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# Product Specification

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## Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2011/02/10	All	First Edition for Customer		
0.2 2011/03/30	P6	N/A	Update general touch specification	
	P17, P21		Remove DCR function	
0.3 2011/04/1	6		Update TP general spec.	
	22		TP pin assignment	
0.4 2011/5/19	5		TP F/W version	
	25		Reliability Test	
	26, 27		TS drawing	
0.5 2011/7/13	5		TP F/W version	
	13		Absolute Ratings of Environment	
	30		Handling guide	
	25	Ta= 50°C, Dry, 300h	Ta= 60°C, Dry, 240h	



## 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.



## 2. General Description

B101EW05 V5 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 16:10 WXGA, 1280(H) x800(V) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B101EW05 V5 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]	255.85 (10.07W")			
Active Area	[mm]	216.96(H) x 135.6(V)			
Pixels H x V		1280 x 3(RGB) x 800			
Pixel Pitch	[mm]	0.1695 X 0.1695			
Pixel Format		R.G.B. Vertical Stripe			
Display Mode		Normally Black			
White Luminance (ILED=21mA) (Note: ILED is LED current)	[cd/m <sup>2</sup> ]	Base panel level: 350 typ. (5 points average) 300 min. (5 points average ) Total solution level: 300typ			
Luminance Uniformity		1.25 max. (5 points)			
Contrast Ratio		1300 typ, 1000 min.			
Response Time	[ms]	25 typ / 35 Max			
Nominal Input Voltage VDD	[Volt]	+3.3 typ.			
Power Consumption	[Watt]	3.4 max. (Include Logic and Blu power)			
Weight	[Grams]	180 max.(Panel only)			
		355 max (total solution )			
Physical Size (panel only) without bracket	[mm]		Min.	Typ.	Max.
		Length	228.96	229.46	229.95
		Width	148.7	149.2	149.7
		Thickness	---	---	5.2
Total solution [Note: Cover lens include EZ clean (Anti-Finger coating) process and follow vendor spec. With auto(self) calibration, no need hardware calibration]	[mm]		Min.	Typ.	Max.
		Length	255.4	255.6	255.7
		Width	158.5	158.6	158.7
		Thickness	---	---	7.4



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Electrical Interface		1 channel LVDS
Glass Thickness	[mm]	0.3
Surface Treatment( panel only)		Anti-Reflection $\leq 1.5\%$ , Hardness 3H
Support Color		262K colors ( RGB 6-bit )
Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

## 2.11 General Touch Specification

Item	Spec	Unit
Type of Touch Sensor	Projective Capacitive	
Panel Size	10.1'	
Outline Dimension	255.6X 158.6 typ	mm
Total Thickness	1.35 Typ	mm
Total Weight	200 (max)	g
TP Active Area	219.06 X 137.7 typ	mm
Interface	USB	
Report Rate	Finger mode – 60Hz SR mode – 60Hz (10 fingers SPI I/F)	Hz
Multi-Touch Point	Full point	
Input method	Finger	
Touch panel sensor IC	ELAN (ekTF 2136)	
Touch panel control IC	ELAN (ekTF 2136)	
Channel	42 x 28	
Distance between 2 point	11 (min)	mm
Surface hardness	8	H
TP F/W version	<b>7.12</b>	



# Product Specification

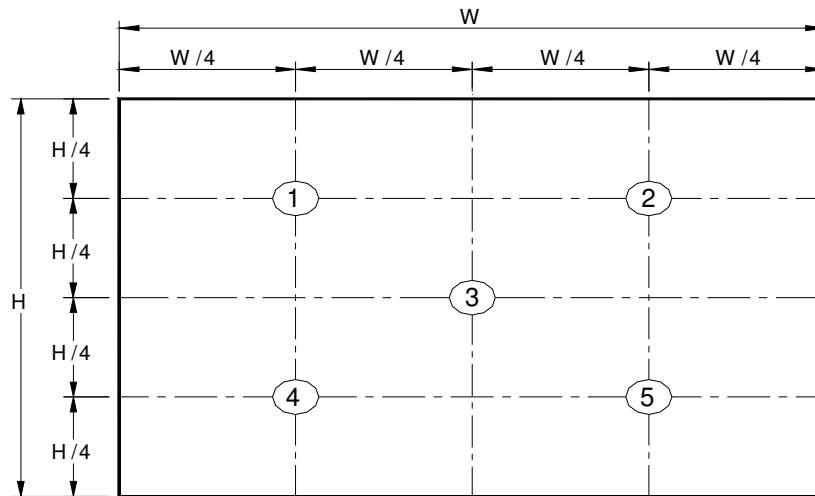
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## 2.2 Optical Characteristics

