




## Product Specification

AU OPTRONICS CORPORATION

( ) Preliminary Specifications

( ✓ ) Final Specifications

Module	11.6" HD 16:9 Color TFT-LCD with LED Backlight design
Model Name	B116XTK01.1 (H/W:0A)
Note (  )	oTP-Lite Display

<table><tr><td>Customer</td><td>Date</td></tr><tr><td><hr/></td><td><hr/></td></tr><tr><td>Checked &amp; Approved by</td><td>Date</td></tr><tr><td><hr/></td><td><hr/></td></tr></table>	Customer	Date	<hr/>	<hr/>	Checked & Approved by	Date	<hr/>	<hr/>	<table><tr><td>Approved by</td><td>Date</td></tr><tr><td><u>Terry Chien</u></td><td><u>2015/07/10</u></td></tr><tr><td>Prepared by</td><td>Date</td></tr><tr><td><u>HuiwenHuang</u></td><td><u>2015/07/10</u></td></tr></table>	Approved by	Date	<u>Terry Chien</u>	<u>2015/07/10</u>	Prepared by	Date	<u>HuiwenHuang</u>	<u>2015/07/10</u>
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Note: This Specification is subject to change without notice.	NBBU Marketing Division AU Optronics corporation																



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### Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2015/04/15	All	First Edition for Customer		
0.2 2015/05/11	5	Power consumption = TBD	Power consumption = 2.7 W	
	14	PDD= TBD, IDD= TBD	PDD= 1.1, IDD= 333	
1.0				



### 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.
- 10) 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.
- 11) 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.
- 12) 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 electronic breakdown.

## 2. General Description

B116XTK01.1 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 HD, 1366(H) x 768(V) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are eDP interface compatible.

B116XTK01.1 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]	293.8			
Active Area	[mm]	256.13 x 144.0			
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		Normally White			
White Luminance (ILED= 24 mA)	[cd/m²]	200 typ(5 points average) (Total Solution) 170 min (5 points average) (Total Solution)			
Luminance Uniformity		1.25 max (5 points)			
Contrast Ratio		400:1 typ			
Response Time	[ms]	8 typ/16 Max			
Nominal Input Voltage VDD	[Volt]	+3.3 typ			
Power Consumption	[Watt]	2.7 (Include Logic and BLU power)			
Weight	[Grams]	210 max			
Physical Size (Include bracket)	[mm]		Min.	Typ.	Max.
		Length	277.5	278.0	278.5
		Width	167.5	168.0	168.5
Thicknesssss		Thickness	3.0 (Panel side) 3.2 (PCBA side)		
Electrical Interface		1 Lane eDP			
Glass Thickness	[mm]	0.4			
Surface Treatment		Anti-Glare			
Support Color		262K colors ( RGB 6-bit )			



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Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

### 2.2 General Touch Specification

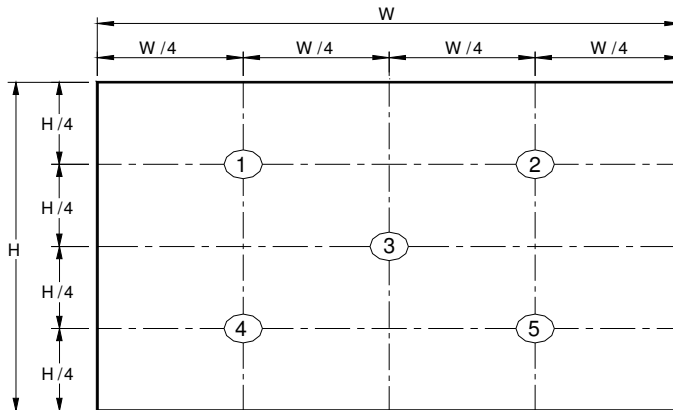
Items	Unit	Specifications
Type of Touch Sensor		Projective Capacitive (on cell)
Panel Size		11.6''
TP Active Area	mm	257.550 x 146.160
Interface		USB
Report Rate	Hz	Follow win8 – 100Hz
Multi-Touch Point		10 points
Input method		Finger
Touch panel sensor IC		Raydium
Channel		51 x 29
Distance between 2 point	mm	Follow win8
Surface hardness	H	3 (note 1)
Surface Treatment		NA
TP F/W version		1.5.4.6.10.3.4
Support OS		Window 8.1

## 2.3 Optical Characteristics

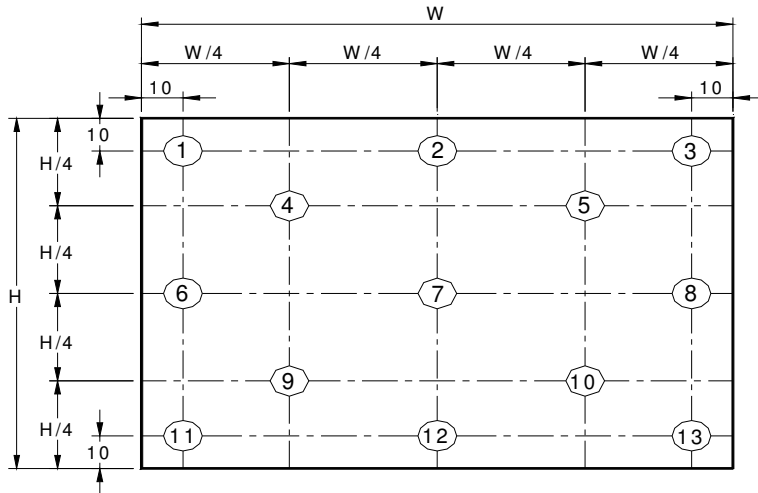
The optical characteristics are measured under stable conditions at 25°C (Room Temperature) :

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit	Note
White Luminance ILED=24 mA			5 points average	170	200	-	cd/m²	1, 4, 5.
Viewing Angle		$\theta_R$	Horizontal (Right) CR = 10 (Left)	40	45	-	degree	4, 9
		$\theta_L$		40	45	-		
		$\psi_H$	Vertical (Upper) CR = 10 (Lower)	10	15	-		
$\psi_L$	30	35		-				
Luminance Uniformity		$\delta_{5P}$	5 Points	-	-	1.25		1, 3, 4
Luminance Uniformity		$\delta_{13P}$	13 Points	-	-	1.60		2, 3, 4
Contrast Ratio		CR		-	400	-		4, 6
Cross talk		%		-	-	4		4, 7
Response Time		T <sub>RT</sub>	Rising + Falling	-	8	16		
Color / Chromaticity Coodinates	Red	R <sub>x</sub>	CIE 1931	0.529	0.559	0.589		4
		R <sub>y</sub>		0.309	0.339	0.369		
	Green	G <sub>x</sub>		0.308	0.338	0.368		
		G <sub>y</sub>		0.539	0.569	0.599		
	Blue	B <sub>x</sub>		0.131	0.161	0.191		
		B <sub>y</sub>		0.104	0.134	0.164		
	White	W <sub>x</sub>		0.283	0.313	0.343		
		W <sub>y</sub>		0.299	0.329	0.359		
	NTSC			%		-		

