




Product Specification

AU OPTRONICS CORPORATION

() Preliminary Specifications

(V) Final Specifications

Module	11.6”(11.58”) 16:9 Color TFT-LCD with LED Backlight design & touch function
Model Name	B116XAT03.1 (H/W:0A)
Note ()	LED Backlight with driving circuit design (LCM-B116XAN03.0 +TP-I116FGT04.0)

Customer	Date
Checked & Approved by	Date
Note: This Specification is subject to change without notice.	

Approved by	Date
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Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2013/01/09	All	First Edition for Customer		
0.2 2013/01/10	13	Absolute Ratings of Touch Sensor	Update Min volt	
	15	Touch Sensor Power Consumption	Update Specification	
	19	Touch Sensor Signal Description/ Pin Assignment	Update Pin Assignment	
0.3 2013/03/21	25	Shipping and packing	update Shipping and packing label	
	27	EDID	Update checksum version	
	5	General Spec. Thickness	Update Thickness	
			Update White Luminance	
	6	TP Spec.	Update FW version	
	23	LCD Outline dimension	Update thickness, assy tolerance	

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 momentarily. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 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.

2. General Description

B116XAT03 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 16:9 , 1366(H) x768(V) screen and 16.7M colors (RGB 6-bits + Hi FRC data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B116XAT03 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]	294.09 (11.58W")			
Active Area	[mm]	256.125(H) x 144(V)			
Pixels H x V		1366 x 3(RGB) x 768			
Pixel Pitch	[mm]	0.1875 X 0.1875			
Pixel Format		R.G.B. Vertical Stripe			
Display Mode		AHVA, Normally Black			
White Luminance (ILED=18mA) (Note: ILED is LED current)	[cd/m ²]	350 typ. (5 points average) 300 min. (5 points average)			
Luminance Uniformity		1.25 max. (5 points)			
Contrast Ratio		800 typ			
Response Time	[ms]	25 typ / 35 Max			
Nominal Input Voltage VDD	[Volt]	+3.3 typ.			
Power Consumption	[Watt]	3.5 max. (Include Logic and Blu power)			
Weight	[Grams]	160 max. (Panel only)			
		285 max. (Total Solution)			
Physical Size (Panel only) without bracket	[mm]		Min.	Typ.	Max.
		Length	267.5	268	268.5
		Width	158	158.5	159
		Thickness	--	--	2.50 (Panel Side) 4.50 (PCBA Side)
Physical Size (Total Solution) without bracket	[mm]		Min.	Typ.	Max.
		Length	288.7	288.8	288.9
		Width	176.7	176.8	176.9
		Thickness	--	--	3.55 (Panel Side) 8.43(PCBA Side)
Electrical Interface		LVDS			

Glass Thickness	[mm]	0.25+0.25
Surface Treatment		Anti-Reflection $\leq 1.5\%$, Hardness 3H
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

2.1.1 General Touch Specification

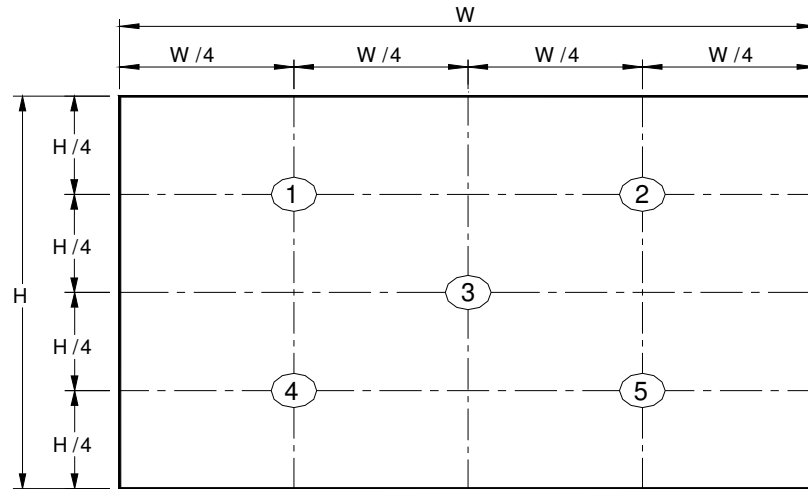
Item	Spec	Unit
Type of Touch Sensor	Projective Capacitive	
Panel Size	11.6"	
Outline Dimension	288.8 x 176.8(typ)	mm
Total Thickness	0.7 (Only OGS thickness)	mm
Total Weight	95.0 (Only OGS+FPC)	g
TP Active Area	257.52 x 145.38 (typ)	mm
Interface	USB2.0	
Report Rate	Finger mode – 100hz(single), 100hz(10 fingers) SR mode – 100hz(single), 80hz(10 fingers)	Hz
Multi-Touch Point	10 point	
Input method	Finger/Pen	
Touch panel sensor IC	ELAN eKTF3515 *2	
Channel	33(Tx) x 58(Rx)	
Distance between 2 point	12 (min)	mm
Surface hardness	8	H
TP F/W version	0012	

2.2 Optical Characteristics

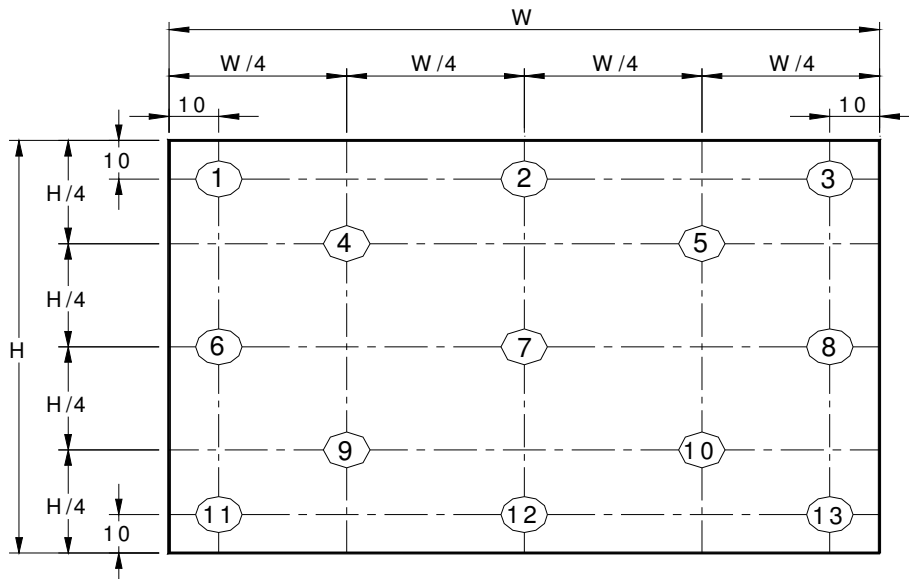
The optical characteristics are measured under stable conditions at 25°C (Room Temperature) :