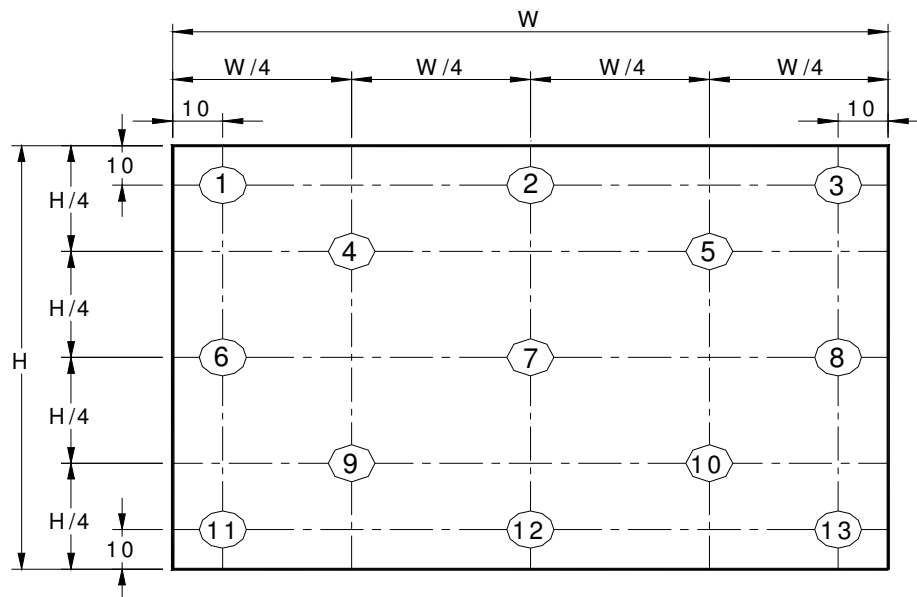
The optical characteristics are measured under stable conditions at 25°C (Room Temperature) :

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit	Note
White Luminance $I_{LED}=21mA$		5 points average	300	350	---	cd/m <sup>2</sup>	1, 4, 5.
Viewing Angle	$\theta_R$	Horizontal (Right) CR = 10 (Left)	80	85	---	degree	4, 9
	$\theta_L$		80	85	---		
	$\psi_H$	Vertical (Upper) CR = 10 (Lower)	80	85	---		
	$\psi_L$		80	85	---		
Luminance Uniformity	$\delta_{5P}$	5 Points	---	---	1.25		1, 3, 4
Luminance Uniformity	$\delta_{13P}$	13 Points	---	---	1.50		2, 3, 4
Contrast Ratio	CR		1000	1300	-		4, 6
Cross talk	%		---	---	4		4, 7
Response Time	$T_{RT}$	Rising + Falling	---	25	35	msec	4, 8
Color / Chromaticity Coordinates	Red	Rx	CIE 1931	0.549	0.579	0.609	4
		Ry		0.308	0.338	0.368	
	Green	Gx		0.295	0.325	0.355	
		Gy		0.530	0.560	0.590	
	Blue	Bx		0.132	0.152	0.182	
		By		0.095	0.125	0.155	
	White	Wx		0.283	0.313	0.343	
		Wy		0.299	0.329	0.359	
NTSC	%		-	45	-		

**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

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

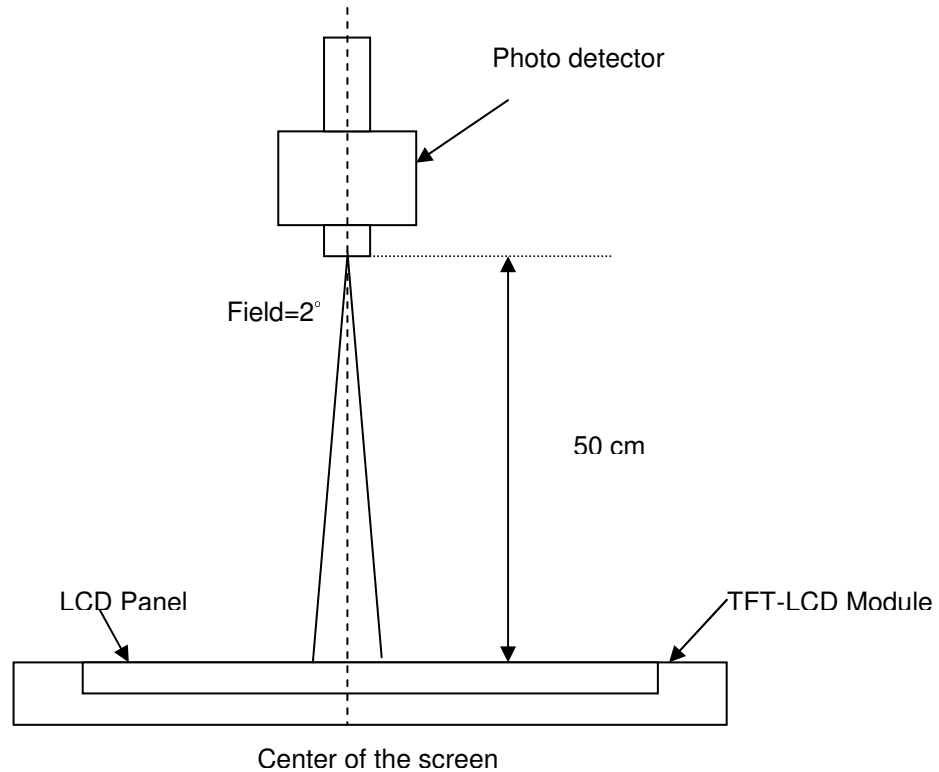
$$\delta_{W13} = \frac{\text{Maximum Brightness of thirteen points}}{\text{Minimum Brightness of thirteen points}}$$

