



Product Specification

AU OPTRONICS CORPORATION

- () Preliminary Specifications
- (V) Final Specifications

Module	17.3"(17.26") FHD 16:9 Color TFT-LCD with LED Backlight design
Model Name	B173HAN01.7 (H/W:0A)
Note ()	LED Backlight with driving circuit design

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 2018/4/20	All	Final Spec for customer		

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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 ensure 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.



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2. General Description

B173HAN01.3 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 FHD, 1920(H) x 1080(V) screen and 16.2M colors (RGB 6-bits+FRC data driver) with LED backlight driving circuit. All input signals are eDP(Embedded DisplayPort) interface compatible.

B173HAN01.3 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]	17.3"(17.26)			
Active Area	[mm]	381.888 x 214.812			
Pixels H x V		1920 x 3 (RGB) x 1080			
Pixel Pitch	[mm]	0.1939 x 0.1939			
Pixel Format		R.G.B. Vertical Stripe			
Display Mode		Normally Black(AHVA)			
White Luminance (ILED=22mA) (Note: ILED is LED current)	[cd/m ²]	300 typ. (5 points average) 255 min. (5 points average)			
Luminance Uniformity		1.25 max. (5 points)			
Luminance Uniformity		1.53 max. (13 points)			
Contrast Ratio		700 typ			
Response Time	[ms]	25 typ			
Nominal Input Voltage VDD	[Volt]	+3.3 typ.			
Power Consumption	[Watt]	6.1 W Max (Max : Include Logic@ mosaic and Blu power)			
Weight	[Grams]	550g max			
Physical Size	[mm]		Min.	Typ.	Max.
		Length	397.6	398.1	398.6
		Width	250	250.5	251
		Thickness	-	-	4
Electrical Interface		2 Lane eDP 1.2			



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Glass Thickness	[mm]	0.5
Surface Treatment		Anti-Glare, Hardness 3H
Support Color		6-bit + FRC
Temperature Range	[°C]	0 to +50
Operating	[°C]	-20 to +60
Storage (Non-Operating)		
RoHS Compliance		RoHS Compliance

2.2 Optical Characteristics

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

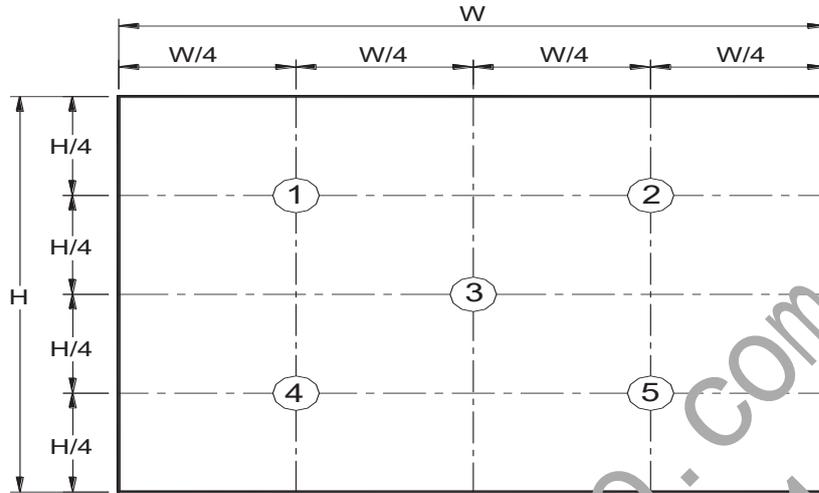
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit	Note
White Luminance ILED=22mA (Base Panel Only)		5 points average	255	300	375	cd/m2	1, 4, 5.
Viewing Angle	θR	Horizontal (Right) CR = 10 (Left)	85	89	-	degree	4, 9
	θL		85	89	-		
	ψH	Vertical (Upper) CR = 10 (Lower)	85	89	-		
	ψL		85	89	-		
Luminance Uniformity	δ5P	5 Points	-	-	1.25		1, 3, 4
Luminance Uniformity	δ13P	13 Points	-	-	1.53		2, 3, 4
Contrast Ratio	CR		-	700	-		4, 6
Cross talk	%				4		4, 7
Response Time	TRT	Rising + Falling	-	25	35		
Color / Chromaticity Coordinates	Red	Rx	0.608	0.638	0.668	CIE 1931	4
		Ry	0.307	0.337	0.367		
	Green	Gx	0.292	0.322	0.352		
		Gy	0.580	0.610	0.640		
	Blue	Bx	0.121	0.151	0.181		
		By	0.018	0.048	0.078		
	White	Wx	0.283	0.313	0.343		
		Wy	0.299	0.329	0.359		
	NTSC	%		-	72		



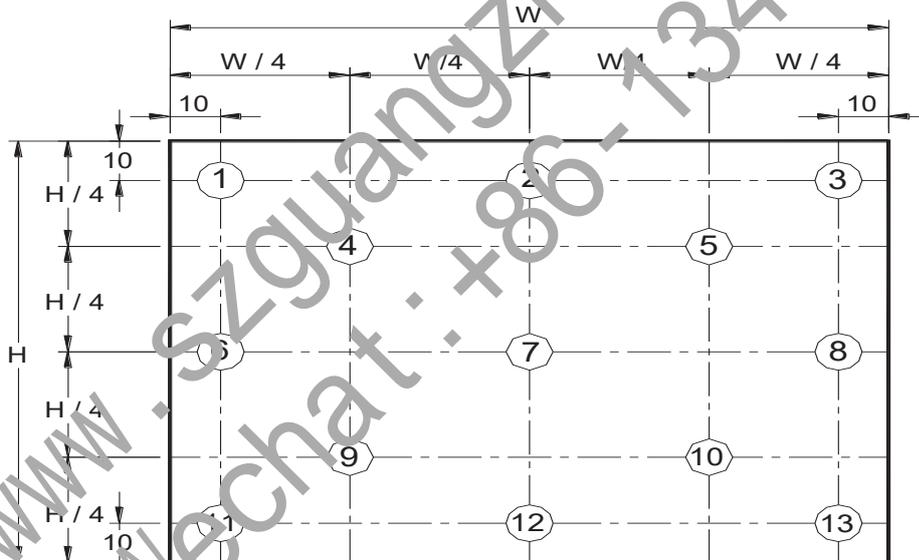
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Note 1: 5 points position (Ref: Active area)



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

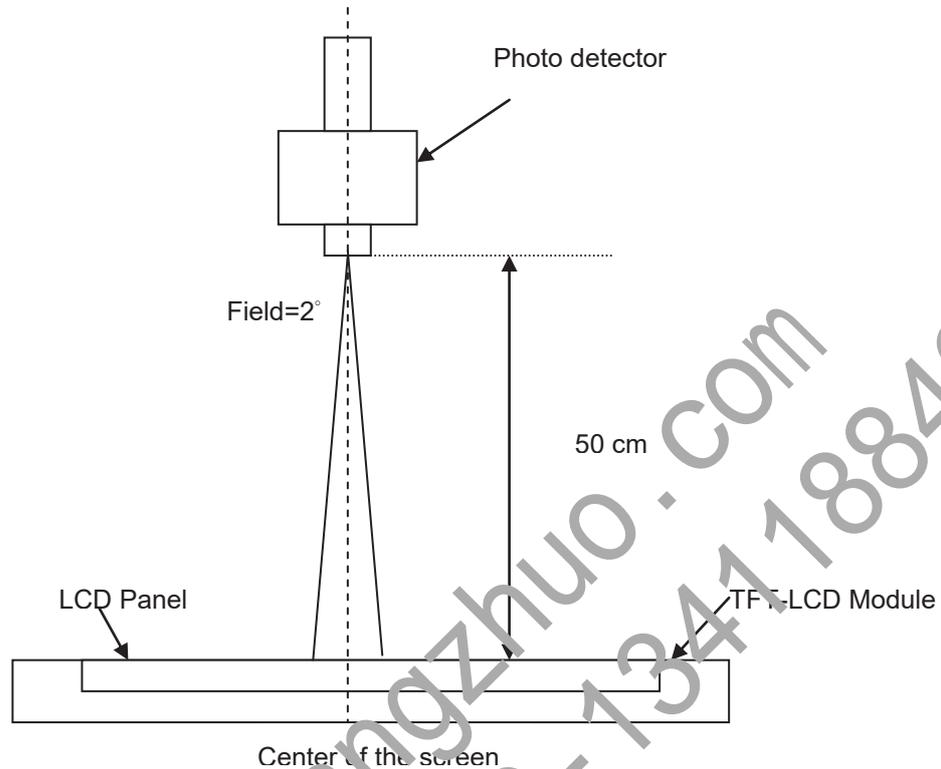
The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting



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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

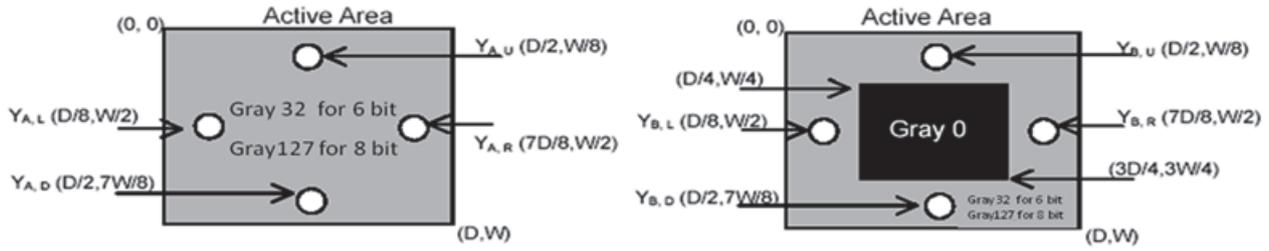
Y_A = Luminance of measured location without gray level 0 pattern (cd/m²)

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



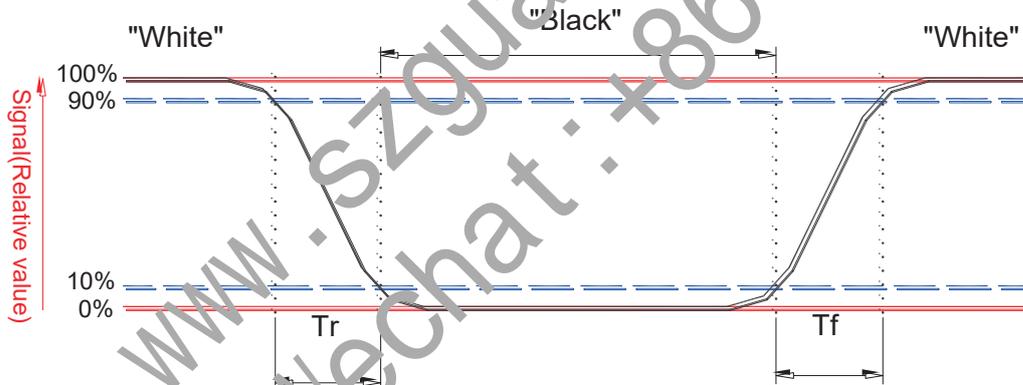
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Note 8: Definition of response time:

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.



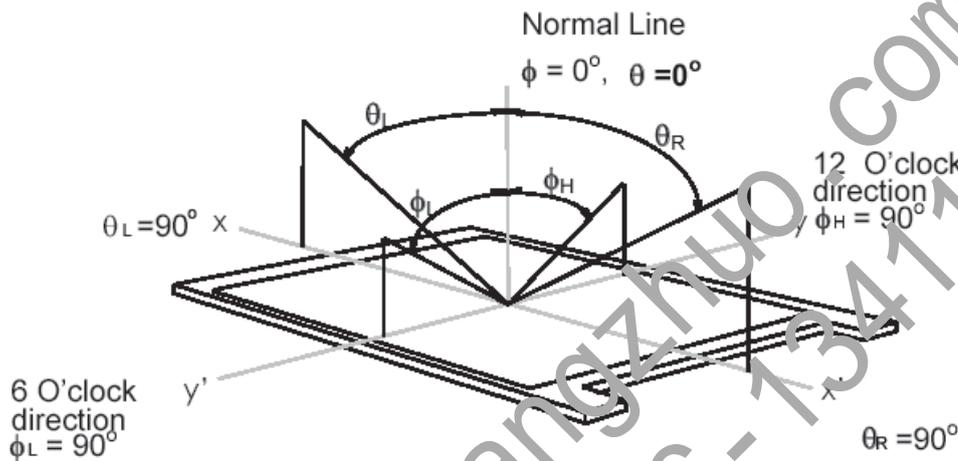


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Note 9. Definition of viewing angle

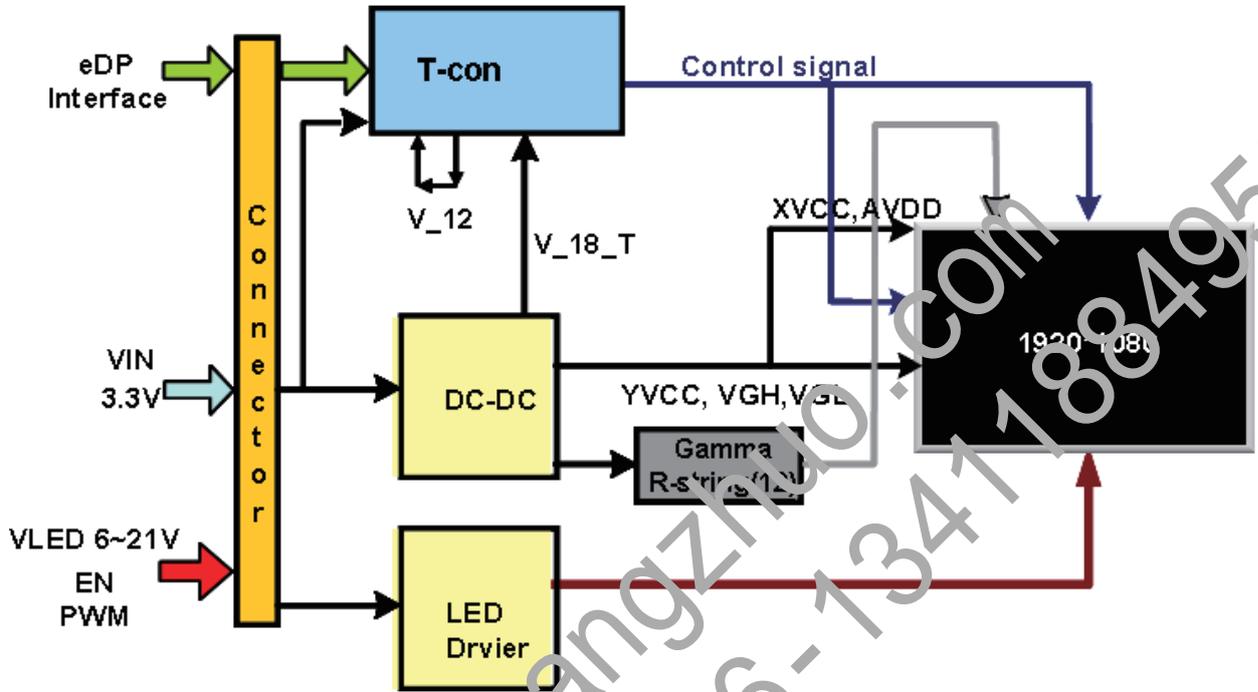
Viewing angle is the measurement of contrast ratio ≥ 10 , at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (Φ) vertical, high (up) and low (down). The measurement 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 17.3 inches wide Color TFT/LCD 30 Pin





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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	5	95	[%RH]	Note 4
Storage Temperature	TST	-20	+60	[°C]	Note 4
Storage Humidity	HST	5	95	[%RH]	Note 4

Note 1: At Ta (25°C)

