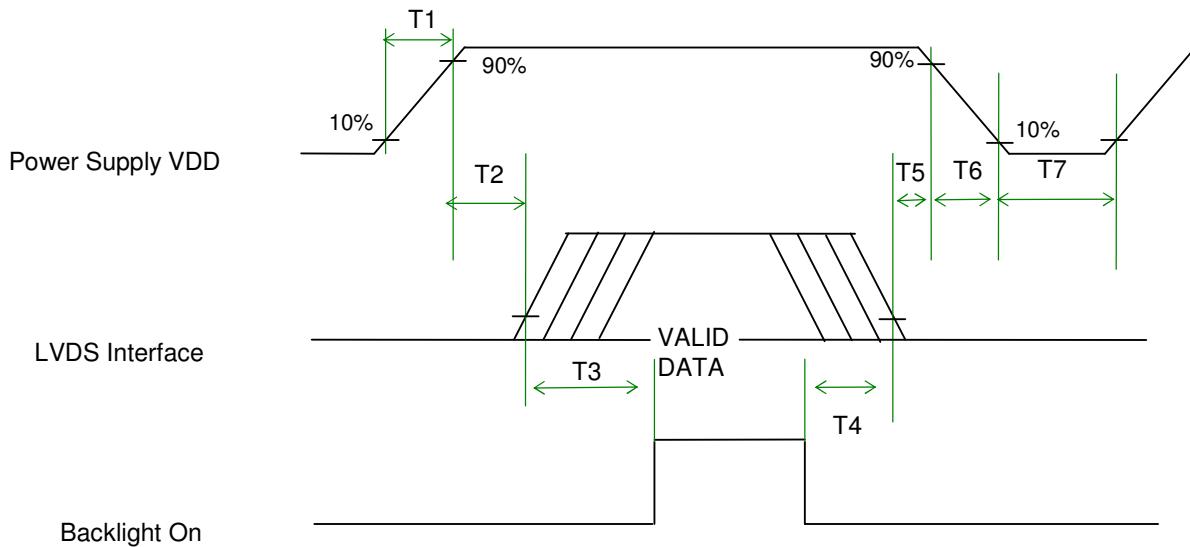
Note : DE mode only

6.4.2 Timing diagram



6.5 Power ON/OFF Sequence

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



Power Sequence Timing

Parameter	Value			Units
	Min.	Typ.	Max.	
T1	0.15	-	10	(ms)
T2	0	20	50	(ms)
T3	200	250	-	(ms)
T4	200	250	-	(ms)
T5	0	20	50	(ms)
T6	-	-	5	(ms)
T7	500	-	-	(ms)

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 20347-330E-12
Mating Housing/Part Number	IPEX 20345-030T-31



Product Specification

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8. LED Specification

8.1 General Information

LED Manufacturer	Nichia
LED Manufacture Assembly P/N	NNSW108-S1
Number of LEDs	54
LED bin	A6265, a6266, a6267, a6268, bj255, bj256, bj257, bj258
LED ranks	1800 mcd ~ 2400 mcd
LED brightness bin	50 mcd per bin
LED Vf	0.2V per bin
LED Forward Voltage Range for All 6 LED Series Lines	Max: 30.6 V

8.2 LED Connection

String	LED 1	LED 2	LED 3	LED 4	LED 5	LED 6	LED 7	LED 8	LED 9
1	1	7	13	19	25	31	37	43	49
2	2	8	14	20	26	32	38	44	50
3	3	9	15	21	27	33	39	45	51
4	4	10	16	22	28	34	40	46	52
5	5	11	17	23	29	35	41	47	53
6	6	12	18	24	30	36	42	48	54



9. Vibration and Shock Test

9.1 Vibration Test

Test Spec:

- Test method: Non-Operation
- Acceleration: 3.0 G
- Frequency: 5 - 150Hz Random
- Sweep: 30 Minutes each Axis (X, Y, Z)

9.2 Shock Test Spec:

Test Spec:

- Test method: Non-Operation
- Acceleration: 200 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= 50°C, 90%RH, 240h	
High Temperature Operation	Ta= 50°C, RH, 300h	
Low Temperature Operation	Ta= 0°C, RH, 300h	
High Temperature Storage	Ta= 65°C, RH, 500h	
Low Temperature Storage	Ta= -25°C, RH, 500h	
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%