**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.

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

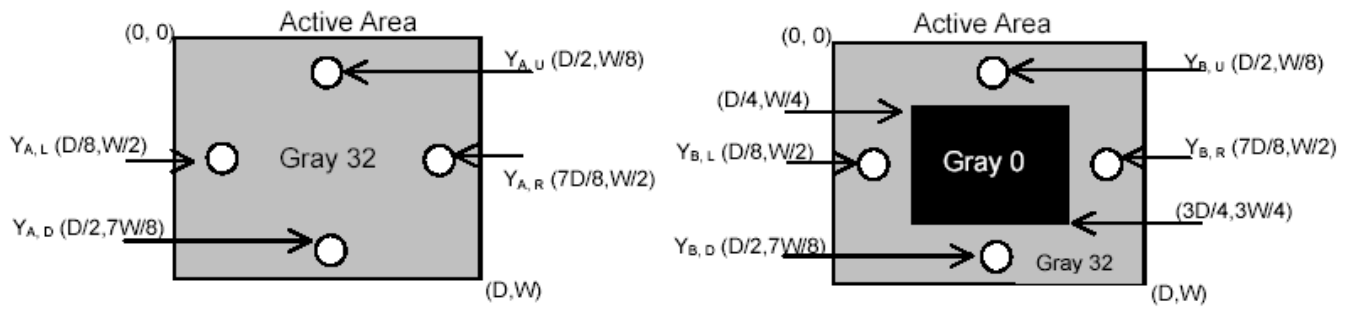
**Note 7 :** Definition of Cross Talk (CT)

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

Where

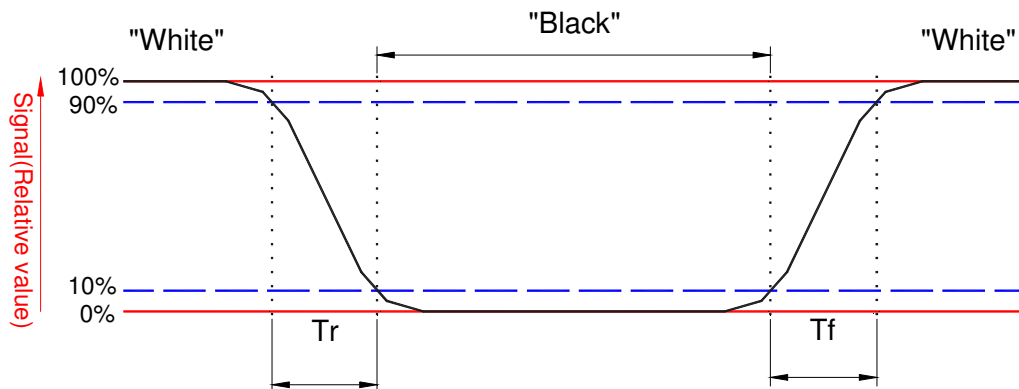
$Y_A$  = Luminance of measured location without gray level 0 pattern (cd/m<sup>2</sup>)