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

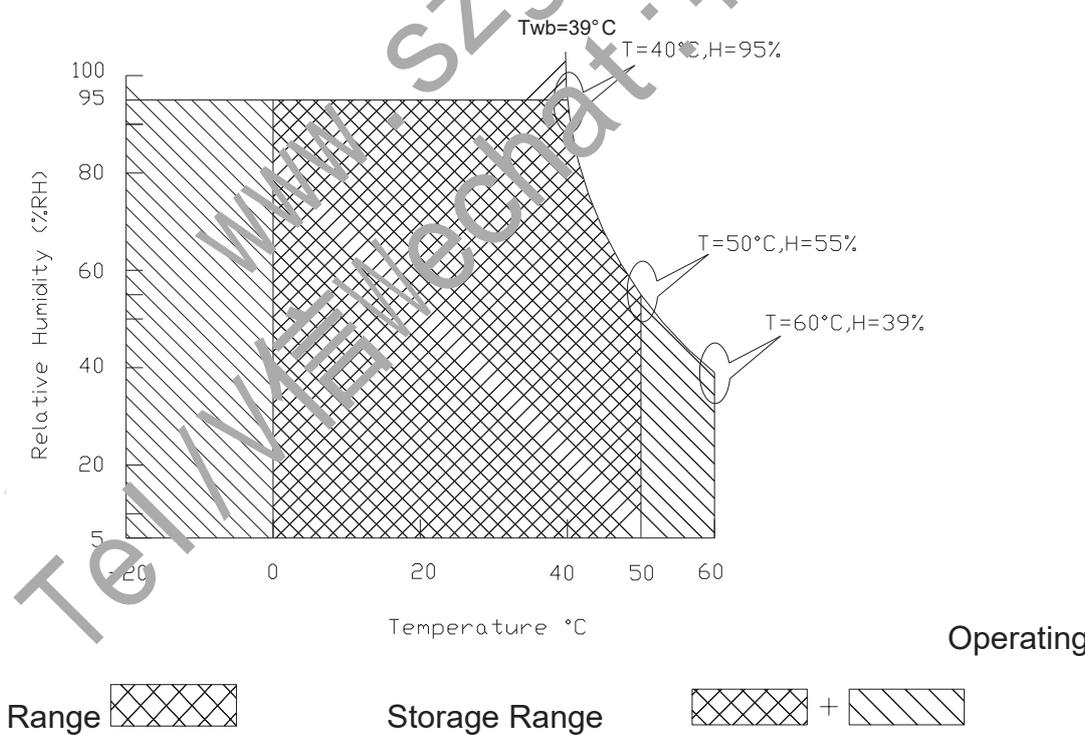
Note 3: LED specification refer to section 5.2

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

Note 5: The packing material of system forbid to involve ammonium component

Note 6: The reliability test conditions of system do not exceed the verified conditions of TFT module

Note 7: Be sure the panel test condition do not exceed the component limitation of TFT module(TN Liquid crystal , for example)





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5. Electrical Characteristics

5.1 TFT LCD Module

5.1.1 Power Specification

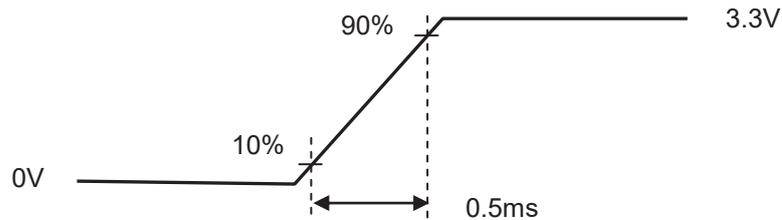
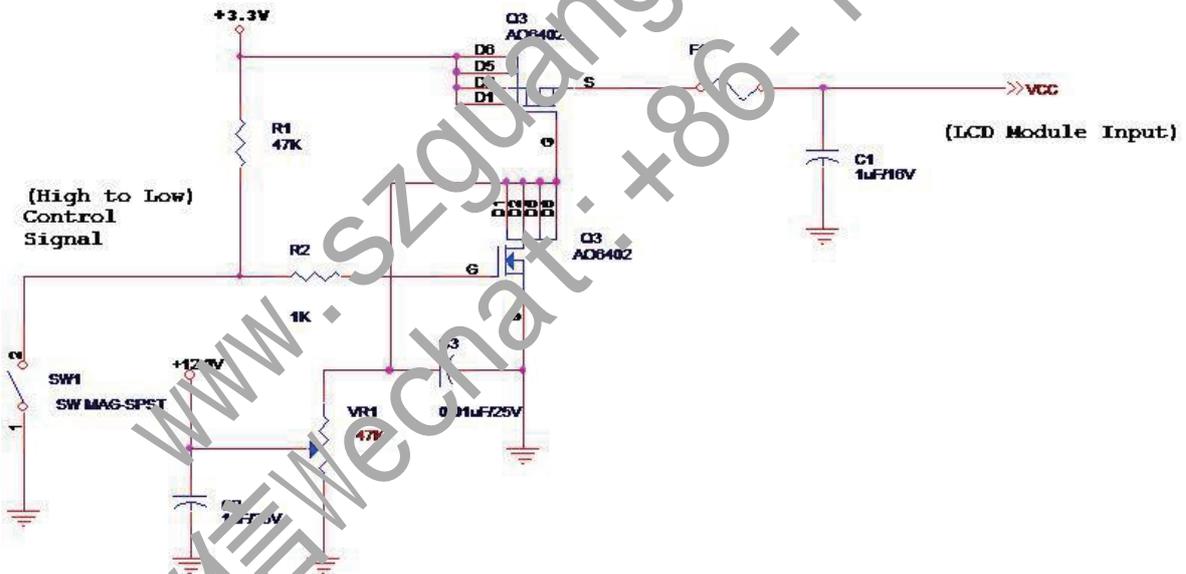
Input power specifications are as follows;

The power specification are measured under 25°C and frame frequency under 60Hz

Symble	Parameter	Min	Typ	Max	Units	Note
VDD	Logic/LCD Drive	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	-	-	1.0	[Watt]	Note 1
IDD	IDD Current(RMS)	-	-	366.7	[mA]	Note 1
IRush	Inrush Current	-	-	1500	[mA]	Note 2
VDDrp	Allowable	-	-	100	[mV]	
Symble	Parameter	Min	Typ	Max	Units	Note

Note 1 : Maximum Measurement Condition : Mosaic pattern ($PDD_{(max)} = VDD_{(min)} \times IDD_{(max)}$)

Note 2 : Measure Condition



Vin rising time



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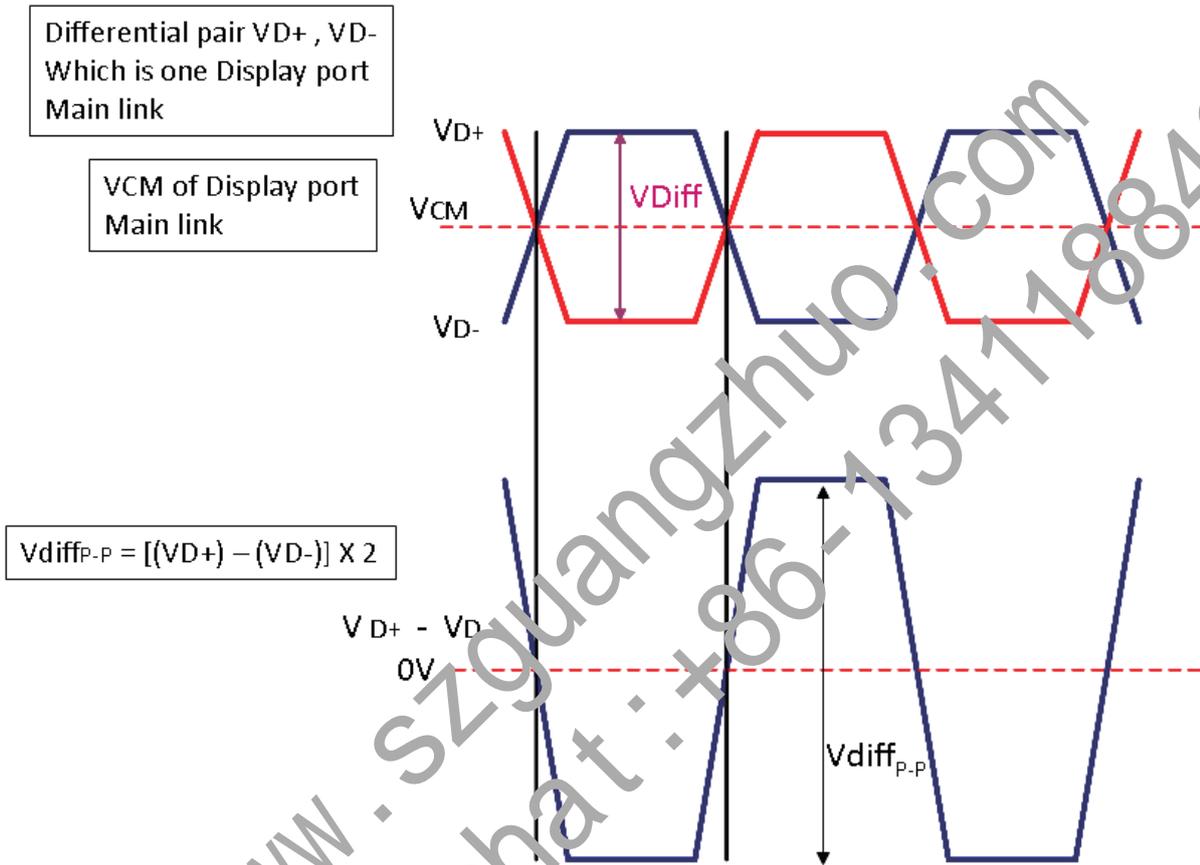
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5.1.2 Signal Electrical Characteristics