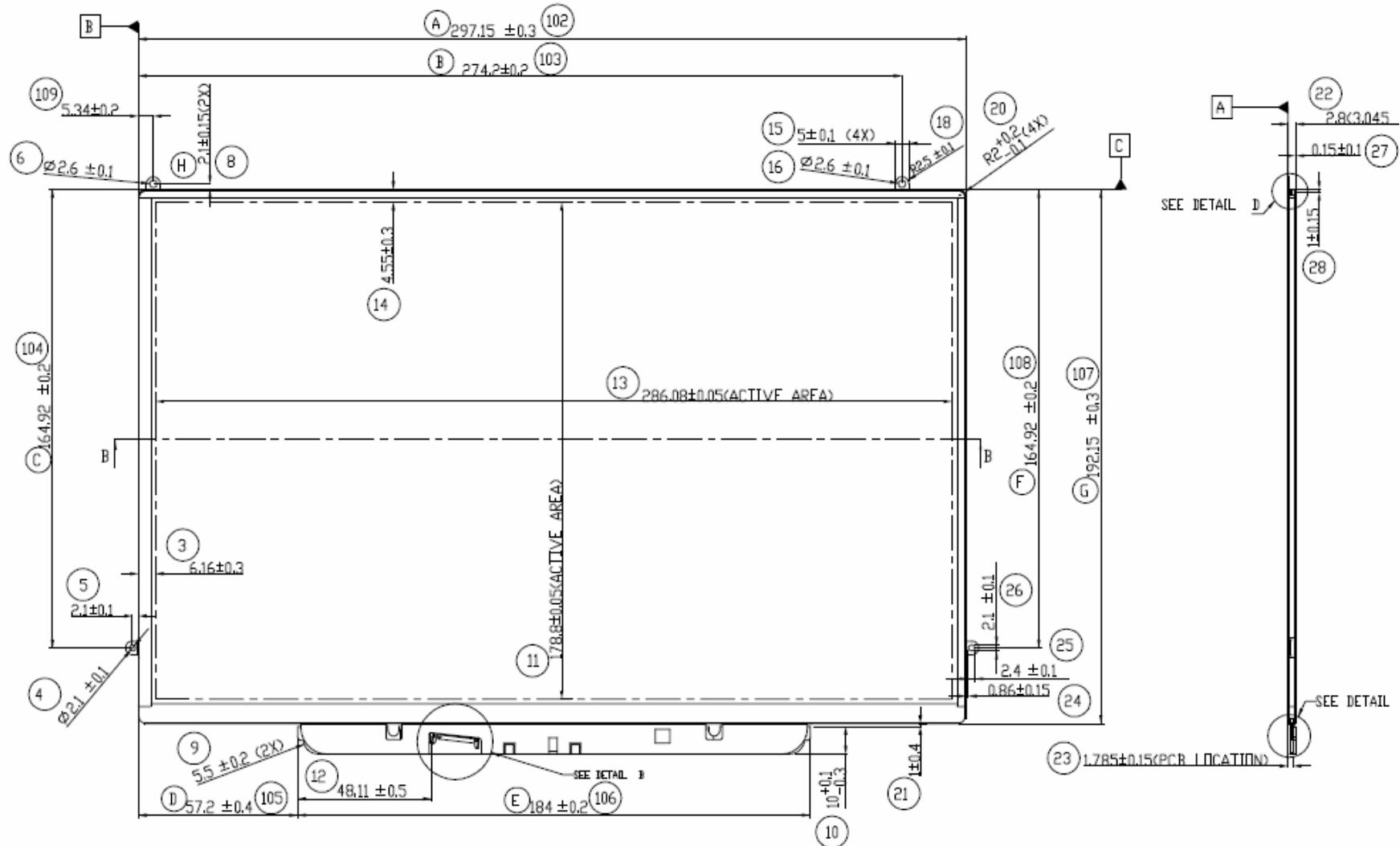


Product Specification

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11. Mechanical Characteristics