**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

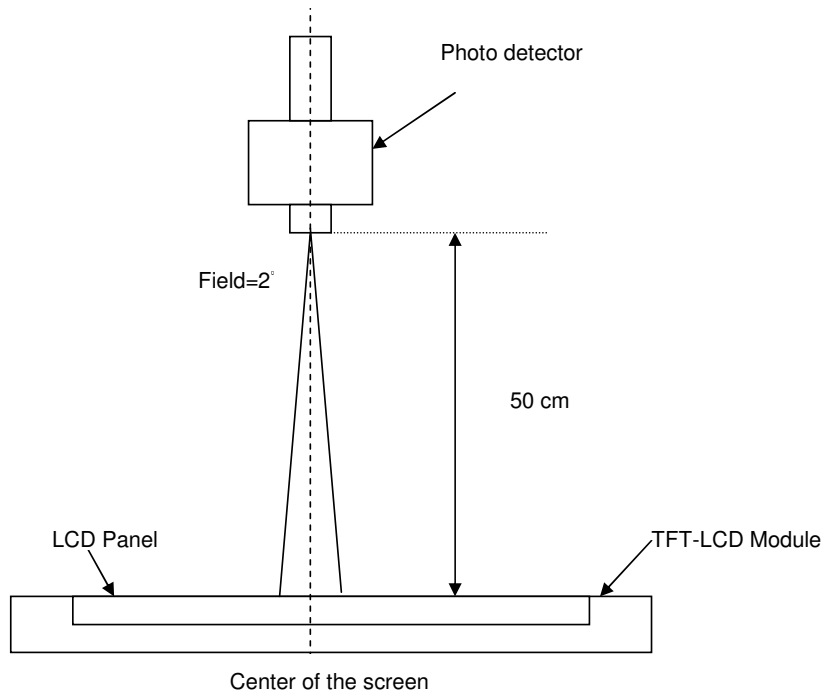
$$\delta_{W5} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

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



**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.

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

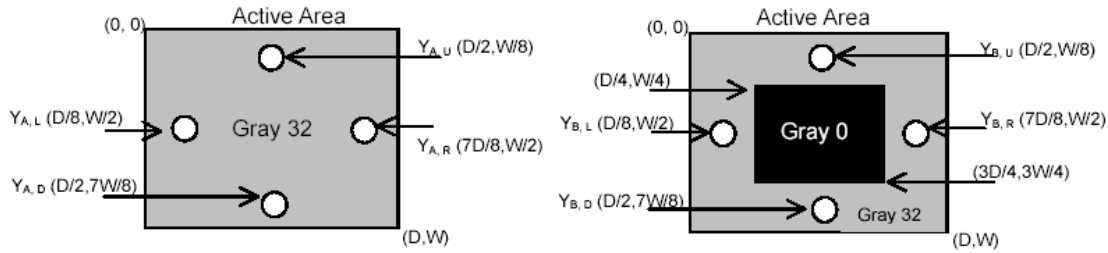
**Note 7 :** Definition of Cross Talk (CT)

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

Where

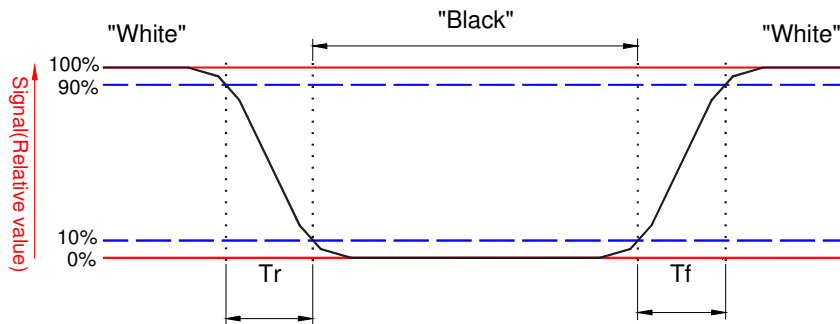
$Y_A$  = Luminance of measured location without gray level 0 pattern (cd/m<sup>2</sup>)

$Y_B$  = Luminance of measured location with gray level 0 pattern (cd/m<sup>2</sup>)



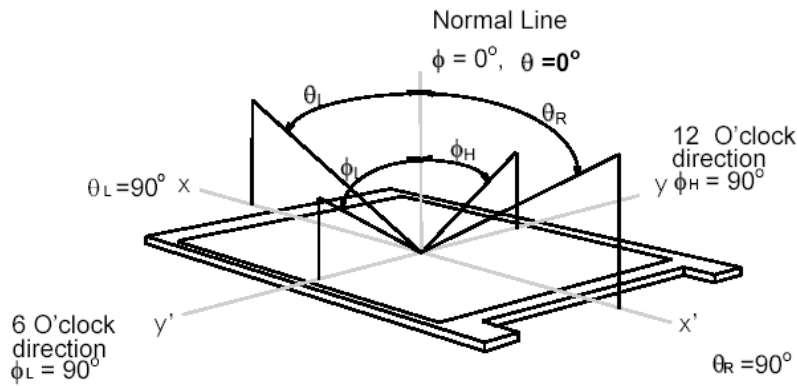
**Note 8:** Definition of response time:

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.



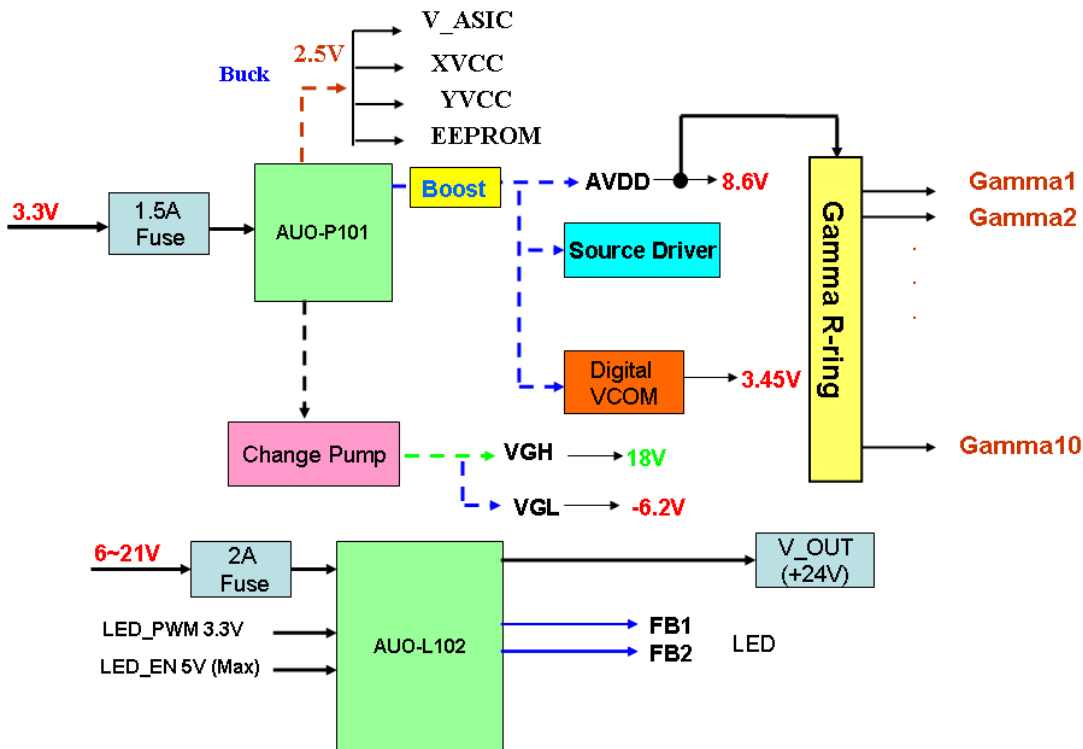
## Note 9. Definition of viewing angle

Viewing angle is the measurement of contrast ratio  $\geq 10$ , at the screen center, over a  $180^\circ$  horizontal and  $180^\circ$  vertical range (off-normal viewing angles). The  $180^\circ$  viewing angle range is broken down as follows;  $90^\circ$  ( $\theta$ ) horizontal left and right and  $90^\circ$  ( $\phi$ ) 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 40 Pin (One CH/connector Module)