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

Signal electrical characteristics are as follows;

Display Port main link signal:



Display port main link		Min	Typ	Max	unit
VCM	RX input DC Common Mode Voltage		0		V
$V_{Diff_{P-P}}$	Peak-to-peak Voltage at a receiving Device	100		1320	mV

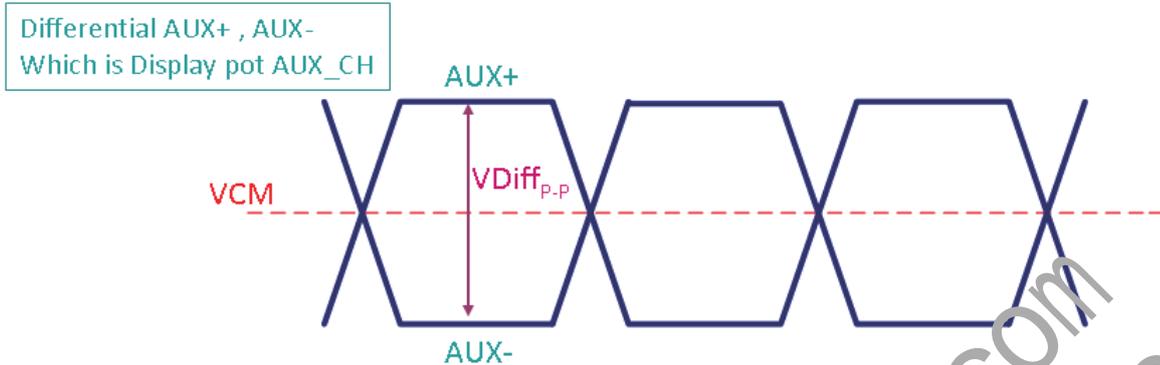
Fallow as VESA display port standard V1.1 a



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Display Port AUX_CH signal:



Display port AUX_CH					
		Min	Typ	Max	unit
VCM	AUX DC Common Mode Voltage		0		V
VDiff _{p-p}	AUX Peak-to-peak Voltage at a receiving Device	270		800	mV

Fallow as VESA display port standard V1.1a

Display Port VHPD signal:

Display port VHPD					
		Min	Typ	Max	unit
VHPD	HPD Voltage	2.25		3.6	V

Fallow as VESA display port standard V1.1a



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5.2 Backlight Unit

5.2.1 LED characteristics

Parameter	Symbol	Min	Typ	Max	Units	Condition
Backlight Power Consumption	PLED	-	-	5.1	[Watt]	(Ta=25 °C), Note 1
LED Life-Time	N/A	15,000	-	-	Hour	(Ta=25 °C), Note 2 IF=20 mA

Note 1: Calculator value for reference $P_{LED} = VF$ (Normal Distribution) * IF (Normal Distribution) / Efficiency

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

5.2.2 Backlight input signal characteristics

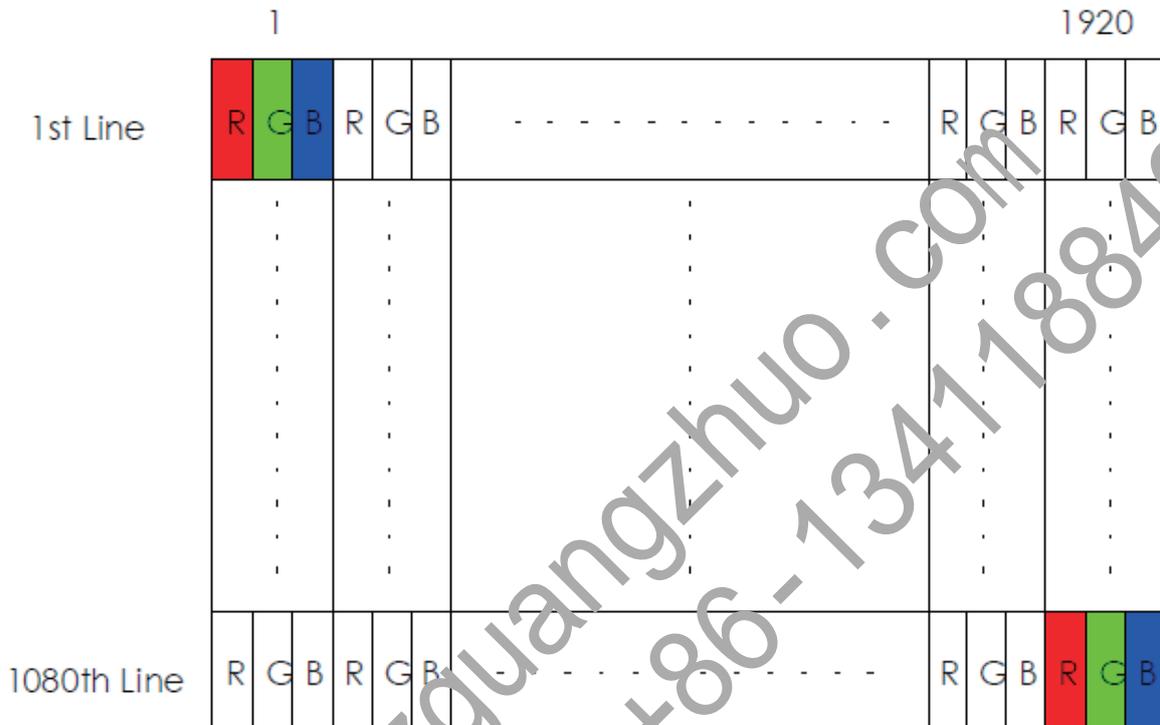
Parameter	Symbol	Min	Typ	Max	Units	Remark
LED Power Supply	VLED	6.0	12.0	21.0	[Volt]	Define as Connector Interface (Ta=25°C)
LED Enable Input High Level	VLED_EN	2.5	-	5.5	[Volt]	
LED Enable Input Low Level		-	-	0.5	[Volt]	
PWM Logic Input High Level	VPWM_EN	2.5	-	5.5	[Volt]	
PWM Logic Input Low Level		-	-	0.5	[Volt]	
PWM Input Frequency	FPWM	200	1K	10K	Hz	
PWM Duty Ratio	Duty	5	--	100	%	

Note 1 : Recommend system pull up/down resistor no bigger than 10kohm

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	SIN SHENG TERMINAL & MACHINE INC.
Type / Part Number	MSAK24025P30 or compatible
Mating Housing/Part Number	I-PEX 20453-030T-11 or compatible