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit	Note				
White Luminance I _{LED} =20mA			5 points average	300	350	---	cd/m ²	1, 4, 5.				
Viewing Angle		θ _R θ _L	Horizontal (Right) CR = 10 (Left)		85	---	degree	4, 9				
					85	---						
		ψ _H ψ _L	Vertical (Upper) CR = 10 (Lower)		85	---						
					85	---						
Luminance Uniformity		δ _{5P}	5 Points	---	---	1.25		1, 3, 4				
Luminance Uniformity		δ _{13P}	13 Points	---	---	1.50		2, 3, 4				
Contrast Ratio		CR			800	-		4, 6				
Cross talk		%		---	---	4		4, 7				
Response Time		T _{RT}	Rising + Falling	---	25	35	msec	4, 8				
Color / Chromaticity Coordinates	Red	R _x	CIE 1931	0.559	0.589	0.619		4				
		R _y		0.307	0.337	0.367						
	Green	G _x		0.299	0.329	0.359						
		G _y		0.558	0.588	0.618						
	Blue	B _x		0.126	0.156	0.186						
		B _y		0.098	0.128	0.158						
	White	W _x		0.283	0.313	0.343						
		W _y		0.299	0.329	0.359						
	NTSC			%		-			50	-		

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



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



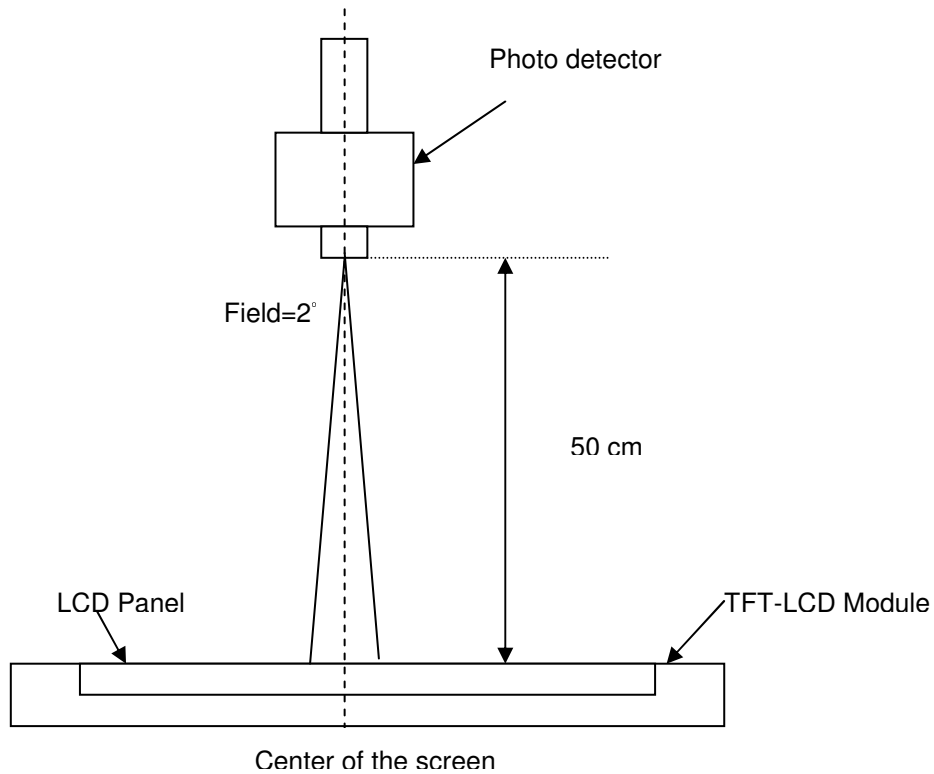
Note 3: The luminance uniformity of 5 or 13 points is defined by dividing the maximum luminance values by the minimum test point luminance

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

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

Note 4: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room, and it should be measured in the center of screen.



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

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

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

Note 6 : Definition of contrast ratio:

Contrast ratio is calculated with the following formula.

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

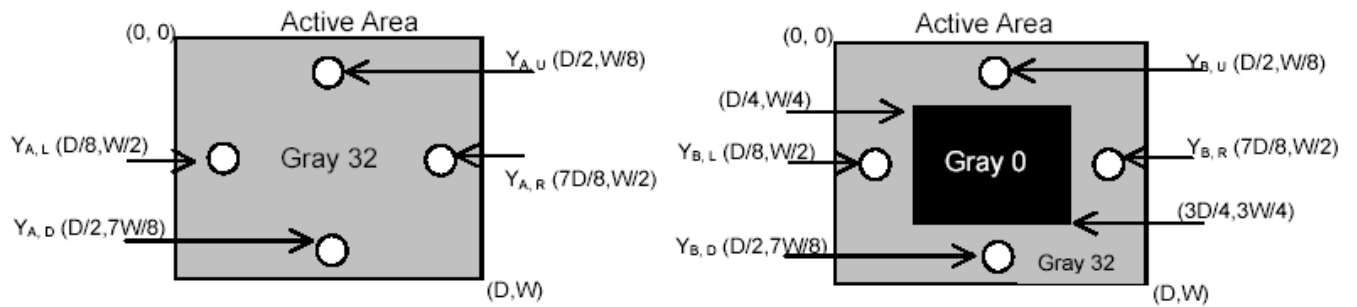
Note 7 : Definition of Cross Talk (CT)