註解 [V1]: 請與 RD 確認

## 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	Vin	-0.3	+4.0	[Volt]	Note 1,2

### 4.2 Absolute Ratings of Touch Sensor

Item	Symbol	Min	Max	Unit	Conditions
Touch Sensor Power Supply (Touch IC Unit)	Vin	3.0	3.6	[Volt]	
Touch Sensor Power ripple	VTSP-Ripple	-	100	[mV] p-p	

### 4.3 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit	Conditions
Operating	TOP	0	+50	[°C]	Note 4
Operation	HOP	5	95	[%RH]	Note 4
Storage	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

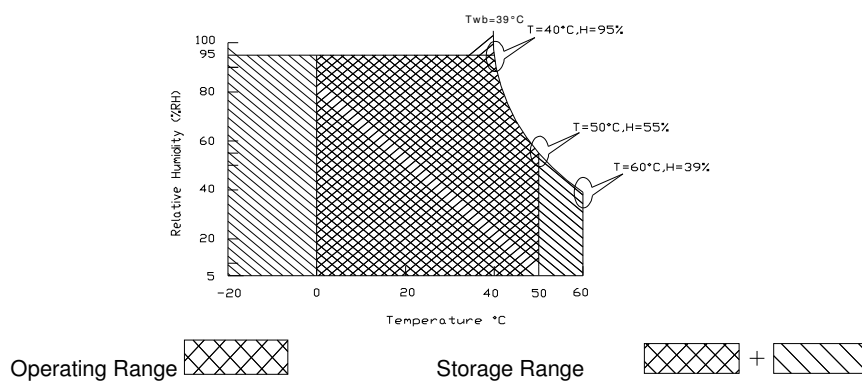
Note 3: LED specification refer to section 5.2

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)



## 5. Electrical Characteristics

### 5.1 TFT LCD Module

#### 5.1.1 Power Specification

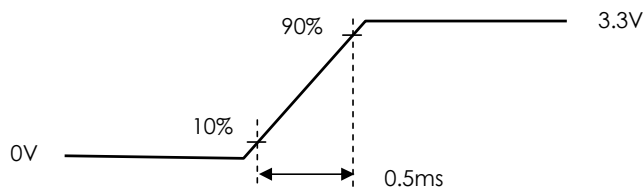
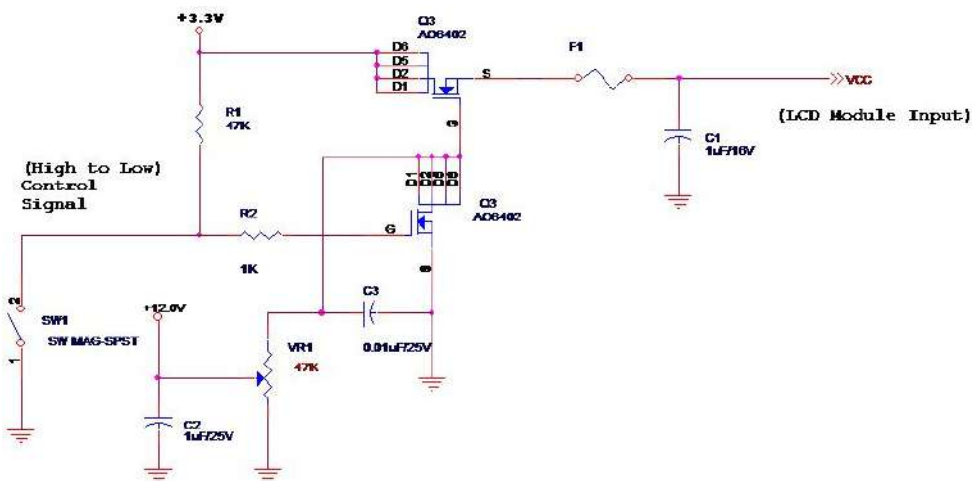
Input power specifications are as follows;

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

Symble	Parameter	Min	Typ	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	-		1.1	[Watt]	Note 1
IDD	IDD Current	-		333	[mA]	Note 1
IRush	Inrush Current	-	-	2000	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	100	[mV] p-p	

Note 1 : Maximum Measurement Condition : Mosaic Pattern at 3.3V driving voltage. ( $P_{max}=V_{3.3} \times I_{Black}$ )

Note 2 : Measure Condition



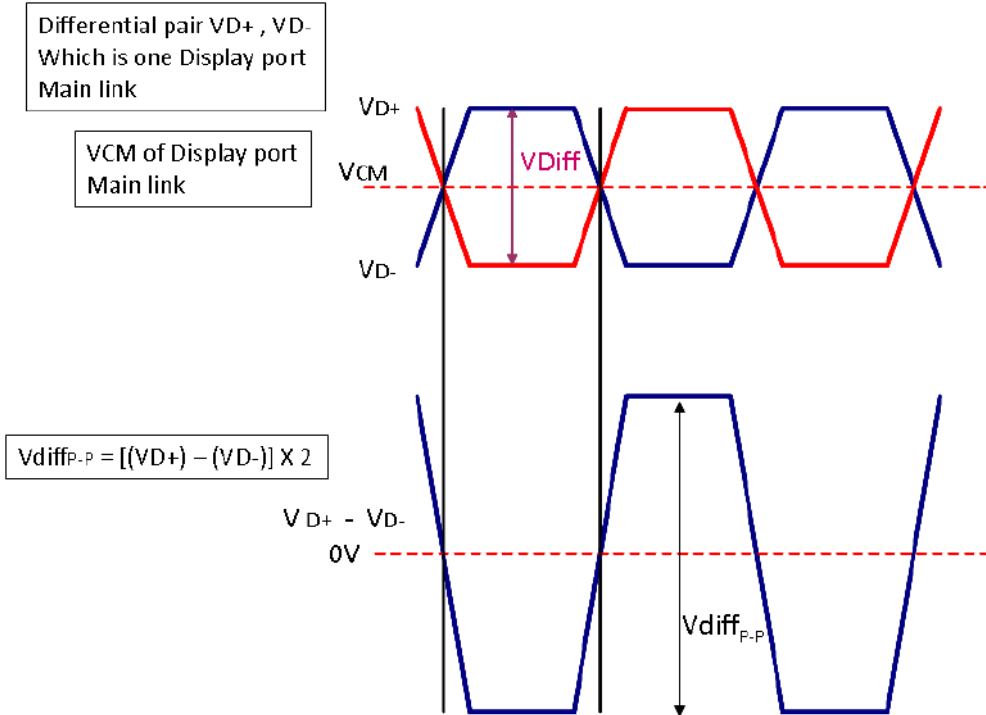
Vin rising time

## 5.1.2 Signal Electrical Characteristics

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

Signal electrical characteristics are as follows;