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



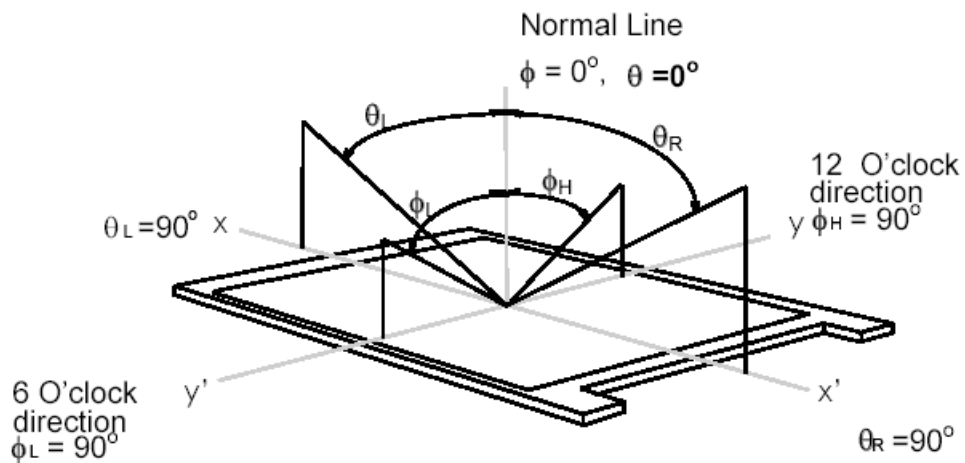
**Note 8:** Definition of response time:

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.



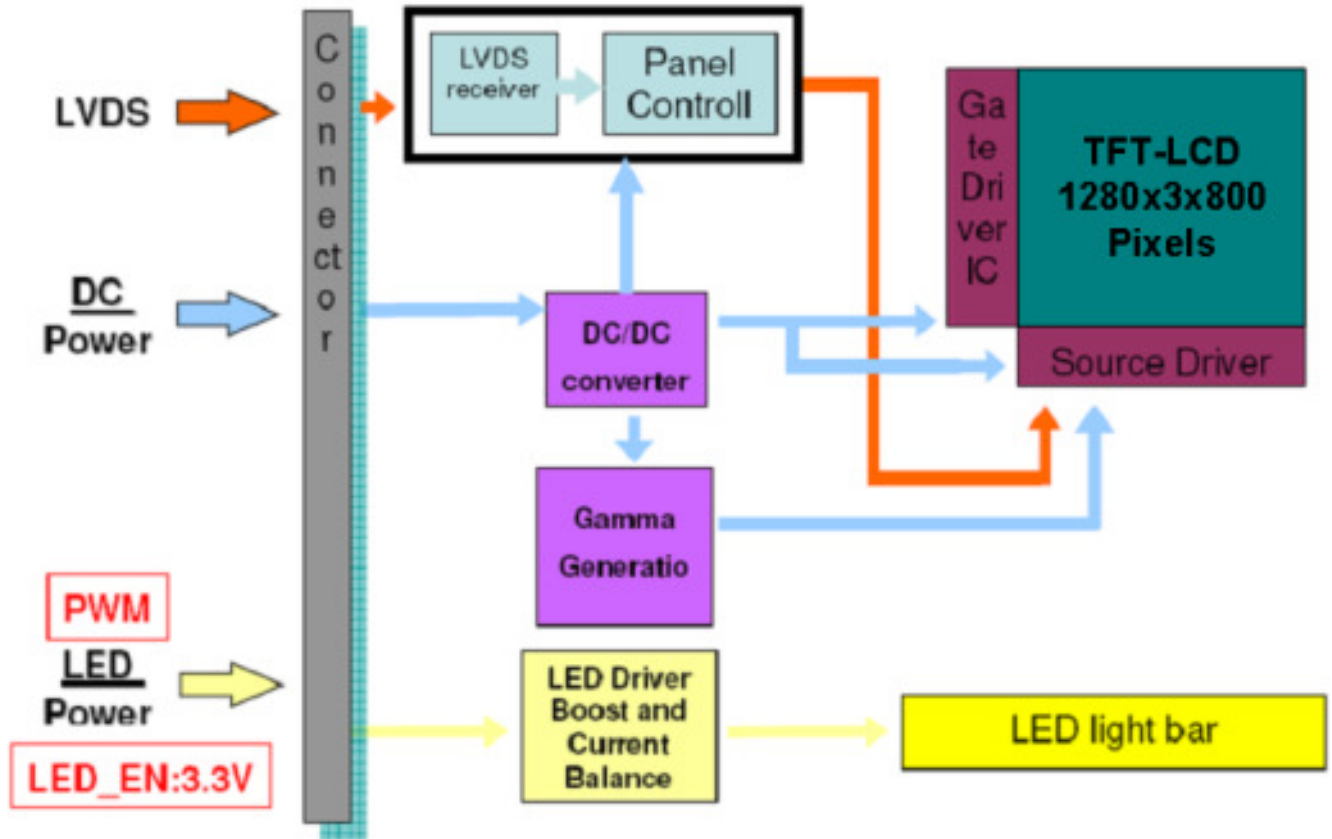
**Note 9.** Definition of viewing angle

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 10.1 inches wide Color TFT/LCD 40 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	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 Voltage	Vin	3.1	6	[Volt]	