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

Where

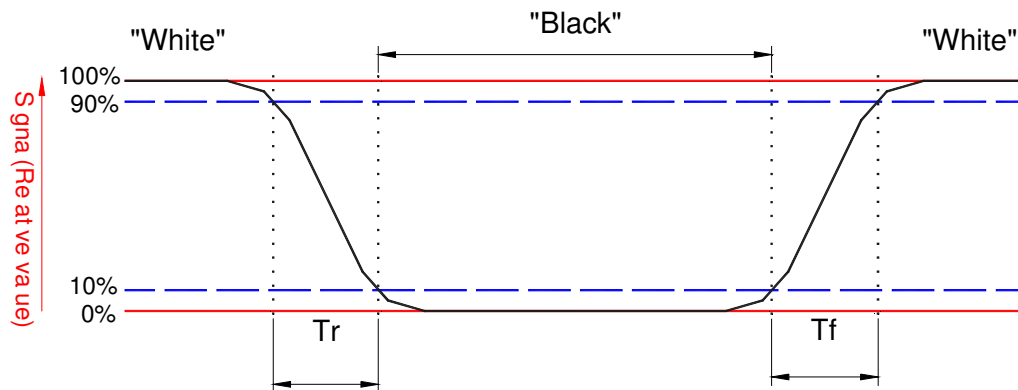
Y_A = Luminance of measured location without gray level 0 pattern (cd/m²)

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



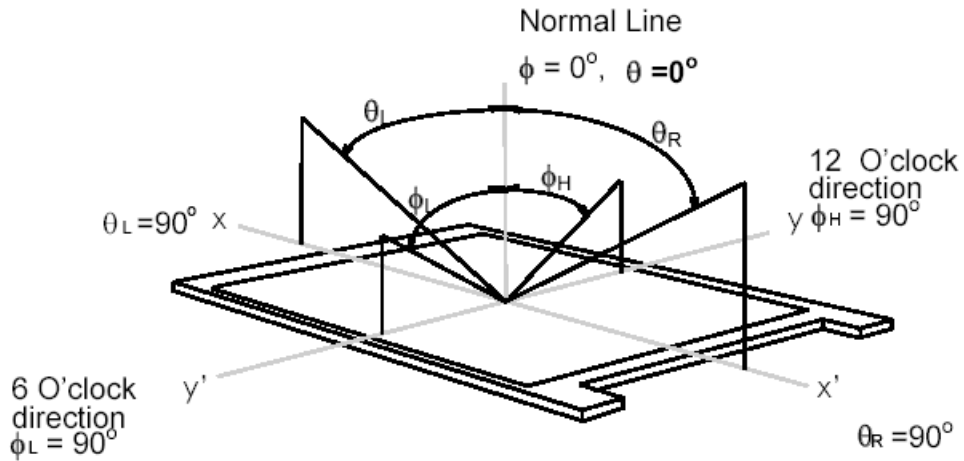
Note 8: Definition of response time:

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



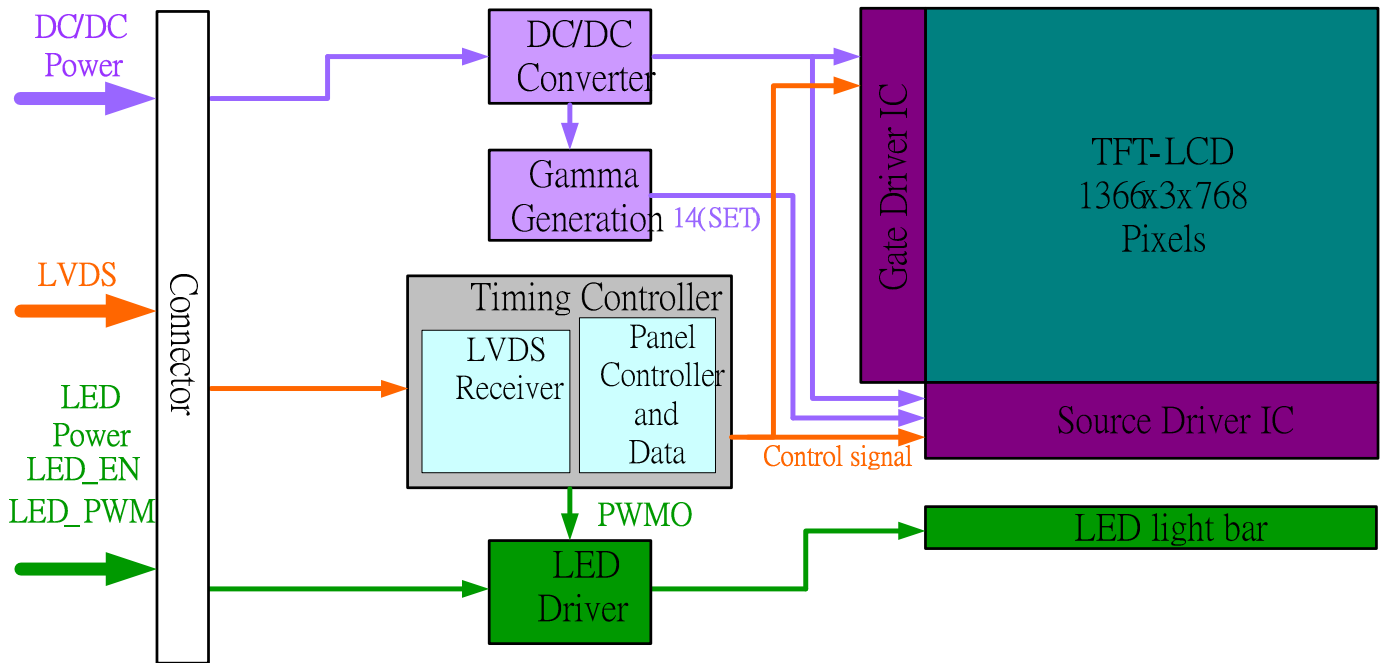
Note 9. Definition of viewing angle

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



3. Functional Block Diagram

The following diagram shows the functional block of the 11.6 inches wide Color TFT/LCD 30 Pin one channel Module



4. Absolute Maximum Ratings

An absolute maximum rating of the module is as following:

4.1 Absolute Ratings of TFT LCD Module

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

4.2 Absolute Ratings of Touch Sensor

Item	Symbol	Min	Unit	Conditions
Touch Sensor Power Voltage	V _{in}	5(typ)	[Volt]	