### Display Port main link signal:

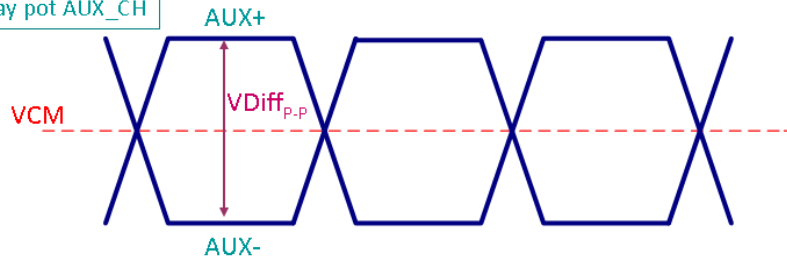


Display port main link					
		Min	Typ	Max	unit
VCM	RX input DC Common Mode Voltage		0		V
VdiffP-P	Peak-to-peak Voltage at a receiving Device	100		1320	mV

Follow as VESA display port standard V1.1a

## Display Port AUX\_CH signal:

Differential AUX+ , AUX-  
Which is Display port AUX\_CH



Display port AUX_CH					
		Min	Typ	Max	unit
VCM	AUX DC Common Mode Voltage		0		V
VDiff <sub>P-P</sub>	AUX Peak-to-peak Voltage at a receiving Device	0.4	0.6	0.8	V

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	-	-	1.6	[Watt]	(Ta=25°C), Note 1 Vin=12V
LED Life-Time	N/A	15,000	-	-	Hour	(Ta=25°C), Note 2 If=24mA

**Note 1:** Calculator value for reference  $P_{LED} = V_F$  (Normal Distribution) \*  $I_F$  (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 (Note 1)	6.0 (Note 2)	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		-	-	0.8	[Volt]	
PWM Logic Input High Level	VPWM_EN	2.5	-	5.5	[Volt]	
PWM Logic Input Low Level		-	-	0.8	[Volt]	
PWM Input Frequency	FPWM	200	1K	10K	Hz	
PWM Duty Ratio	Duty	1 (Note 3)	--	100	%	

**註解 [V2]:**  
This is the general spec.. If any  
special request, please consult  
with PM team leader

**Note 1 :** Recommended system pull up/down resistor no bigger than 10kohm.

**Note 2 :** Measured in panel VIN

**Note 3 :** If the PWM duty ratio(min) is set between 5% to 1% , the PWM input frequency should be set below 1KHz . The brightness-duty characteristic might not be able to keep in it's linearity if the dimming control is operated in 1% to 5% range.



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### 5.3 Touch Sensor Power Consumption

Items	Symbol	Specifications			Unit	Notes
		Min.	Typ.	Max.		
Touch Panel Power Supply (Touch IC Unit)	VDD	-	3.3	-	V	
	Pvtsp	-	190	-	mW	Active mode
	Pvtsp	-	35	-	mW	Idle Mode
	Pvtsp	-	0	-	mW	Sleep Mode



## 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 or compatible
Type / Part Number	20455-040E-12R or compatible
Mating Housing /Part Number	20453-040T-01 or compatible

### 6.2.2 Pin Assignment

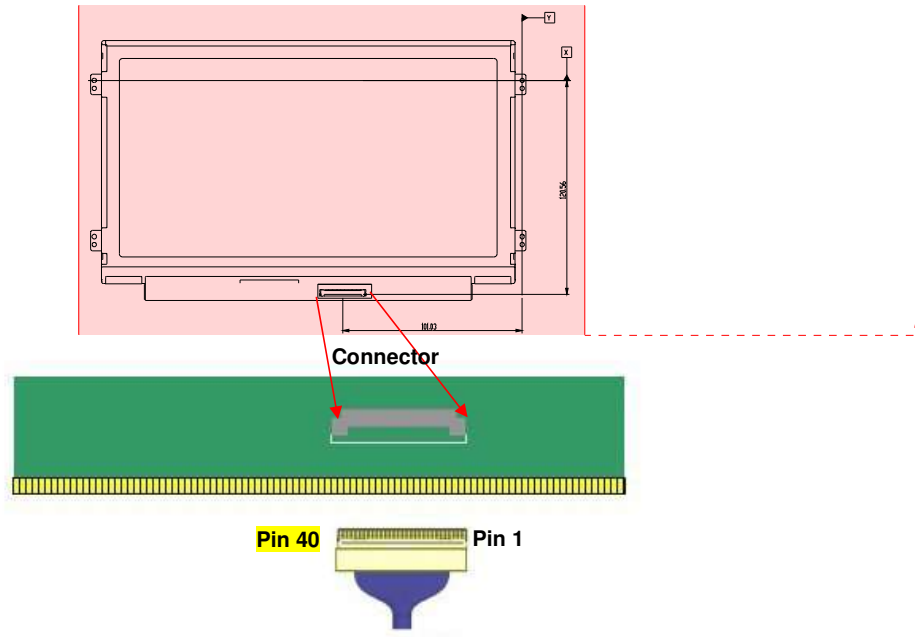
eDP lane is a differential signal technology for LCD interface and high speed data transfer device.

PIN NO	Symbol	Function
1	NC	No connect
2	H_GND	High Speed Ground
3	NC	No connect
4	NC	No connect
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	No connect
25	NC	No connect
26	NC	No connect
27	BL_PWR	Backlight power
28	BL_PWR	Backlight power
29	BL_PWR	Backlight power
30	NC	No connect
31	TP_D-	USB Data- for Touch
32	TP_D+	USB Data+ for Touch
33	GND	Ground-Shield
34	VTSP	Touch panel power supply (5V for USB)
35	VTSP	Touch panel power supply (5V for USB)

36	NC/TP_EN (10pin CNT) NC (8pin CNT)	No Connection (Reserve for Touch function enable)
37	TP_CLK	NC for USB input
38	TP_Data	NC for USB input
39	INT	NC for USB input
40	RST	NC for USB input

Note1 : Start from right side

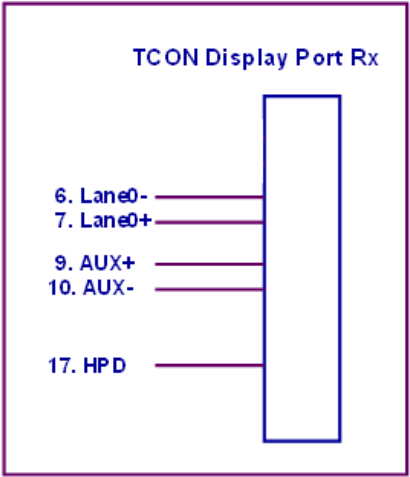
Note2 : Input signals shall be low or High-impedance state when VDD is off.