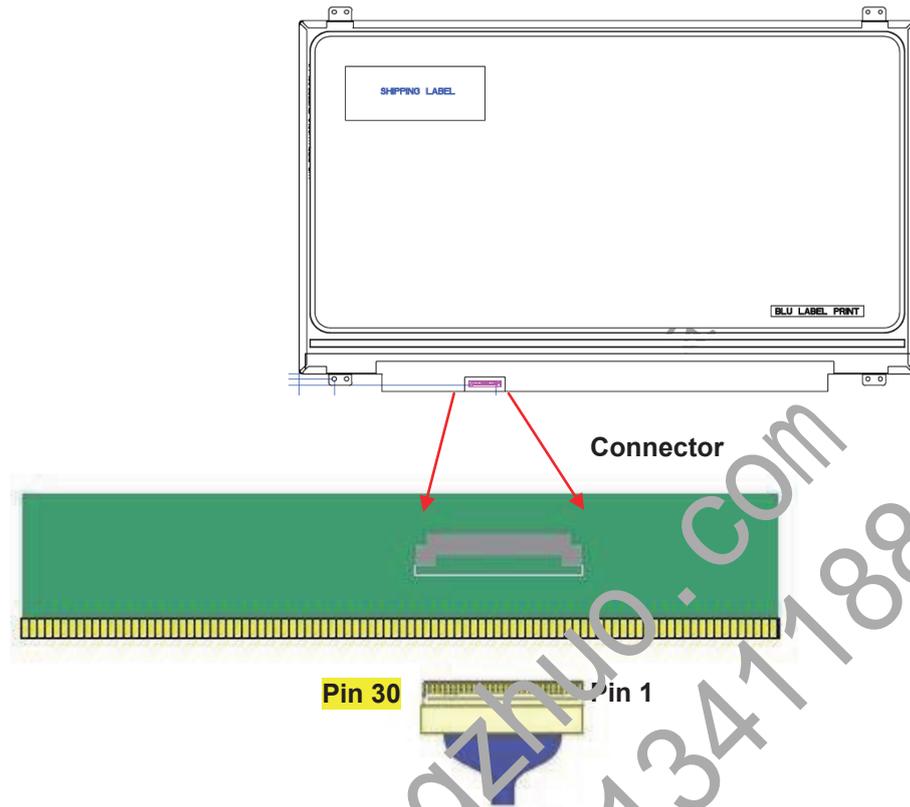
**6.2.2 Pin Assignment (2 Lane)**

PIN NO	Symbol	Function
1	NC	NC
2	H_GND	High Speed Ground
3	Lane1_N	Complement Signal Link Lane 1
4	Lane1_P	True Signal Link Lane 1
5	H_GND	High Speed Ground
6	Lane0_N	Comp Signal Link Lane 0
7	Lane0_P	True Signal Link Lane 0
8	H_GND	High Speed Ground
9	AUX_CH_P	True Signal Auxiliary Ch.
10	AUX_CH_N	Comp Signal Auxiliary Ch.
11	H_GND	High Speed Ground
12	LCD_VCC	LCD logic and driver power
13	LCD_VCC	LCD logic and driver power
14	LCD_Self_Test	LCD Panel Self Test Enable
15	LCD_GND	LCD logic and driver ground
16	LCD_GND	LCD logic and driver ground
17	HPD	HPD signal pin
18	BL_GND	Backlight_ground
19	BL_GND	Backlight_ground
20	BL_GND	Backlight_ground
21	BL_GND	Backlight_ground
22	BL_Enable	Backlight On / Off
23	BL_PWM_DIM	System PWM signal input
24	NC	NC
25	NC	NC
26	BL_PWR	Backlight power (6V~21V)
27	BL_PWR	Backlight power (6V~21V)
28	BL_PWR	Backlight power (6V~21V)
29	BL_PWR	Backlight power (6V~21V)
30	NC	NC

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

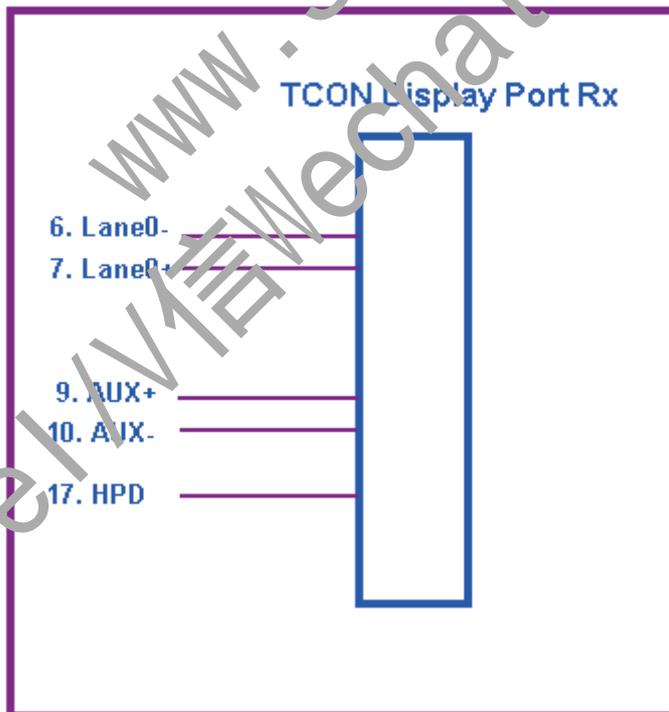
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Note1: Start from right side.

Note2: Input signals shall be low or High-impedance state when VDD is off.
Internal circuit of **eDP inputs** are as following.



6.3 Interface Timing

6.3.1 Timing Characteristics

For normal display, interface timings should match the 1920*1080 /60Hz manufacturing guide line timing.

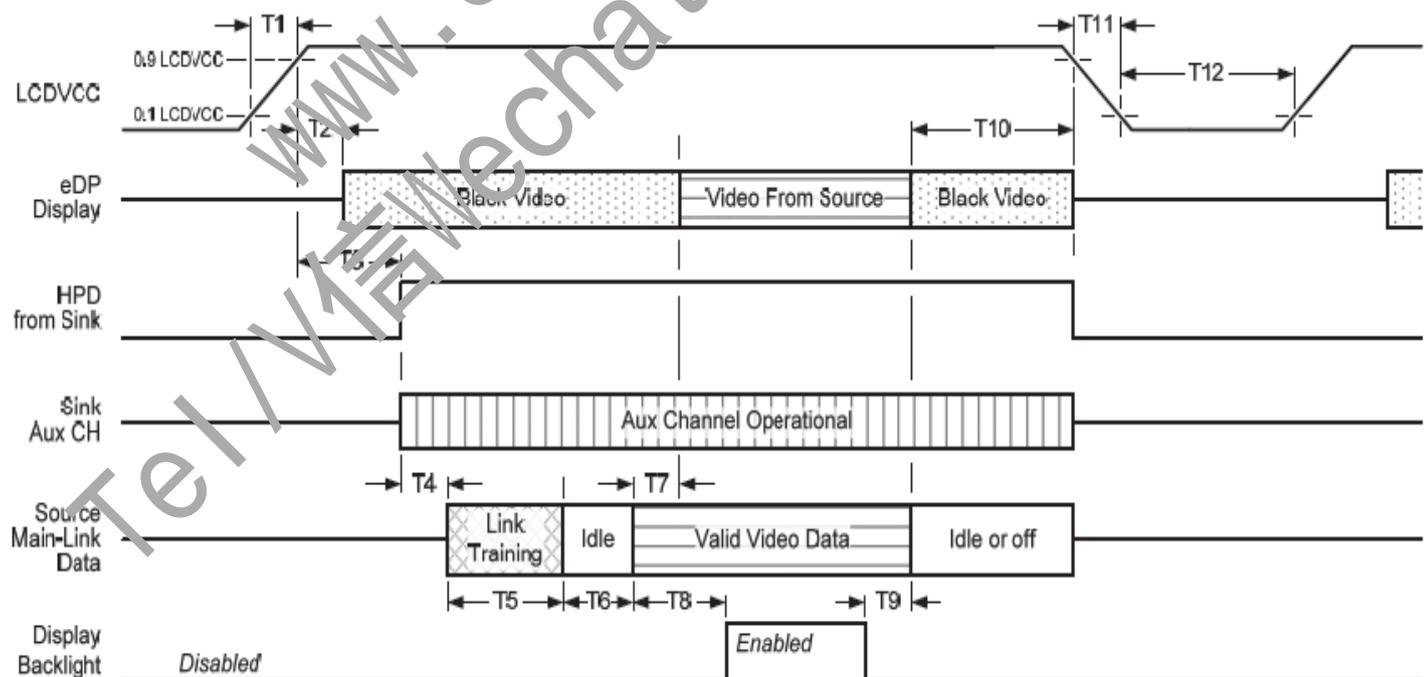
Parameter		Symbol	Min.	Typ.	Max.	Unit
Frame Rate		-	-	60	-	Hz
Clock frequency		1/ T _{clock}		143.6		MHz
Vertical Section	Period	T _V	1088	1116	1080+A	T _{Line}
	Active	T _{VD}	1080			
	Blanking	T _{VB}	8	36	A	
Horizontal Section	Period	T _H	2072	2140	1920+B	T _{clock}
	Active	T _{HD}	1920			
	Blanking	T _{HB}	152	220	B	