4.3 Absolute Ratings of Environment

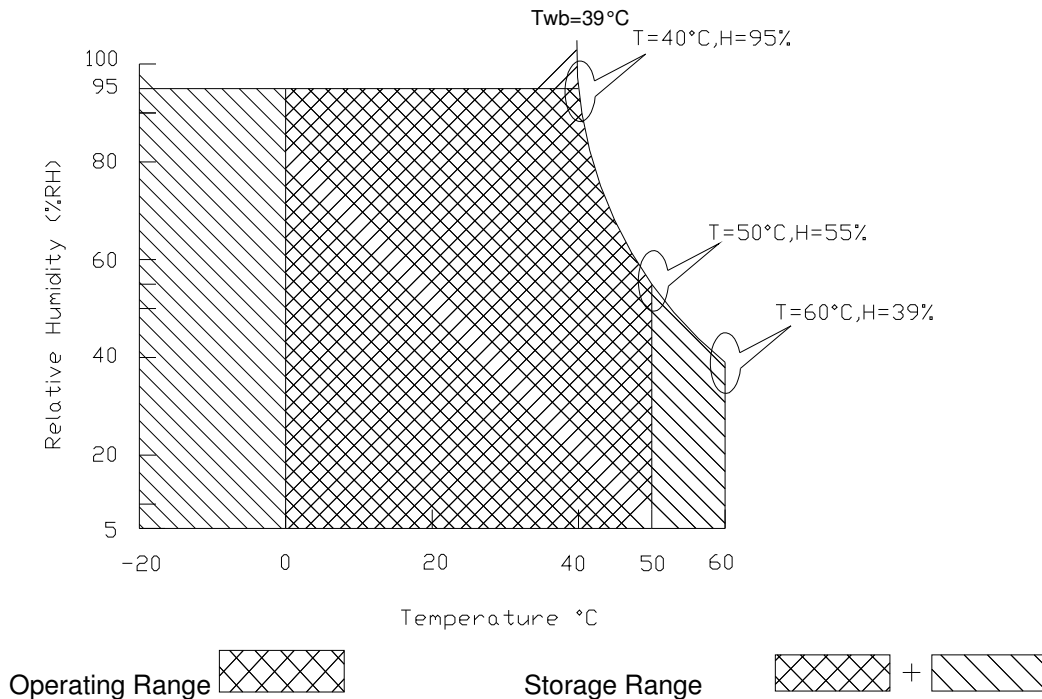
Item	Symbol	Min	Max	Unit	Conditions
Operating	TOP	0	50	[°C]	Note 4
Operation Humidity	HOP	5	95	[%RH]	Note 4
Storage Temperature	TST	-20	+60	[°C]	Note 4
Storage Humidity	HST	5	95	[%RH]	Note 4

Note 1: At T_a (25°C)

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

Note 3: LED specification refer to section 5.2

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



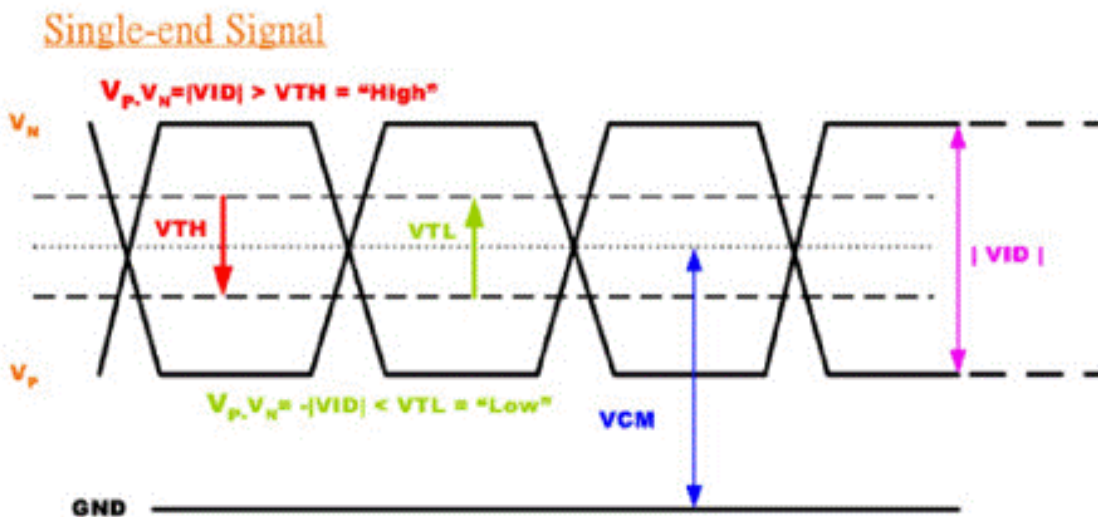
5.1.2 Signal Electrical Characteristics

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

Signal electrical Characteristics are as follows;

Parameter	Condition	Min	Max	Unit
V_{TH}	Differential Input High Threshold ($V_{cm}=+1.2V$)	---	100	[mV]
V_{TL}	Differential Input Low Threshold ($V_{cm}=+1.2V$)	-100	----	[mV]
$ V_{ID} $	Differential Input Voltage	100	600	[mV]
V_{CM}	Differential Input Common Mode Voltage	1.125	1.375	[V]

Note: LVDS Signal Waveform



5.2 Touch Sensor Power Consumption

Items	Symbol	Specifications			Unit	Notes
		Min.	Typ.	Max.		
Touch Panel Power Supply	VDD	3.0	3.3	3.6	V	
Touch Panel Power Supply Current	VDDi	---	---	67	mA	

5.3 Backlight Unit

5.3.1 LED characteristics

Parameter	Symbol	Min	Typ	Max	Units	Condition
Backlight Power Consumption	PLED	-	-	2.6	[Watt]	(Ta=25°C), Note 1 Vin =3V
LED Life-Time	N/A	>15,000	-	-	Hour	(Ta=25°C), Note 2 If=20mA

Note 1: Calculator value for reference $P_{LED} = V_F$ (Normal Dist.ribution) * I_F (Normal Distribution) / Efficiency