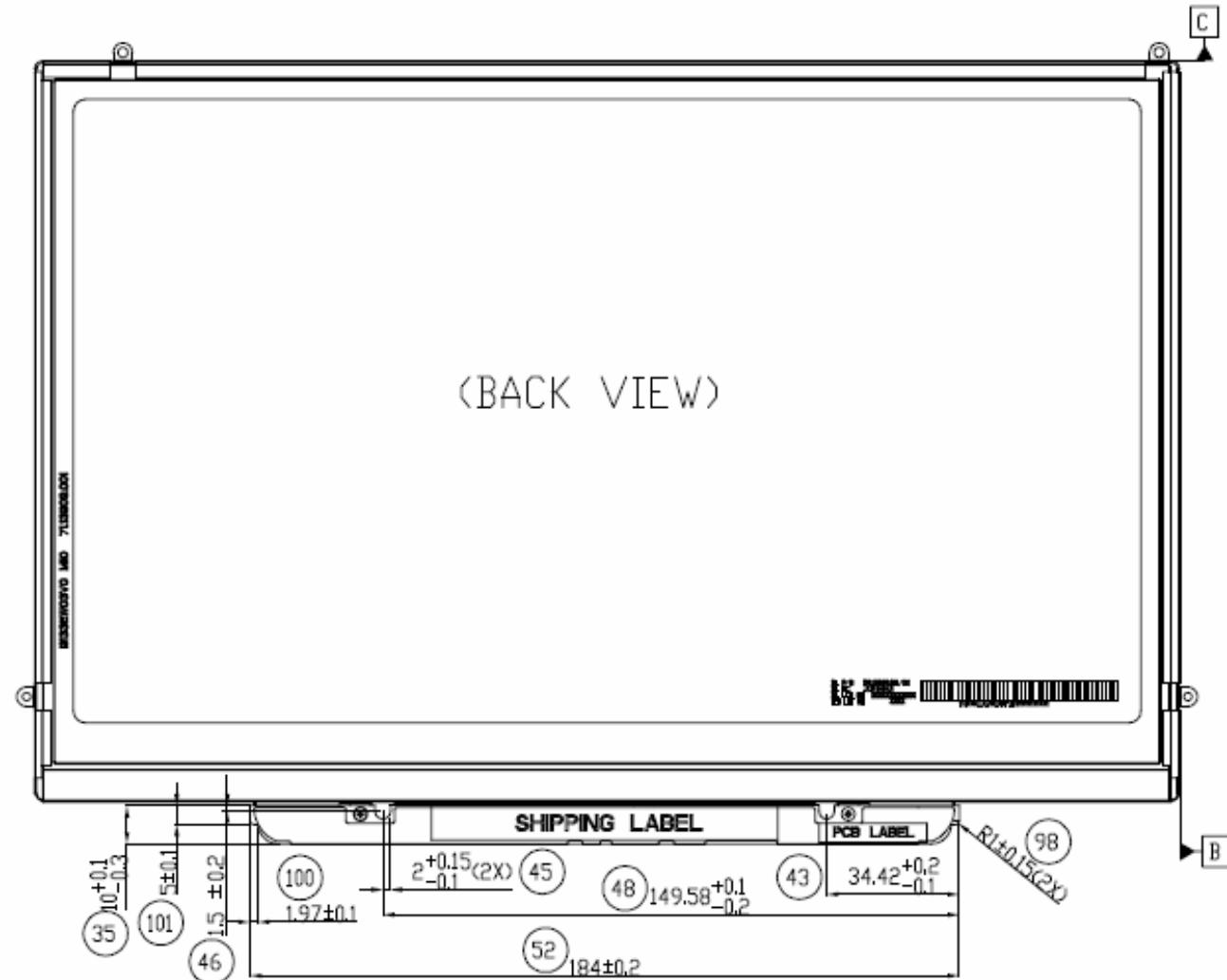
11.1 LCM Outline Dimension





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12. Shipping and Package

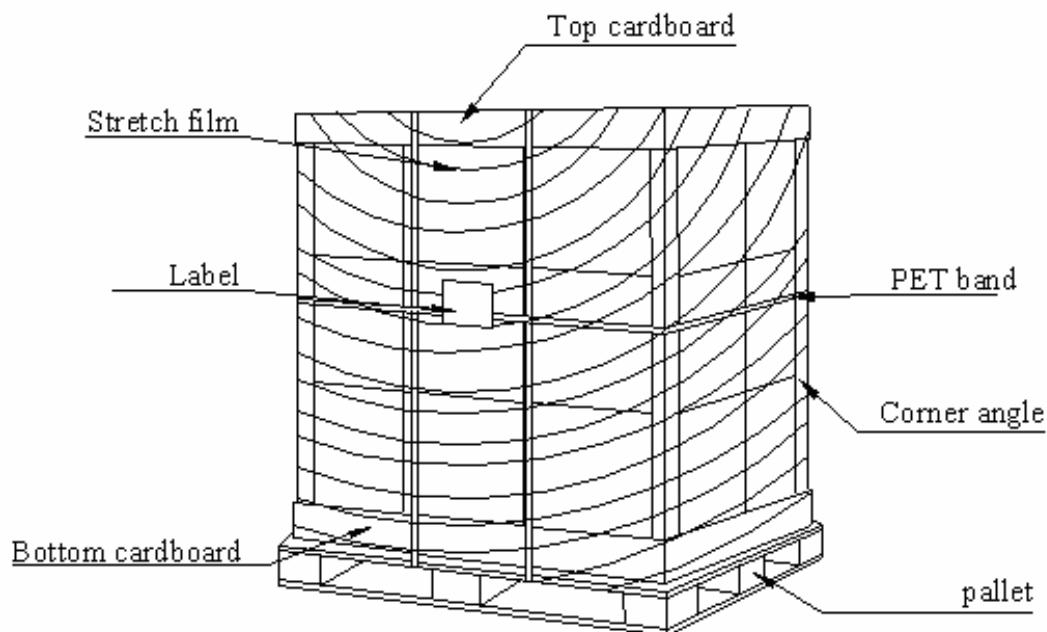
12.1 Shipping Label Format



12.2 Carton package

The outside dimension of carton is 435 (L)mm x 377 (W)mm x 335 (H)mm



11.3 Shipping package of palletizing sequence



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13. Appendix: EDID description

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	24	00100100	36	
0B	hex, LSB first	31	00110001	49	
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	11	00010001	17	
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)	1D	00011101	29	
16	Max V image size (rounded to cm)	12	00010010	18	
17	Display Gamma (=gamma*100)-100)	78	01111000	120	
18	Feature support (no DPMS, Active OFF, RGB, tmg Blk#1)	0A	00001010	10	
19	Red/green low bits (Lower 2:2:2:2 bits)	90	10010000	144	
1A	Blue/white low bits (Lower 2:2:2:2 bits)	B5	10110101	181	
1B	Red x (Upper 8 bits)	99	10011001	153	
1C	Red y/ highER 8 bits	58	01011000	88	
1D	Green x	52	01010010	82	
1E	Green y	8E	10001110	142	
1F	Blue x	26	00100110	38	
20	Blue y	1E	00011110	30	



Product Specification

AU Optronics Corporation

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	C7	11000111	199	