註解 [V3]: If Wedge Type, please delete the right figure  
If Flat/Ultra Slim Type, please replace the left figure with right figure (need to enlarge)

**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

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

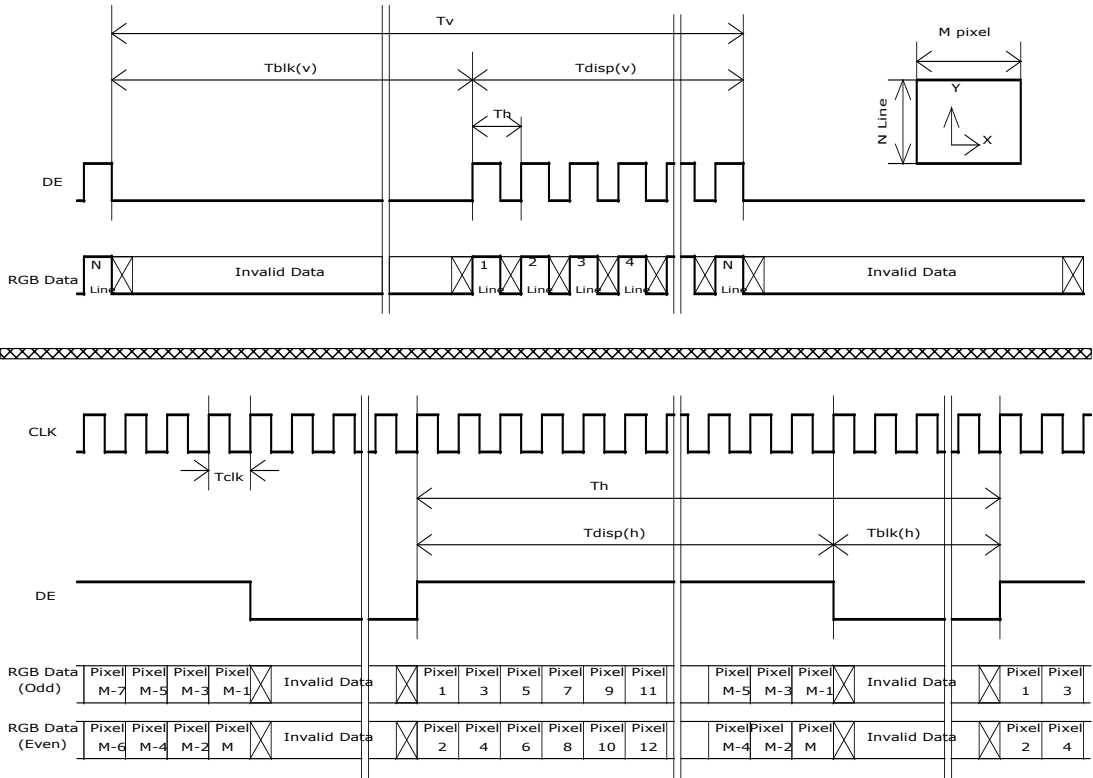
註解 [V4]: This the HD resolution setting. If other resolution required, please depends on RD suggestion and consult with PM team leader

Parameter		Symbol	Min.	Typ.	Max.	Unit
Frame Rate		-	-	60	-	Hz
Clock frequency		1/ T <sub>Clock</sub>	66.9	72	80	MHz
Vertical Section	Period	T <sub>V</sub>	788	824	768+A	T <sub>Line</sub>
	Active	T <sub>VD</sub>	768			
	Blanking	T <sub>VB</sub>	20	56	A	
Horizontal Section	Period	T <sub>H</sub>	1416	1456	1366+B	T <sub>Clock</sub>
	Active	T <sub>HD</sub>	1366			
	Blanking	T <sub>HB</sub>	50	90	B	

Note 1: DE mode only

Note 2: The maximum clock frequency = (1366+B)\*(768+A)\*60 < 80MHz

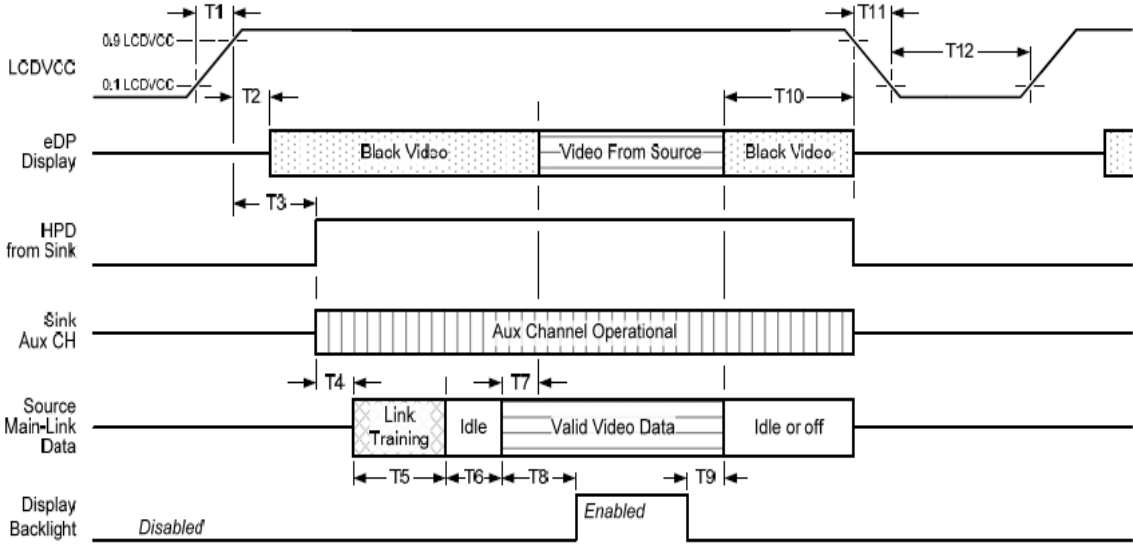
6.3.2 Timing diagram



6.4 Power sequence

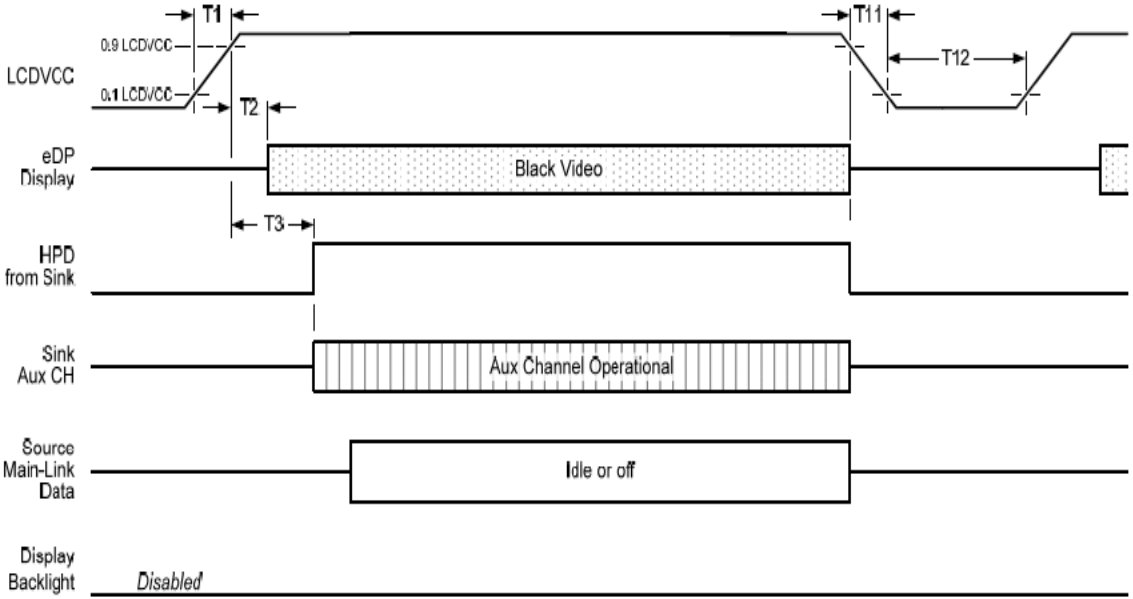
Power on/off sequence is as follows. Interface signals and LED on/off sequence are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off.