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

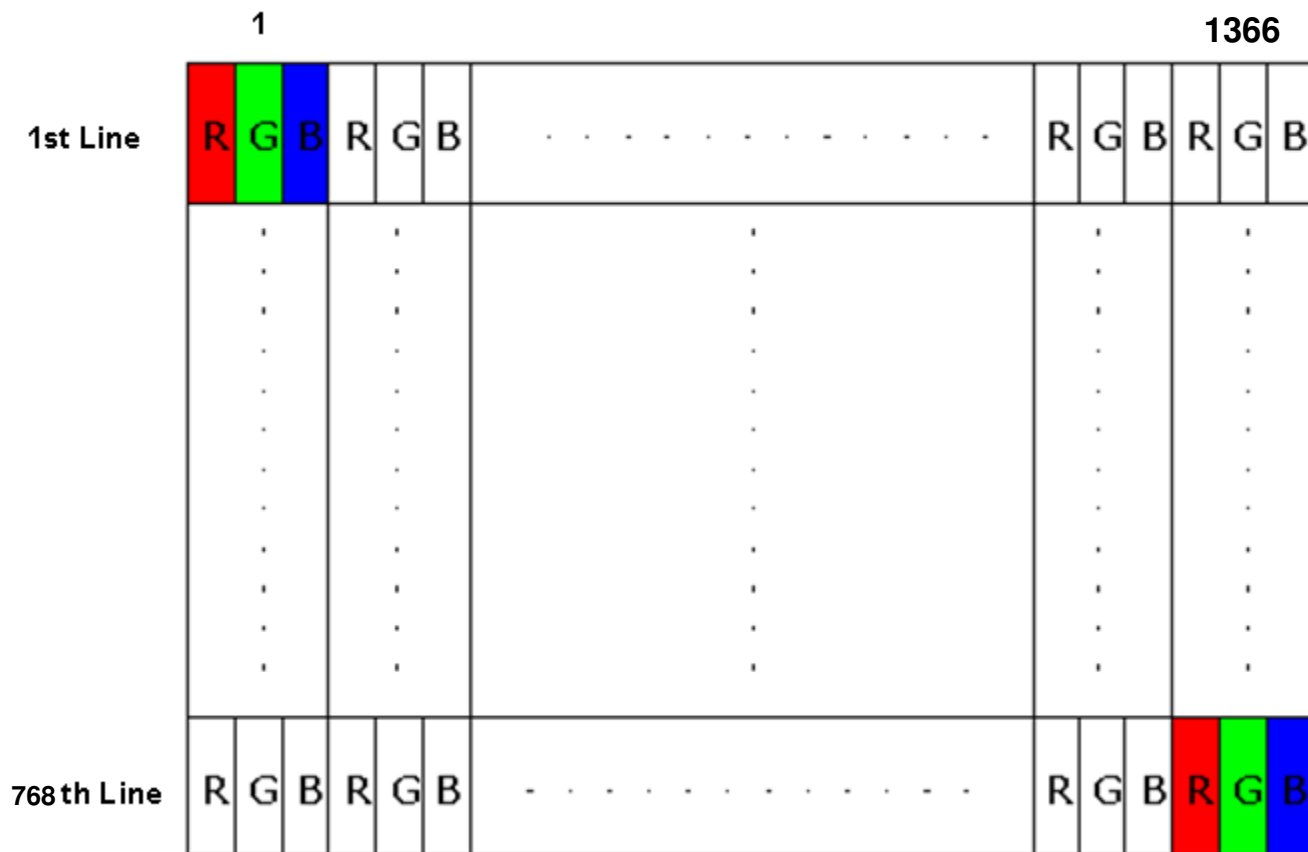
5.3.2 Backlight input signal characteristics

Parameter	Symbol	Min	Typ	Max	Units	Remark
LED Power Supply	VLED	6	12.0	20.0	[Volt]	Define as Connector Interface (Ta=25°C)
PWM Logic Input High Level	VPWM_EN	2.5	3.3	5.5	[Volt]	
PWM Logic Input Low Level		-	-	0.8	[Volt]	
PWM Input Frequency	FPWM Duty	200	1K	15K	Hz	
PWM Duty Ratio		5	--	100	%	

6. Signal Interface Characteristic

6.1 Pixel Format Image

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



6.2 Integration Interface Requirement

6.2.1 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.

Connector Name / Designation	For Signal Connector
Manufacturer	I-PEX
Type / Part Number	20455-040E-12R
ating Housing/Part Number	20453-040T

6.2.2 Pin Assignment

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

No.	Pin Name	I/O	Power Rail	Description
1	NC			No Connection (Reserve)
2	VDD			Power Supply +3.3V
3	VDD			Power Supply +3.3V
4	VEDID			EDID +3.3V Power
5	AGING			Aging Mode Power Supply
6	CLK_EDID			EDID Clock Input (3.3V) note2
7	DAT_EDID			EDID Data Input (3.3V) note2
8	Rin0-			-LVDSdifferential data input(R0-R5,G0)
9	Rin0+			+LVDSdifferential data input(R0-R5,G0)
10	GND			Ground
11	Rin1-			-LVDSdifferential data input(G1-G5,B0-B1)
12	Rin1+			+LVDSdifferential data input(G1-G5,B0-B1)
13	GND			Ground
14	Rin2-			-LVDSdifferential data input(B2-B5,HS,VS,DE)
15	Rin2+			+LVDSdifferential data input(B2-B5,HS,VS,DE)
16	GND			Ground
17	ClkIN-			-LVDSdifferential clock input
18	ClkIN+			+LVDSdifferential clock input
19	NC			No Connection (Reserve)
20	Rin3-			-LVDSdifferential data input(R6,R7,G6,G7,B6,B7)
21	Rin3+			+LVDSdifferential data input(R6,R7,G6,G7,B6,B7)



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22	GND			Ground-Shield
23	NC			No Connection (Reserve)
24	GND			Ground-Shield
25	NC			No Connection (Reserve)
26	GND			Ground-Shield
27	NC			No Connection (Reserve)
28	GND			Ground-Shield
29	NC			No Connection (Reserve)
30	NC			No Connection (Reserve)
31	VLED_GND			LED Ground
32	VLED_GND			LED Ground
33	VLED_GND			LED Ground
34	NC			No Connection (Reserve)
35	LED_PWM			System PWM Logic Input Level
36	VLED_EN			LED enable input level (2.5V Min)
37	CABC_EN			No Connection (Reserve)
38	VLED			LED Power Supply (3~19V)
39	VLED			LED Power Supply (3~19V)
40	VLED			LED Power Supply (3~19V)

6.2.3 Touch Sensor Signal Description/ Pin Assignment

	Signal Name	Description
1	5V	Power Supply +5V
2	D+	USB Signal
3	D-	USB Signal
4	GND	Ground
5	GND	Ground
6	UA_PA4	Link to IC UA_PA4