### 4.3 Absolute Ratings of Environment

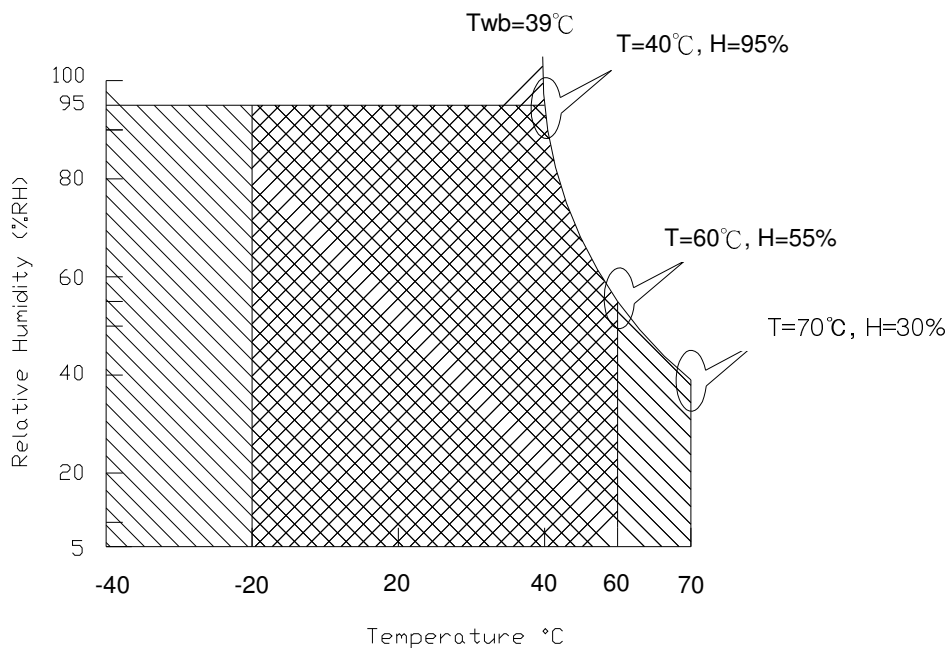
Item	Symbol	Min	Max	Unit	Conditions
Operating Temperature	TOP	-20	<b>+60</b>	[°C]	Note 4
Operation Humidity	HOP	5	95	[%RH]	Note 4
Storage Temperature	TST	-30	+70	[°C]	Note 4
Storage Humidity	HST	5	95	[%RH]	Note 4

Note 1: At Ta (25°C )

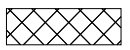
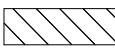
Note 2: Permanent damage to the device may occur if exceed maximum values

Note 3: LED specification refer to section 5.2

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



Operating Range 

Storage Range  + 

## 5. Electrical Characteristics

### 5.1 TFT LCD Module

#### 5.1.1 Power Specification

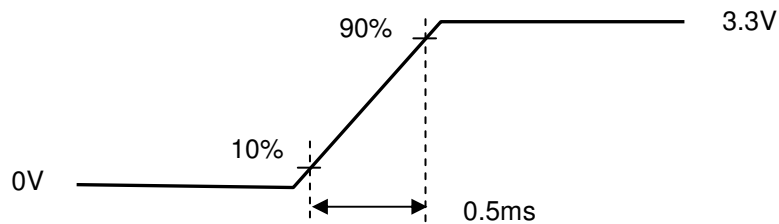
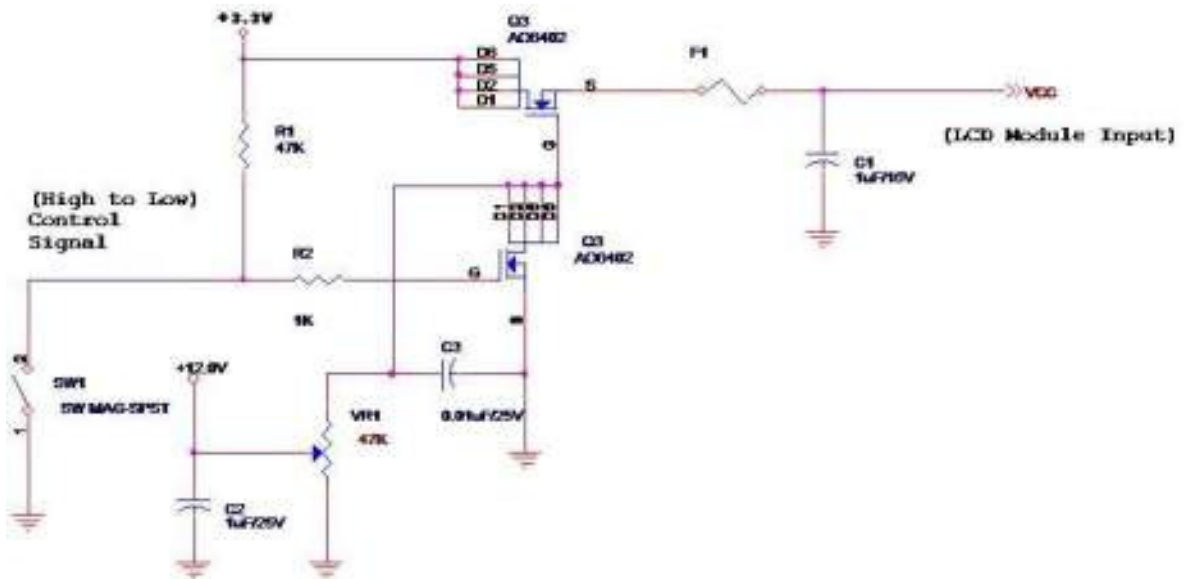
Input power specifications are as follows;