Note 1 : The above is as optimized setting

Note 2 : The maximum clock frequency = (1920+B)*(1080+A)*60<143MHz

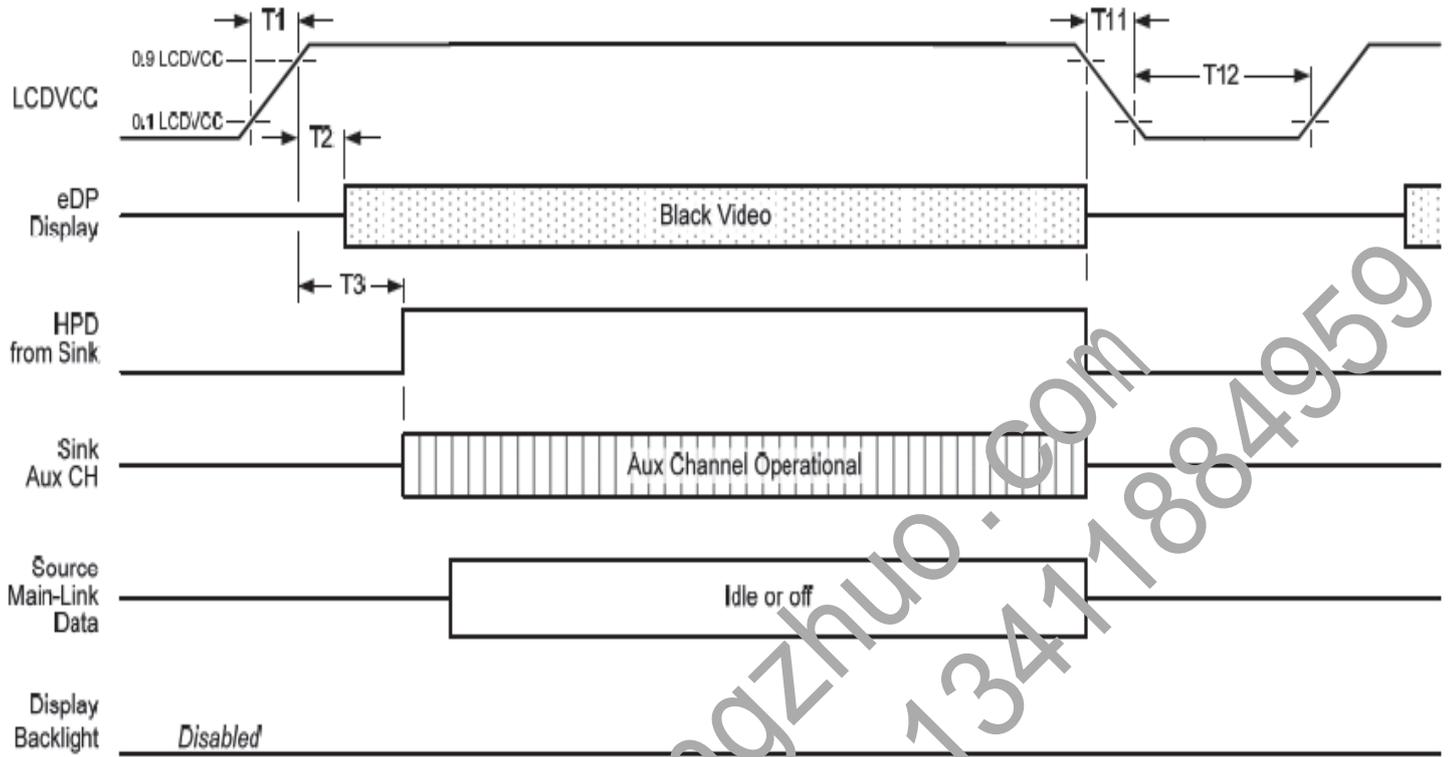
6.4 Power ON/OFF Sequence

Display Port panel power sequence:



Display port interface power up/down sequence, normal system operation

Display Port AUX_CH transaction only:



Display port interface power up/down sequence, AUX_CH transaction only



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Display Port panel power sequence timing parameter:

Timing parameter	Description	Reqd. by	Limits			Notes
			Min.	Typ.	Max.	
T1	power rail rise time, 10% to 90%	source	0.5ms		10ms	
T2	delay from LCDVDD to black video generation	sink	0ms		200ms	prevents display noise until valid video data is received from the source
T3	delay from LCDVDD to HPD high	sink	0ms		200ms	sink AUX_CH must be operational upon HPD high.
T4	delay from HPD high to link training initialization	source				allows for source to read link capability and initialize.
T5	link training duration	source				dependent on source link to read training protocol.
T6	link idle	source				Min accounts for required BS-Idle pattern. Max allows for source frame synchronization.
T7	delay from valid video data from source to video on display	sink	0ms		6ms	max allows sink validate video data and timing.
T8	delay from valid video data from source to backlight enable	source				source must assure display video is stable.
T9	delay from backlight disable to end of valid video data	source				source must assure backlight is no longer illuminated.
T10	delay from end of valid video data from source to power off	source	0ms		500ms	
T11	power rail fall time, 90% to 10%	source			10ms	
T12	power off time	source	500ms			

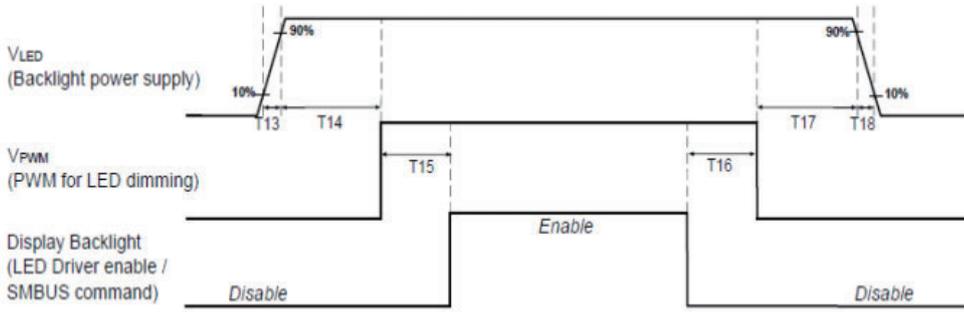
Note1: The sink must include the ability to generate black video autonomously. The sink must automatically enable black video under the following conditions:
 -upon LCDVDD power on (within T2 max)-when the "lvideostream_Flag" (VB-ID Bit 3) is received from the source (at the end of T9).

-when no main link data, or invalid video data, is received from the source. Black video must be displayed within 64ms (typ) from the start of either condition. Video data can be deemed invalid based on MSA and timing information, for example.

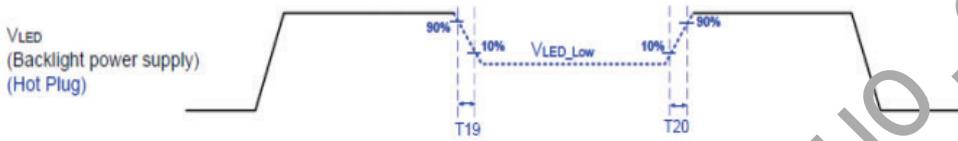
Note 2: The sink may implement the ability to disable the black video function, as described in Note 1, above, for system development and debugging purpose.

Note 3: The sink must support AUX_CH polling by the source immediately following LCDVDD power on without causing damage to the sink device (the source can re-try if the sink is not ready). The sink must be able to respond to an AUX_CH transaction with the time specified within T3 max.

Display Port panel B/L power sequence timing parameter:



Note : When the adapter is hot plugged, the backlight power supply sequence is shown as below.