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

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				dependant 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		50ms	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:

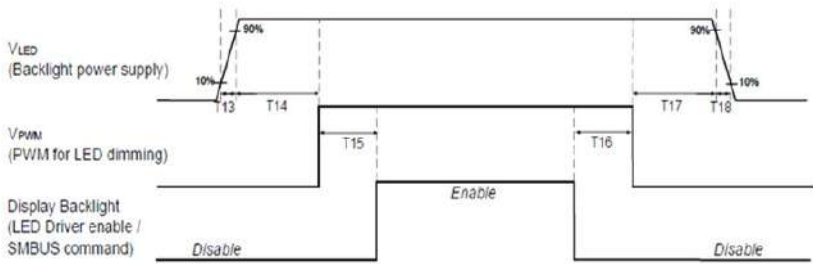
- upon LCDVDD power on (within T2 max)-when the "Novideostream\_Flag" (VB-ID Bit 3) is received from the source (at the end of T9).
- when no main link data, or invalid video data, is received from the source. Black video must be displayed within 64ms (typ) from the start of either condition. Video data 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.

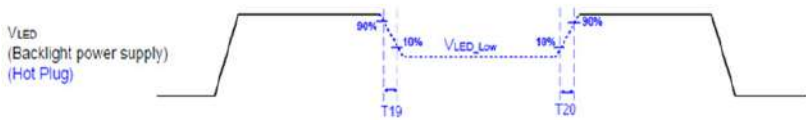
**Note 3:** The sink must support AUX\_CH polling by the source immediately following LCDVDD power on without causing damage to the sink device (the source can re-try if the sink is not ready). The sink must be able to respond to an AUX\_CH transaction with the time specified within T3 max.



Display Port panel B/L power sequence timing parameter:



Note : When the adapter is not plugged, the backlight power supply sequence is shown as below



	Min (ms)	Max (ms)
T13	0.5	10
T14	10	-
T15	10	-
T16	10	-
T17	10	-
T18	0.5	10
T19	1 <sup>*</sup>	-
T20	1 <sup>*</sup>	-

Seamless change: T19/T20 = 5xT<sub>PWM</sub><sup>\*</sup>  
<sup>\*</sup>T<sub>PWM</sub> = 1/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

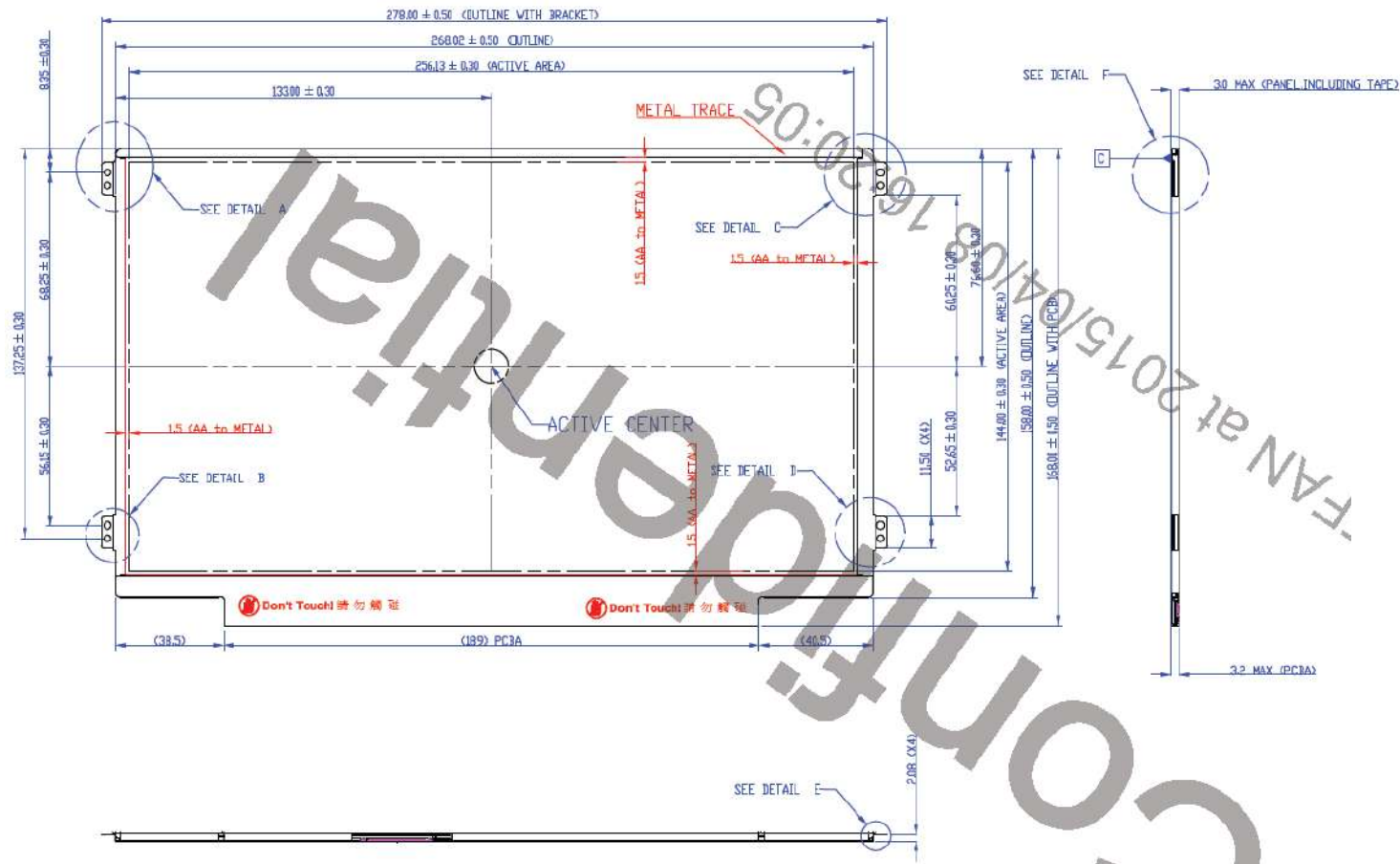
Items	Required Condition	Note
Temperature Humidity Bias	Ta= 40°C , 90%RH, 300h	
High Temperature Operation	Ta= 50°C, Dry, 300h	
Low Temperature Operation	Ta= 0°C , 300h	
High Temperature Storage	Ta= 60°C, 35%RH, 300h	
Low Temperature Storage	Ta= -20°C , 50 % RH ,250h	
Thermal Shock Test	Ta=-20°C to 60°C , Duration at 30min,100cycles	
ESD	Contact : ±8 KV Air : ±15 KV	Note 1

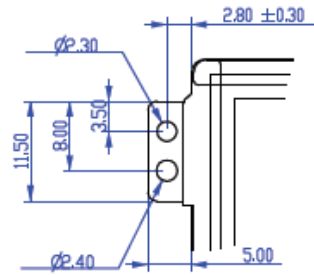
**Note1:** According to EN 61000-4-2 , ESD class B: Some performance degradation allowed. Self-recoverable.