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	-	-	0.7	[Watt]	Note 1
IDD	IDD Current	-	-	212	[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 : Black Pattern at 3.3V driving voltage. ( $P_{max} = V_{3.3} \times I_{black}$ )

Note 2 : Measure Condition



Vin rising time

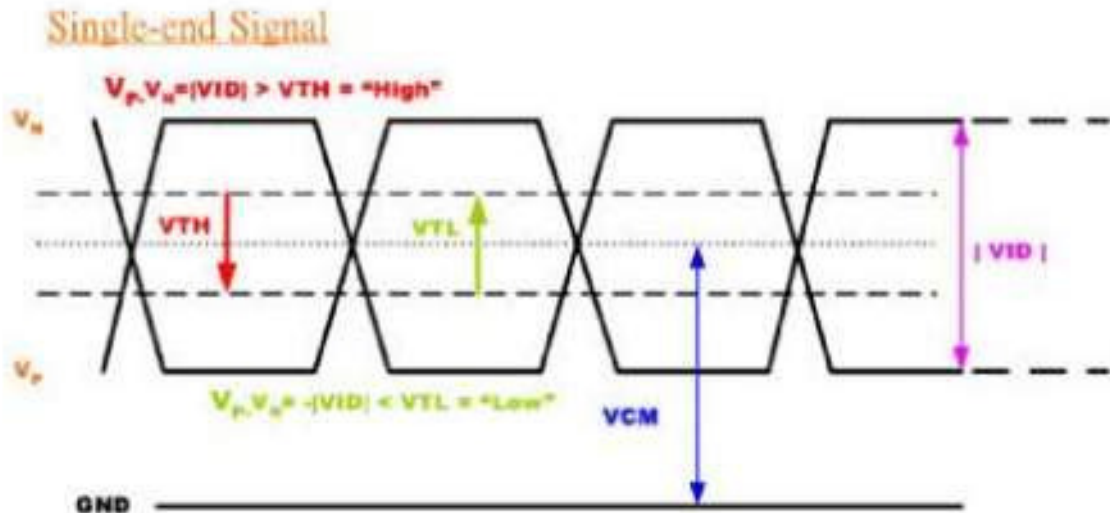
## 5.1.2 Signal Electrical Characteristics

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

Signal electrical characteristics are as follows;

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





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## 5.2 Touch Sensor Power Consumption

Items	Symbol	Specifications			Unit	Notes
		Min.	Typ.	Max.		
Touch Panel Power Supply	VDD	3.1	3.3	3.4	V	
Touch Panel Power Supply Current	VDDi	---	---	50	mA	





## 5.3 Backlight Unit

### 5.3.1 LED characteristics

Parameter	Symbol	Min	Typ	Max	Units	Condition
Backlight Power Consumption	PLED	-	-	2.4(TBD)	[Watt]	(Ta=25°C), Note 1 Vin =12V
LED Life-Time	N/A	15,000	-	-	Hour	(Ta=25°C), Note 2 If=19mA