	Min (ms)	Max (ms)
T13	0.5	10
T14	10	-
T15	0	-
T16	0	-
T17	10	-
T18	0.5	10
T19	1*	-
T20	1	-

Seamless change T19, T20 = 5xT_{PWM}*

*T_{PWM} = 1/f_{PWM} frequency

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= 60°C, Dry, 300h	
Low Temperature Operation	Ta= 0°C, 300h	
High Temperature Storage	Ta= 60°C, 35%RH, 300h	
Low Temperature Storage	Ta= -20°C, 50%RH, 250h	
Thermal Shock Test	Ta=-20°C to 60°C, Duration at 30 min, 100 cycles	
ESD	Contact : ±8 KV Air : ±15 KV	Note 1

Note 1: 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%

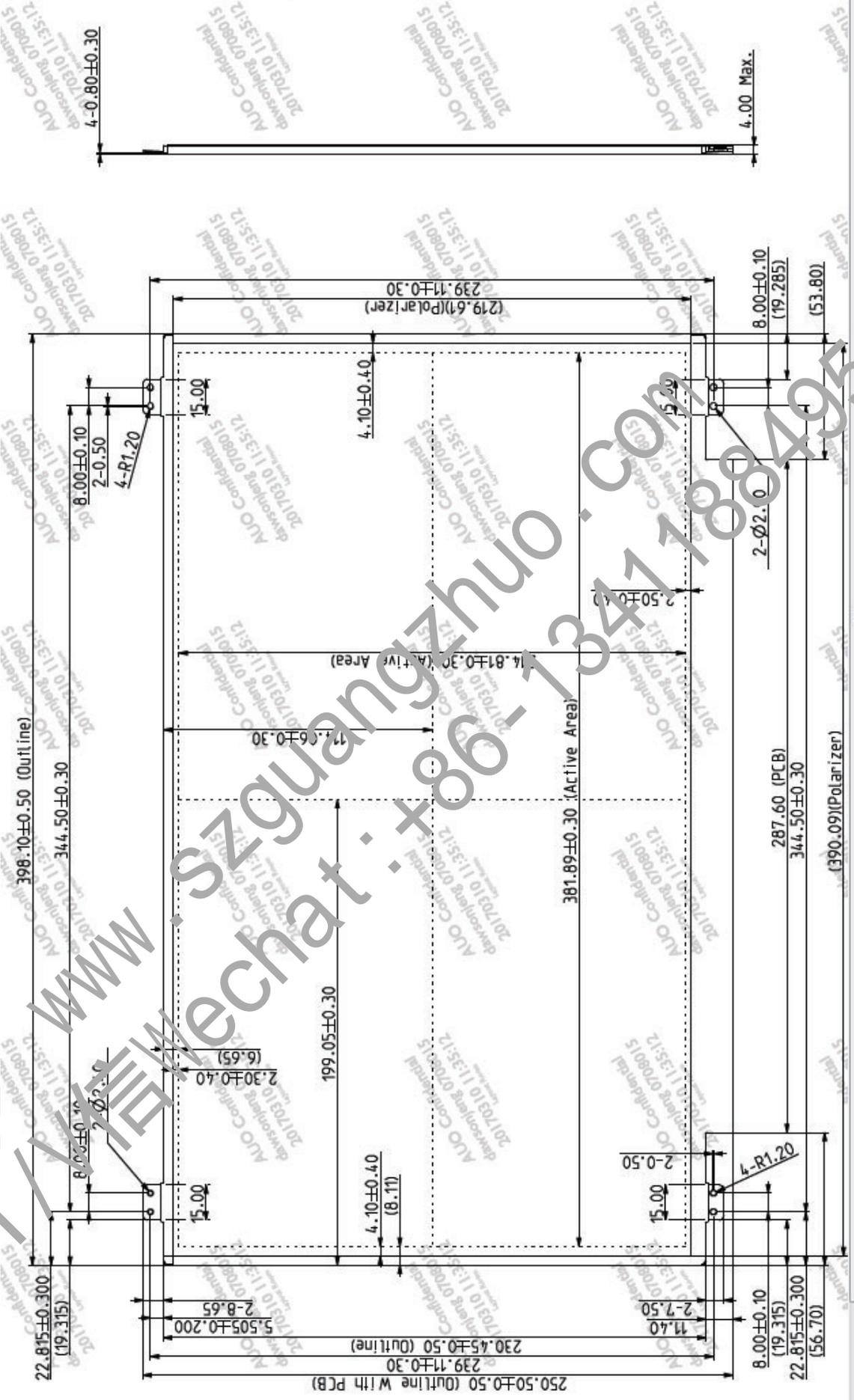


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8. Mechanical Characteristics

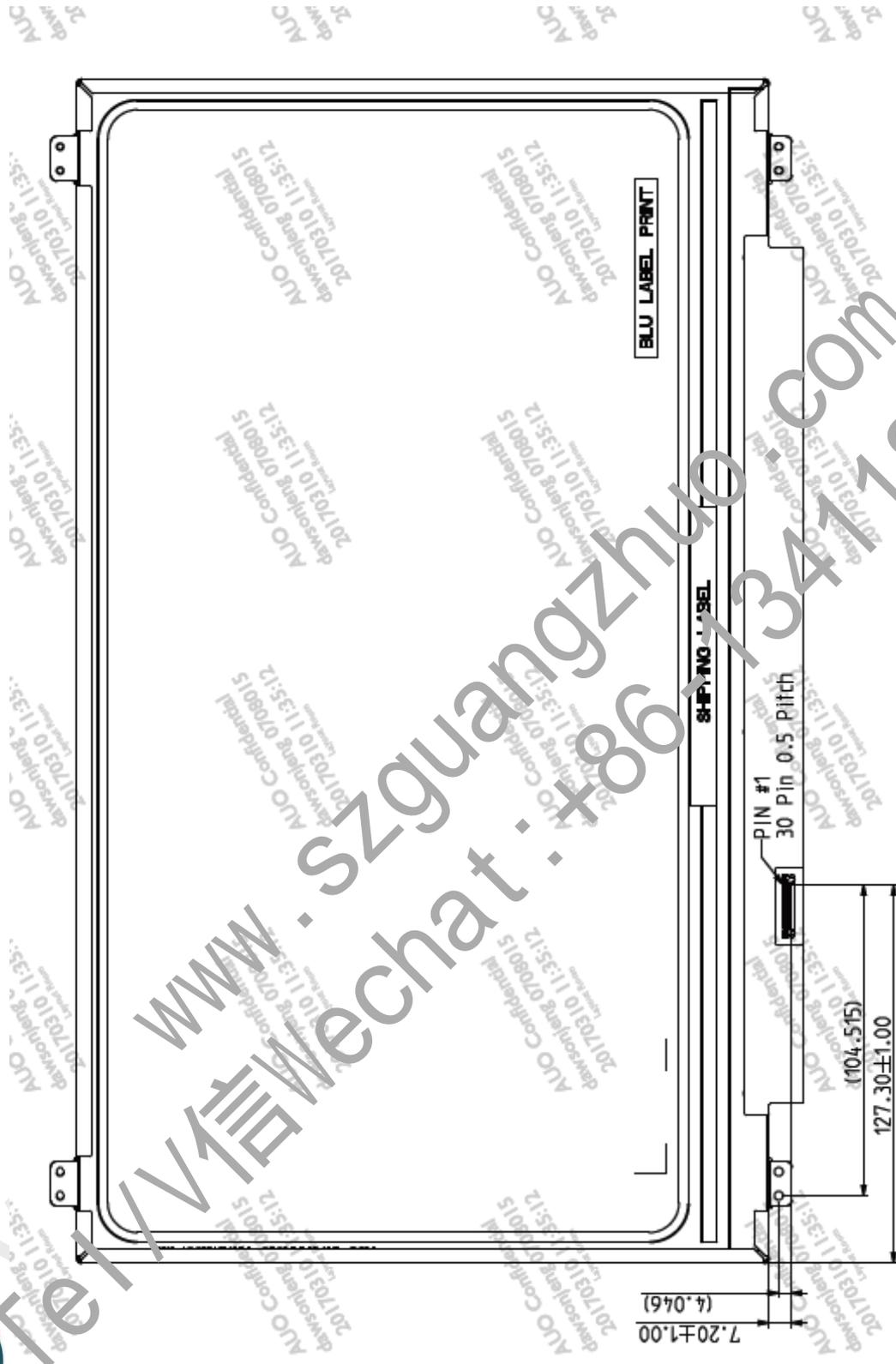
8.1 LCM Outline Dimension





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Note: Prevention IC damage, IC positions not allowed any overlap over these areas.