6.3 Interface Timing

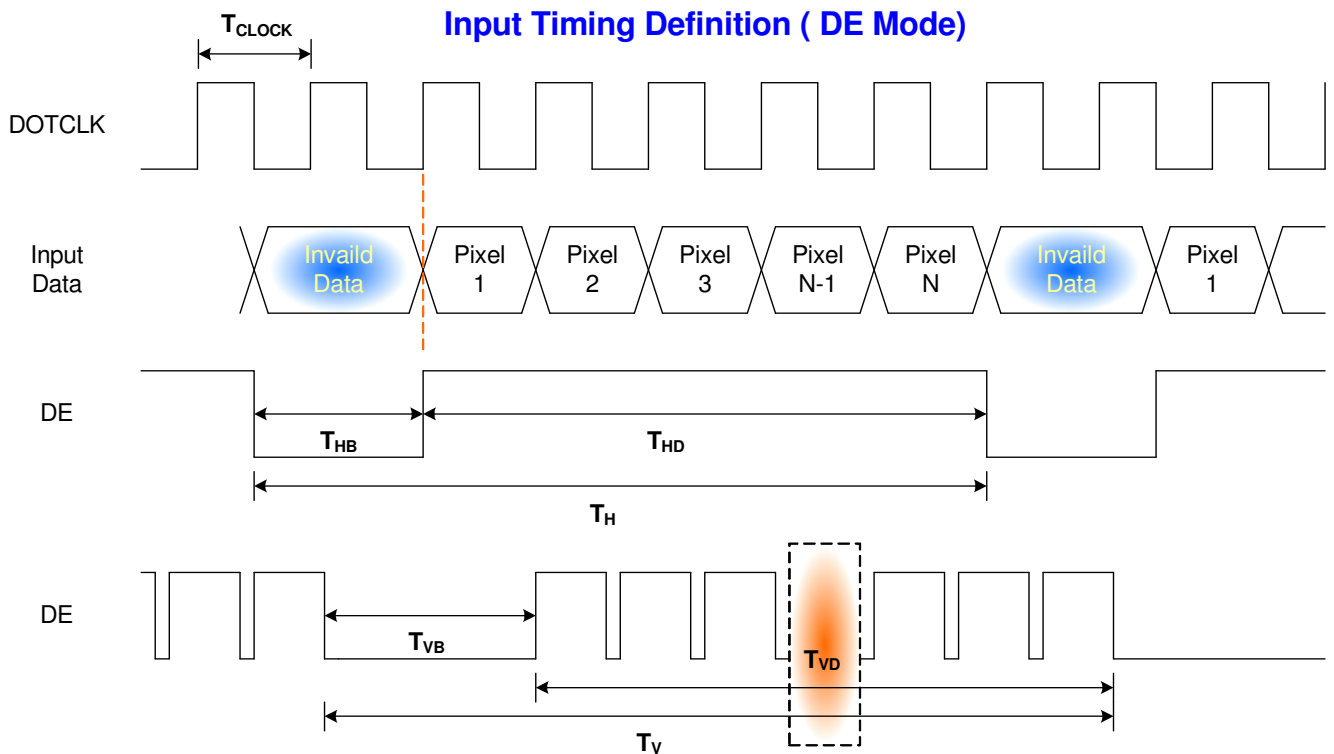
6.3.1 Timing Characteristics

Basically, interface timings should match the 1366x768 /60Hz manufacturing guide line timing.

Parameter		Symbol	Min.	Typ.	Max.	Unit
Frame Rate		---	---	60	---	Hz
Clock frequency		1/ T _{Clock}	TBD	69.3	TBD	MHz
Vertical Section	Period	T _V	TBD	793	TBD	T _{Line}
	Active	T _{VD}	768			
	Blanking	T _{VB}	TBD	25	TBD	
Horizontal Section	Period	T _H	TBD	1456	TBD	T _{Clock}
	Active	T _{HD}	1366			
	Blanking	T _{HB}	TBD	90	TBD	