**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.

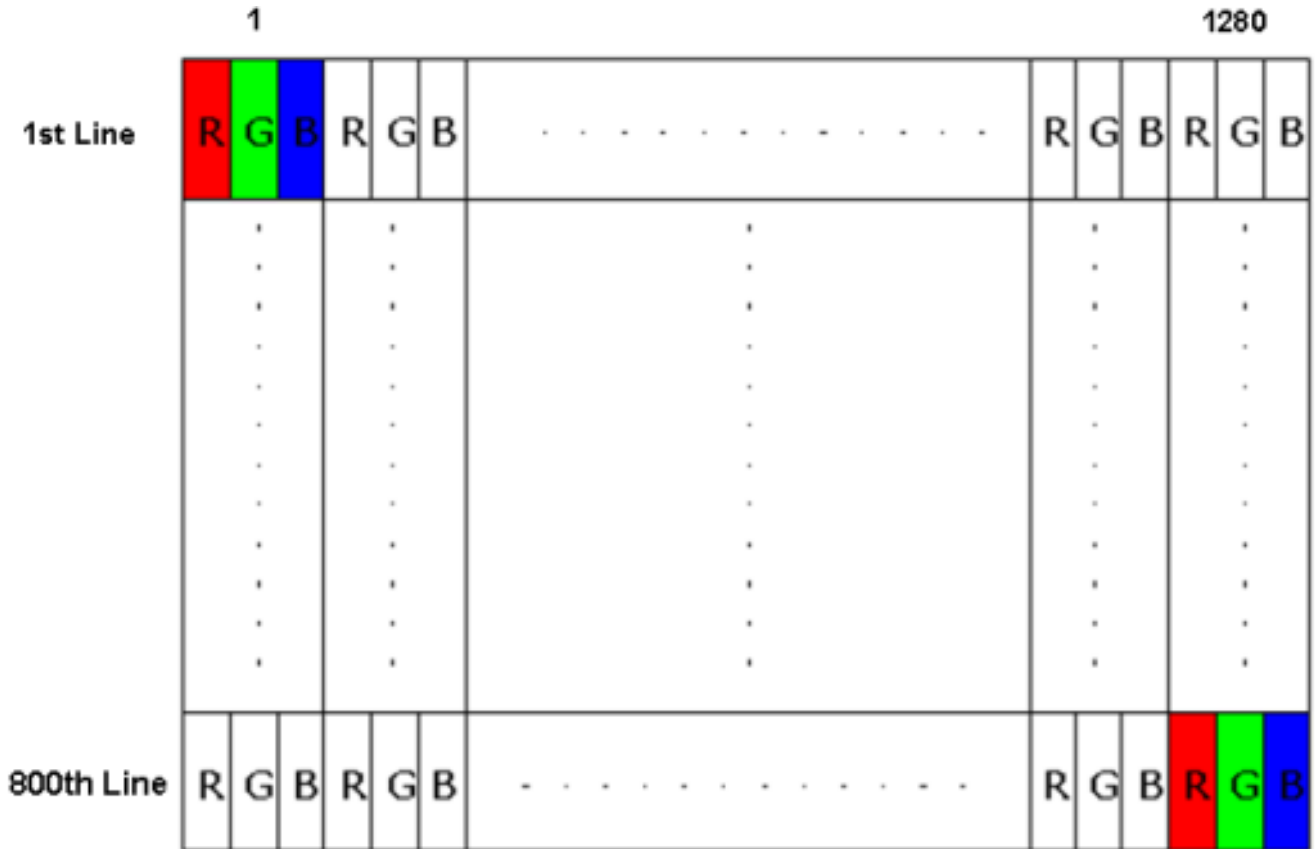
### 5.3.2 Backlight input signal characteristics

Parameter	Symbol	Min	Typ	Max	Units	Remark
LED Power Supply	VLED	5.5	12.0	21.0	[Volt]	Define as Connector Interface (Ta=25°C)
PWM Logic Input High Level	VPWM_EN	2.5	-	5.5	[Volt]	
PWM Logic Input Low Level		-	-	0.8	[Volt]	
PWM Input Frequency	FPWM Duty	200	6K	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 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 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.