37	Pixel Clock/10000 USB	1B	00011011	27	
38	Horz active Lower 8bits	00	00000000	0	
39	Horz blanking Lower 8bits	A0	10100000	160	
3A	HorzAct:HorzBlnk Upper 4:4 bits	50	01010000	80	
3B	Vertical Active Lower 8bits	20	00100000	32	
3C	Vertical Blanking Lower 8bits	17	00010111	23	
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&Vert Sync Offset/Width Upper 2bits	00	00000000	0	
42	Horizontal Image Size Lower 8bits	1E	00011110	30	
43	Vertical Image Size Lower 8bits	B3	10110011	179	
44	Horizontal & Vertical Image Size (upper 4:4 bits)	10	00010000	16	



Product Specification

AU Optronics Corporation

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	O
62		0A	00001010	10	
63		20	00100000	32	
64		20	00100000	32	
65		20	00100000	32	
66		20	00100000	32	
67		20	00100000	32	
68		20	00100000	32	
69		20	00100000	32	



Product Specification

AU Optronics Corporation

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	B
72	Manufacture P/N	31	00110001	49	1
73	Manufacture P/N	33	00110011	51	3
74	Manufacture P/N	33	00110011	51	3
75	Manufacture P/N	45	01000101	69	E
76	Manufacture P/N	57	01010111	87	W
77	Manufacture P/N	30	00110000	48	0
78	Manufacture P/N	33	00110011	51	3
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	C	00001100	12	