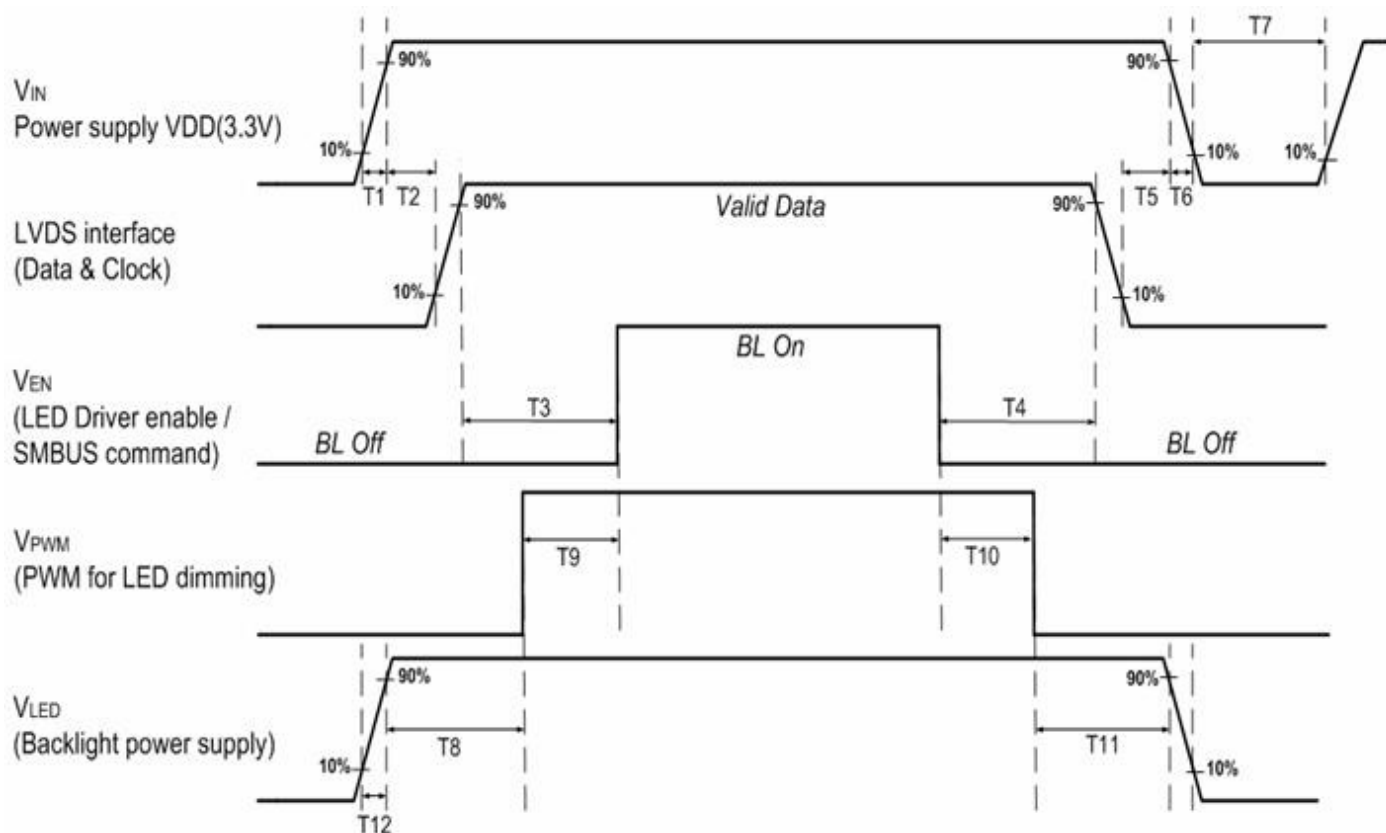
Note : DE mode only

6.3.2 Timing diagram



6.4 Power On Sequence

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



Parameter	Value	
	Min.(ms)	Max.(ms)
T1	0.5	10
T2	0	50
T3	200	-
T4	200	-
T5	0	50
T6	0	10
T7	500	-
T8	10	-
T9	10	180
T10	10	180
T11	10	-
T12	0.5	10

7. Panel Reliability Test

7.1 Vibration Test

Test Spec:

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

7.2 Shock Test

Test Spec:

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

7.3 Reliability Test

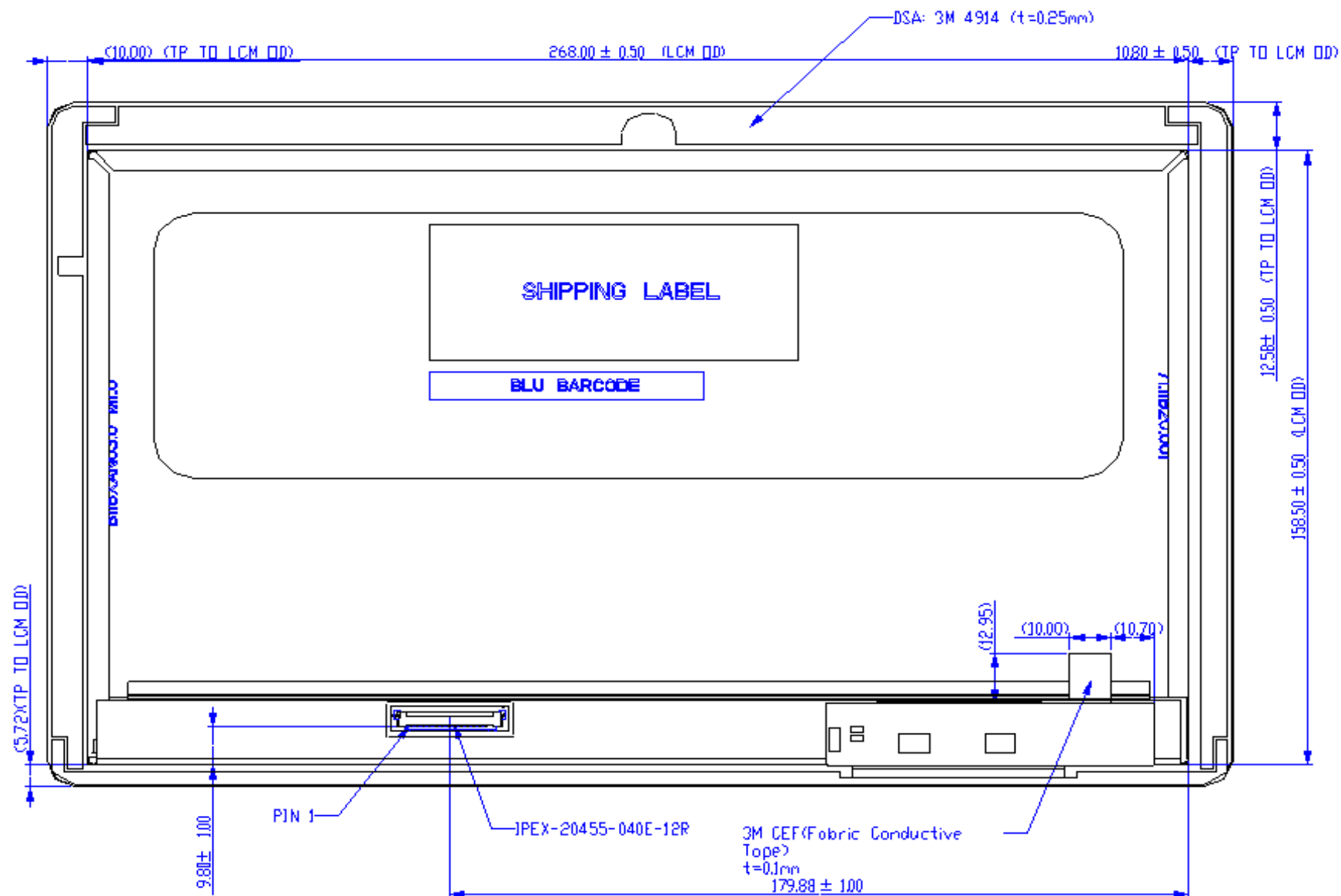
Items	Required Condition	Note
Temperature Humidity Bias	Ta= 40°C , 90%RH, 300h	
High Temperature Operation	Ta= 50°C , Dry, 300h	
Low Temperature Operation	Ta= 0°C , 300h	
High Temperature Storage	Ta= 60°C , 300h	
Low Temperature Storage	Ta= -20°C , 300h	
Thermal Shock Test	Ta=-20°C to 60°C , Duration 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. Self-recoverable.

No data lost, No hardware failures.