No data lost, No hardware failures.

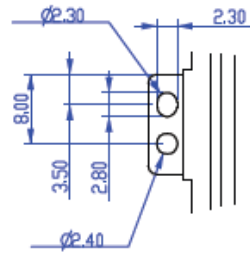
**Remark:** MTBF (Excluding the LED): 30,000 hours with a confidence level 90%

### 8.1.1 Standard Front View

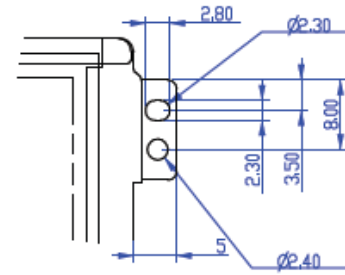
B116XTK01.1 Document Version :1.0



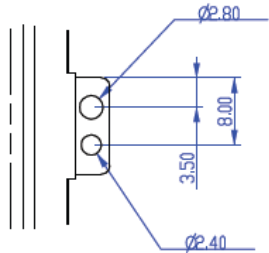
DETAIL A  
SCALE 2,000



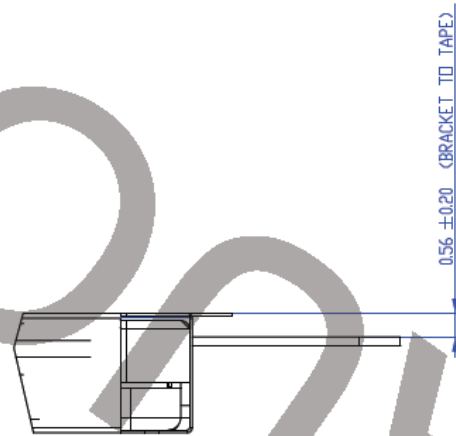
DETAIL B  
SCALE 2,000



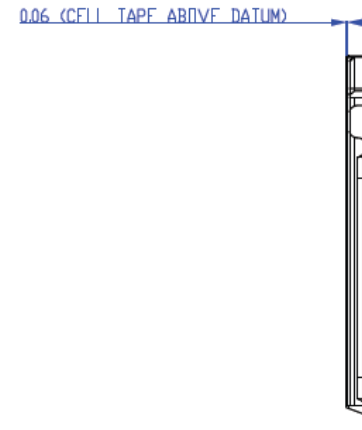
DETAIL C  
SCALE 2,000



DETAIL D  
SCALE 2,000

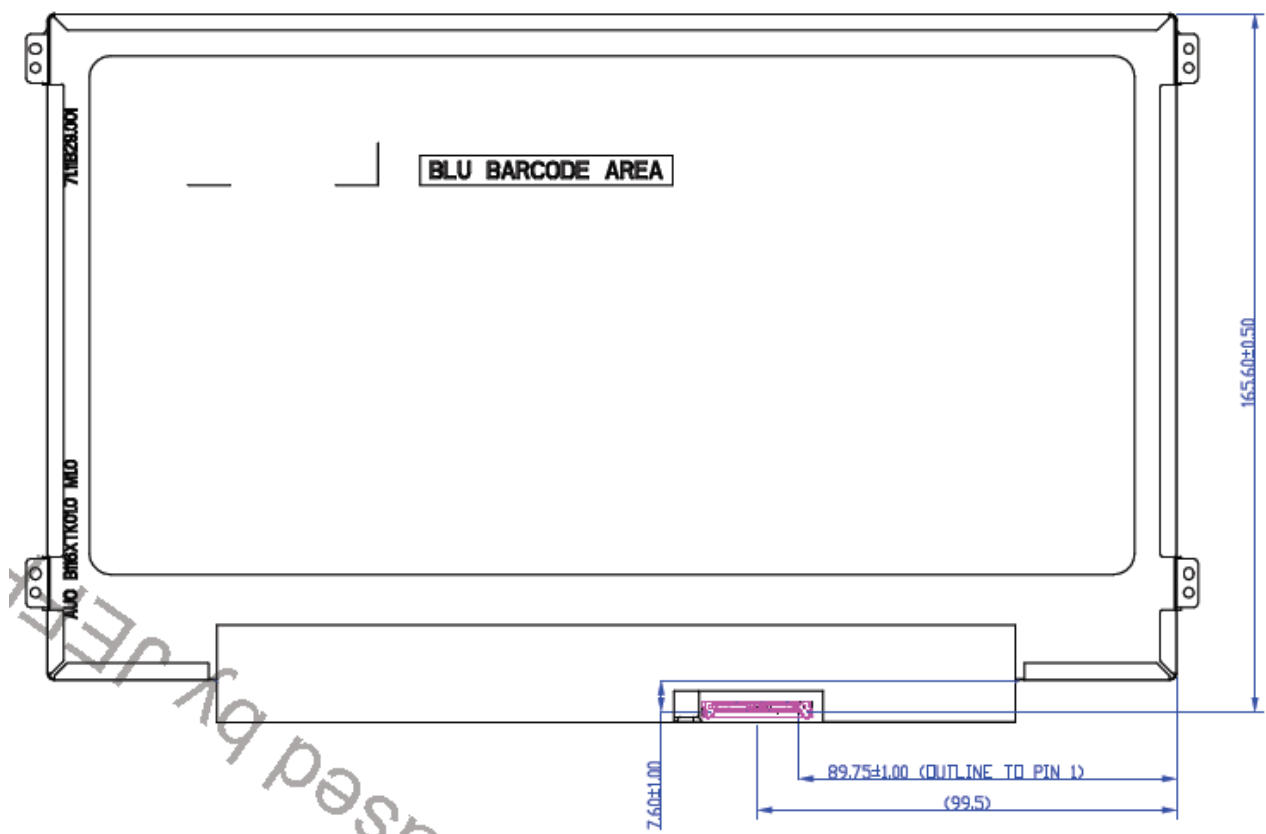


DETAIL E  
SCALE 10,000



DETAIL F  
SCALE 5,000

8.1.2 Standard Rear View



9. Shipping and Package


9.1 Shipping Label Format

  
XXXXXXXXXXXXX-XS01XX

  
B116XTK01.1

Manufactured YY/WW  
Model No: B116XTK01.1  
AU Optronics  
MADE IN CHINA (S01)