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AU OPTRONICS CORPORATION

9. Shipping and Package

9.1 Shipping Label Format



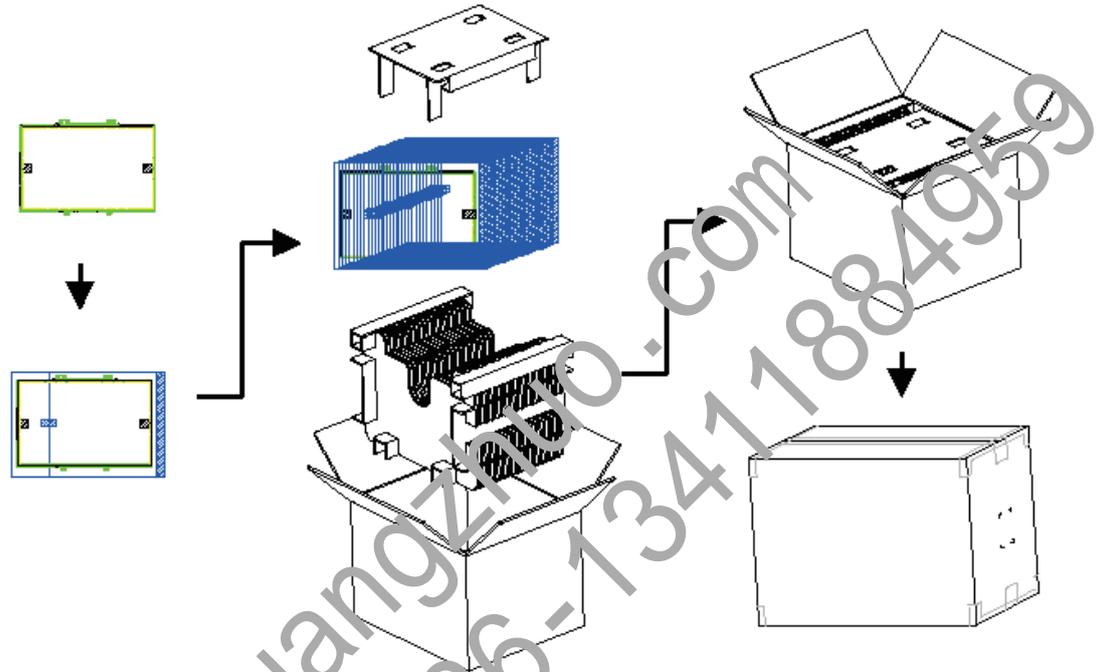
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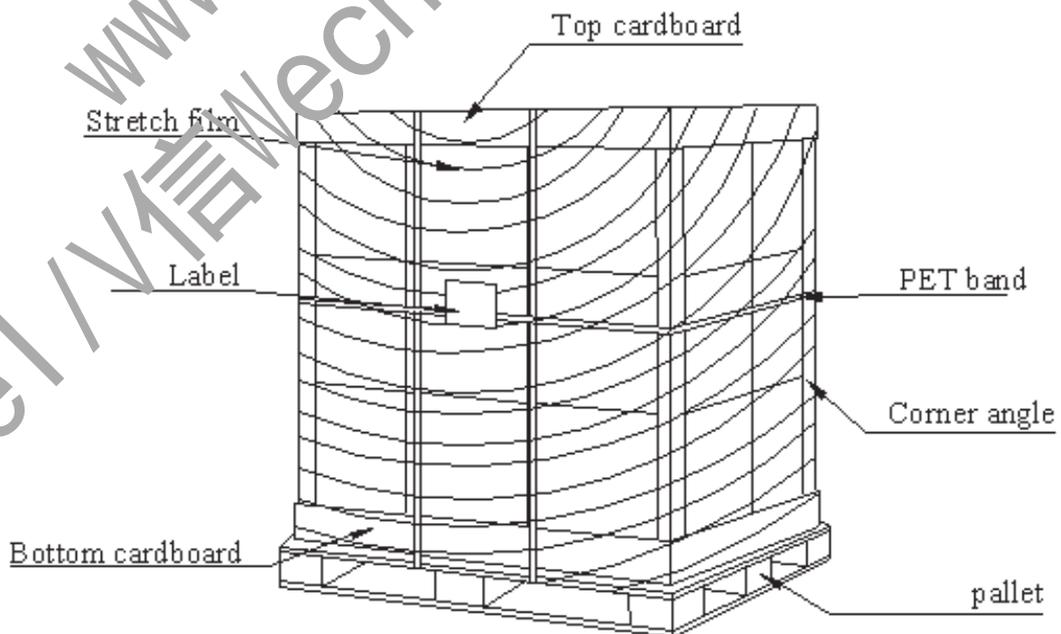
Product Specification

AU OPTRONICS CORPORATION

9.2 Carton Package



9.3 Shipping Package of Panelizing Sequence





Product Specification

AU OPTRONICS CORPORATION

10. Appendix:

10.1 EDID Description

B173HAN01 7 EDID Code

Address	FUNCTION	Value
HEX		HEX
00	Header	00
01		FF
02		FF
03		FF
04		FF
05		FF
06		FF
07		00
08	EISA Manuf. Code LSB	06
09	Compressed ASCII	A1
0A	Product Code	9D
0B	hex, LSB first	17
0C	32-bit ser #	00
0D		00
0E		00
0F		00
10	Week of manufacture	00
11	Year of manufacture	1B
12	EDID Structure Ver.	01
13	EDID revision #	04
14	Video input def. (digital I/P, non-TMDS, C/RGB)	A5
15	Max H image size (rounded to cm)	26
16	Max V image size (rounded to cm)	15
17	Display Gamma ($= \text{gamma} * 100 - 100$)	78
18	Feature support (no DPMS, Active OFF, RGB, tmg Blk#1)	02
19	Red/green low bits (Lower 2:2:2:2 bits)	59
1A	Blue/white low bits (Lower 2:2:2:2 bits)	D5
1B	Red x (Upper 8 bits)	A3
1C	Red y/ highER 8 bits	56
1D	Green x	52
1E	Green y	9C
1F	Blue x	26
20	Blue y	0C
21	White x	50
22	White y	54
23	Established timing 1	00
24	Established timing 2	00
25	Established timing 3	00
26	Standard timing #1	01
27		01
28	Standard timing #2	01



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29		01
2A	Standard timing #3	01
2B		01
2C	Standard timing #4	01
2D		01
2E	Standard timing #5	01
2F		01
30	Standard timing #6	01
31		01
32	Standard timing #7	01
33		01
34	Standard timing #8	01
35		01
36	Pixel Clock/10000 LSB	FA
37	Pixel Clock/10000 USB	37
38	Horz active Lower 8bits	80
39	Horz blanking Lower 8bits	DC
3A	HorzAct:HorzBlnk Upper 4:4 bits	70
3B	Vertical Active Lower 8bits	38
3C	Vertical Blanking Lower 8bits	24
3D	Vert Act : Vertical Blanking (upper 4:4 bit)	40
3E	HorzSync. Offset	10
3F	HorzSync.Width	10
40	VertSync.Offset : VertSync.Width	3E
41	Horz&Vert Sync Offset/Width Upper 2bits	00
42	Horizontal Image Size Lower 6bits	7D
43	Vertical Image Size Lower 8bits	D6
44	Horizontal & Vertical Image Size (upper 4:4 bits)	10
45	Horizontal Border <i>(zero for internal LCD)</i>	00
46	Vertical Border <i>(zero for internal LCD)</i>	00
47	Signal <i>(neg-intr, norm, no sync, sep sync, neg pol)</i>	18
48	Detailed timing/monitor	00
49	descriptor #2	00
4A		00
4B		00
4C		00
4D		00
4E		00
4F		00
50		00
51		00
52		00
53		00
54		00
55		00
56		00
57		00



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58		00
59		1A
5A	Detailed timing/monitor	00
5B	descriptor #3	00
5C		00
5D		FE
5E		00
5F	Manufacture	41
60	Manufacture	55
61	Manufacture	4F
62		0A
63		20
64		20
65		20
66		20
67		20
68		20
69		20
6A		20
6B		20
6C	Detailed timing/monitor	00
6D	descriptor #4	00
6E		00
6F		FE
70		00
71	Manufacture P/N	42
72	Manufacture P/N	31
73	Manufacture P/N	37
74	Manufacture P/N	33
75	Manufacture P/N	48
76	Manufacture P/N	41
77	Manufacture P/N	4E
78	Manufacture P/N	30
79	Manufacture P/N	31
7A	Manufacture P/N	2E
7B	Manufacture P/N	37
7C		20
7D		0A
7E	Extension Flag	00
7F	Checksum	ED