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

8.1.2 Standard Back View



9. Shipping and Package

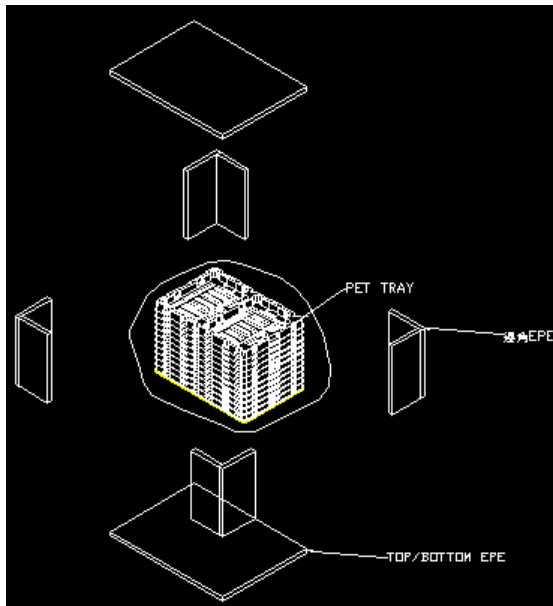
9.1 Shipping Label Format

	<p>Manufactured 05/52 Model No: B116XAT03.1 AU Optronics Made in China (S01)</p>	<p>c  US  E204356</p> <p></p> <p></p>
<p>*XXXXXXXXXXXXX.XXXXXX</p>	<p>H/W: 0A F/W:1</p>	

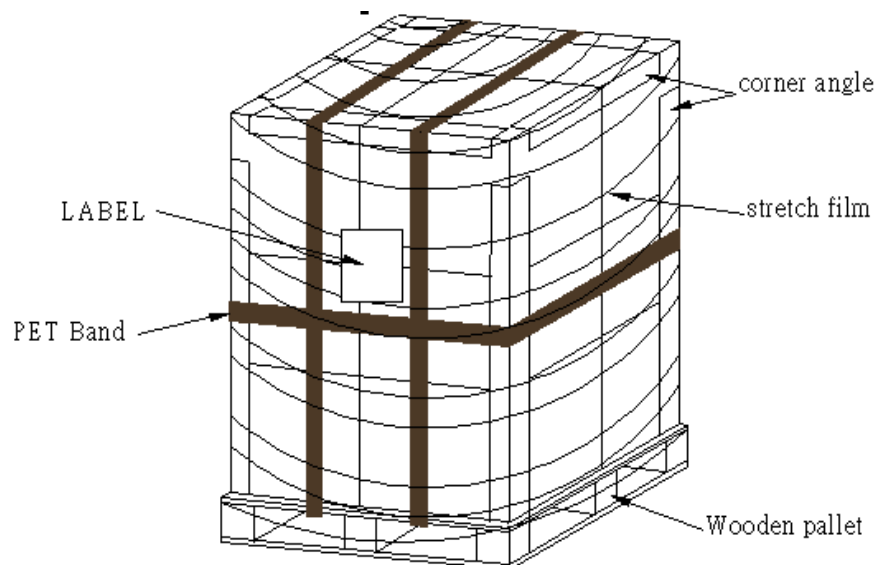
9.2 Carton Label Format

AU Optronics	QTY : 40		
MODEL NO :	B116XAT03.1		
PART NO :	97.11B22.100		
CUSTOMER NO :			
CARTON NO :			
Made in China	<p>****ZS0307-0822500037*</p>		

9.3 Carton Package



9.4 Shipping Package of Palletizing Sequence





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10. Appendix

10.1 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	5C	01011100	92	
0B	hex LSB first	30	00110000	48	
0C	32-bit ser #	00	00000000	0	
0D		00	00000000	0	
0E		00	00000000	0	
0F		00	00000000	0	
10	Week of manufacture	00	00000000	0	
11	Year of manufacture	17	00010111	23	
12	EDID Structure Ver.	01	00000001	1	
13	EDID revision #	04	00000100	4	
14	Video input def. (digital I/P, non-TMDS, CRGB)	A0	10100000	160	
15	Max H image size (rounded to cm)	1A	00011010	26	
16	Max V image size (rounded to cm)	0E	00001110	14	
17	Display Gamma $(=(\text{gamma} \times 100) - 100)$	78	01111000	120	
18	Feature support (no DPMS, Active OFF, RGB, tmg Blk#1)	02	00000010	2	
19	Red/green low bits (Lower 2:2:2:2 bits)	99	10011001	153	
1A	Blue/white low bits (Lower 2:2:2:2 bits)	85	10000101	133	
1B	Red x (Upper 8 bits)	95	10010101	149	
1C	Red y/ highER 8 bits	55	01010101	85	
1D	Green x	56	01010110	86	
1E	Green y	92	10010010	146	
1F	Blue x	28	00101000	40	
20	Blue y	22	00100010	34	
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	



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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	12	00010010	18	
37	Pixel Clock/10000 USB	1B	00011011	27	
38	Horz active Lower 8bits	56	01010110	86	
39	Horz blanking Lower 8bits	5A	01011010	90	
3A	HorzAct:HorzBlnk Upper 4:4 bits	50	01010000	80	
3B	Vertical Active Lower 8bits	00	00000000	0	
3C	Vertical Blanking Lower 8bits	19	00011001	25	
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	46	01000110	70	
41	Horz&Vert Sync Offset/Width Upper 2bits	00	00000000	0	
42	Horizontal Image Size Lower 8bits	00	00000000	0	
43	Vertical Image Size Lower 8bits	90	10010000	144	
44	Horizontal & Vertical Image Size (upper 4:4 bits)	10	00010000	16	
45	Horizontal Border <i>(zero for internal LCD)</i>	00	00000000	0	
46	Vertical Border <i>(zero for internal LCD)</i>	00	00000000	0	
47	Signal <i>(non-intr, norm, no stero, sep sync, neg pol)</i>	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	



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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	
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	31	00110001	49	1
74	Manufacture P/N	36	00110110	54	6
75	Manufacture P/N	58	01011000	88	X
76	Manufacture P/N	41	01000001	65	A
77	Manufacture P/N	4E	01001110	78	N
78	Manufacture P/N	30	00110000	48	0
79	Manufacture P/N	33	00110011	51	3
7A	Manufacture P/N	2E	00101110	46	.
7B	Manufacture P/N	30	00110000	48	0
7C		20	00100000	32	
7D		0A	00001010	10	
7E	Extension Flag	00	00000000	0	
7F	Checksum	CF	11001111	207	