H/W: 0A F/W: 1


9.2 Packing Label Format

AU Optronics

QTY : 48

RoHS



MODEL NO : B116XTK01.1

PART NO : 97.11B29.100

CUSTOMER NO :

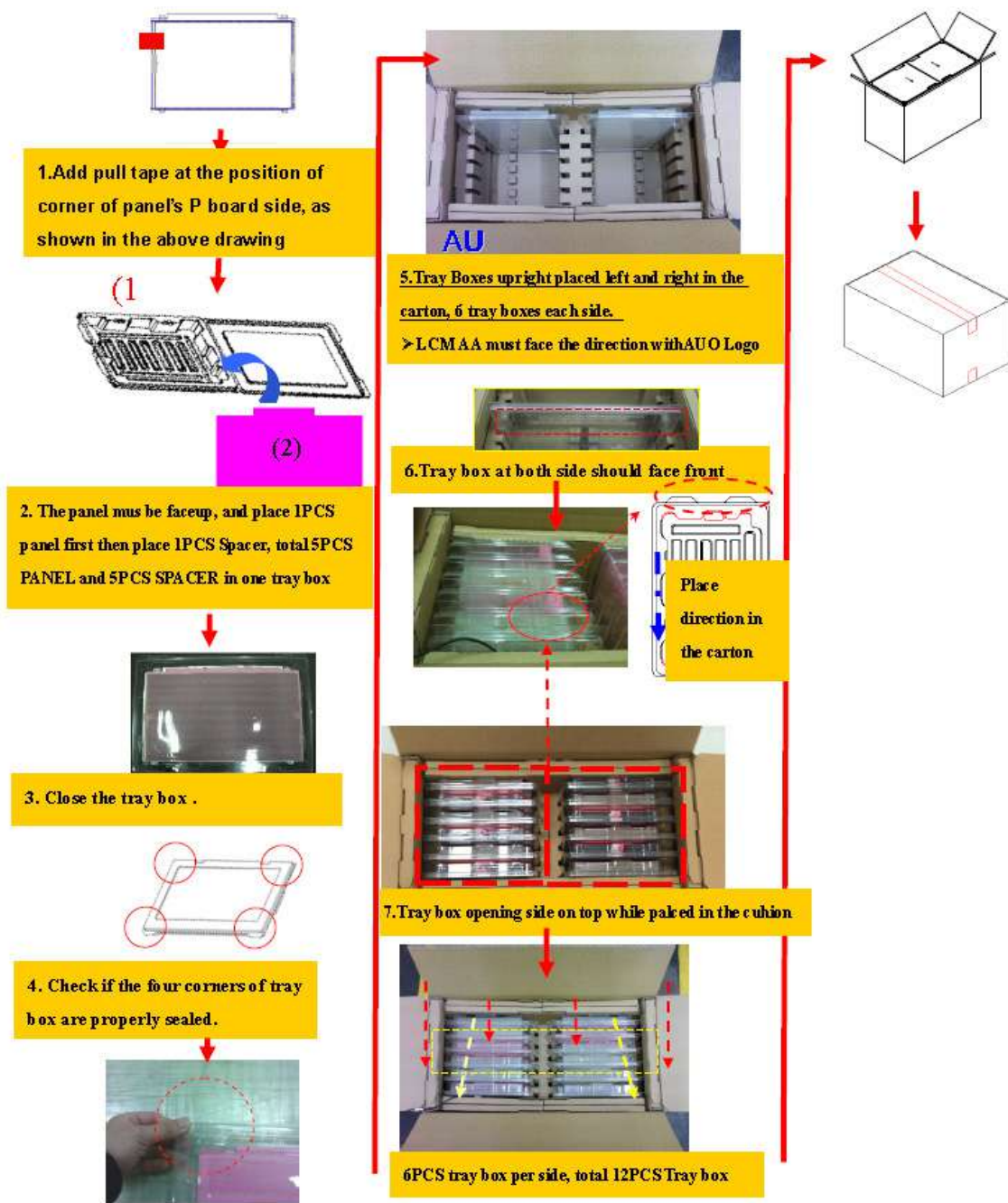
CARTON NO :



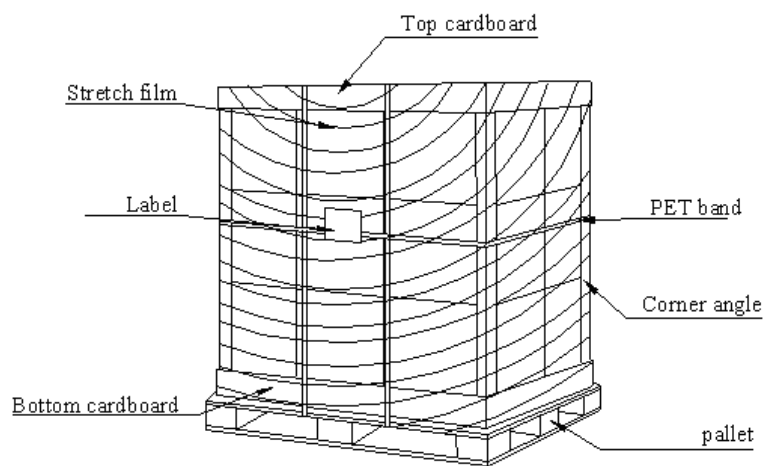
Made in China

\*ZS0102-1362000002\*

### 9.3 Carton Package



9.4 Shipping Package of Palletizing Sequence





10. 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	5C	01011100	92	
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	00	00000000	0	
11	Year of manufacture	19	00011001	25	
12	EDID Structure Ver.	01	00000001	1	
13	EDID revision #	04	00000100	4	
14	Video input def. (digital I/P, non-TMDS, CRGB)	95	10010101	149	
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 (=(gamma*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)	6B	01101011	107	
1A	Blue/white low bits (Lower 2:2:2:2 bits)	F5	11110101	245	
1B	Red x (Upper 8 bits)	91	10010001	145	
1C	Red y/ highER 8 bits	55	01010101	85	
1D	Green x	54	01010100	84	
1E	Green y	91	10010001	145	
1F	Blue x	27	00100111	39	
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	

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	89	10001001	137	
37	Pixel Clock/10000 USB	1D	00011101	29	
38	Horz active Lower 8bits	56	01010110	86	
39	Horz blanking Lower 8bits	D0	11010000	208	
3A	HorzAct:HorzBlnk Upper 4:4 bits	50	01010000	80	
3B	Vertical Active Lower 8bits	00	00000000	0	
3C	Vertical Blanking Lower 8bits	20	00100000	32	
3D	Vert Act : Vertical Blanking (upper 4:4 bit)	30	00110000	48	
3E	HorzSync. Offset	28	00101000	40	
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	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 (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	
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	54	01010100	84	T
77	Manufacture P/N	4B	01001011	75	K
78	Manufacture P/N	30	00110000	48	0
79	Manufacture P/N	31	00110001	49	1
7A	Manufacture P/N	2E	00101110	46	.
7B	Manufacture P/N	31	00110001	49	1
7C		20	00100000	32	
7D		0A	00001010	10	
7E	Extension Flag	00	00000000	0	
7F	Checksum	D0	11010000	208	