## 6.3 Integration Interface Requirement

### 6.3.1 LVDS 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.

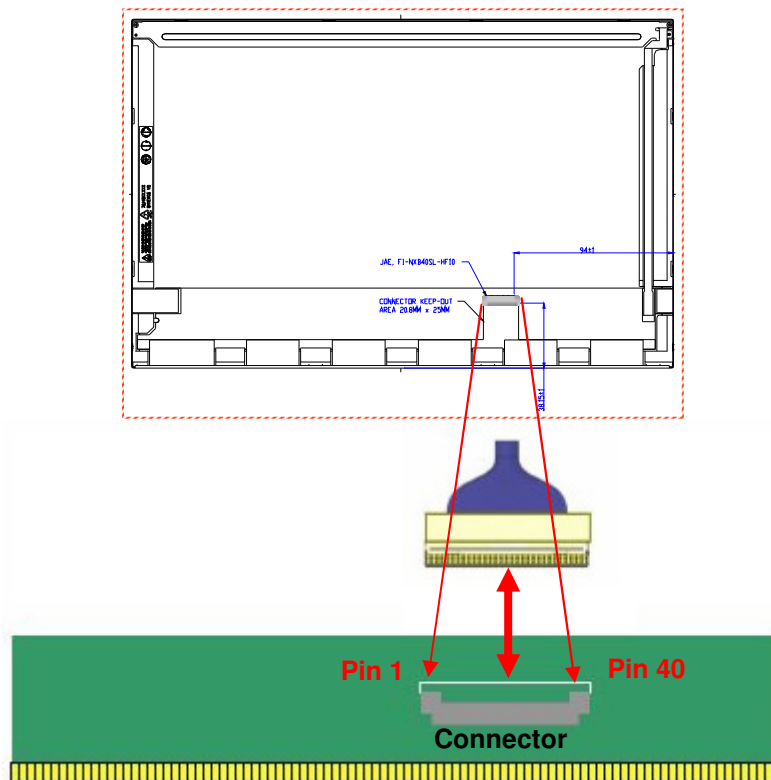
Connector Name / Designation	For Signal Connector
Manufacturer	JAE or Compatible
Type / Part Number	JAE HD1S040HA1 or Compatible
Mating Housing/Part Number	IPEX 20453-040T-11 or Compatible

### 6.3.2 LVDS Pin Assignment

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

PIN#	Signal Name	Description
1	NC	No Connection (Reserve)
2	AVDD	Power Supply +3.3V
3	AVDD	Power Supply +3.3V
4	VEDID	EDID +3.3V Power
5	NC	No Connection (Reserve)
6	CLK_EDID	EDID Clock Input
7	DAT_EDID	EDID Data Input
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	GND	Ground–Shield
20	NC	No Connection (Reserve)
21	NC	No Connection (Reserve)
22	GND	Ground–Shield
23	NC	No Connection (Reserve)
24	NC	No Connection (Reserve)

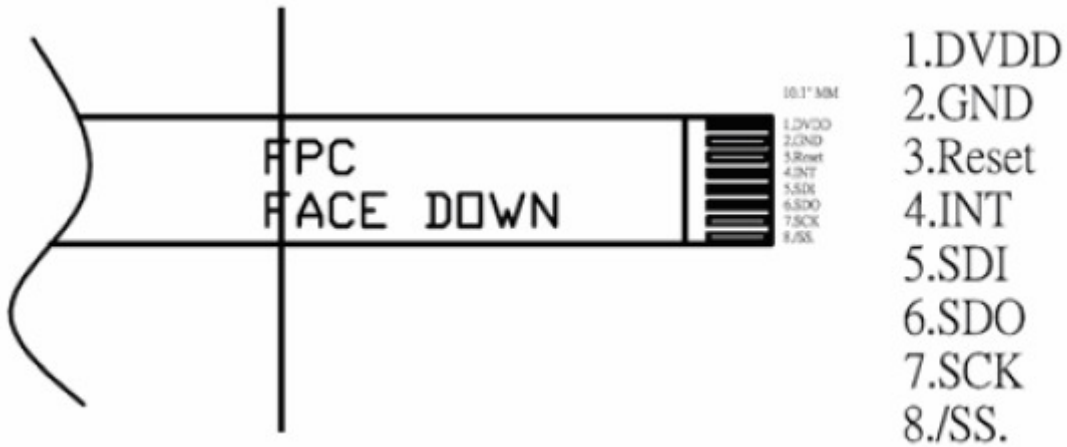
25	GND	Ground-Shield
26	NC	No Connection (Reserve)
27	NC	No Connection (Reserve)
28	GND	Ground-Shield
29	NC	No Connection (Reserve)
30	NC	No Connection (Reserve)
31	VLED_GND	LED Ground
32	VLED_GND	LED Ground
33	VLED_GND	LED Ground
34	NC	No Connection (Reserve)
35	VPWM_EN	System PWM Logic Input Level
36	VLED_EN	LED enable input level
37	NC	Reserve for AUO
38	VLED	LED Power Supply
39	VLED	LED Power Supply
40	VLED	LED Power Supply



Note1: Input signals shall be low or High-impedance state when VDD is off.

## 6.4 Touch Sensor Signal Description/ Pin Assignment

### 6.4.1 Touch Sensor Pin Assignment



## 6.5 LVDS Interface Timing

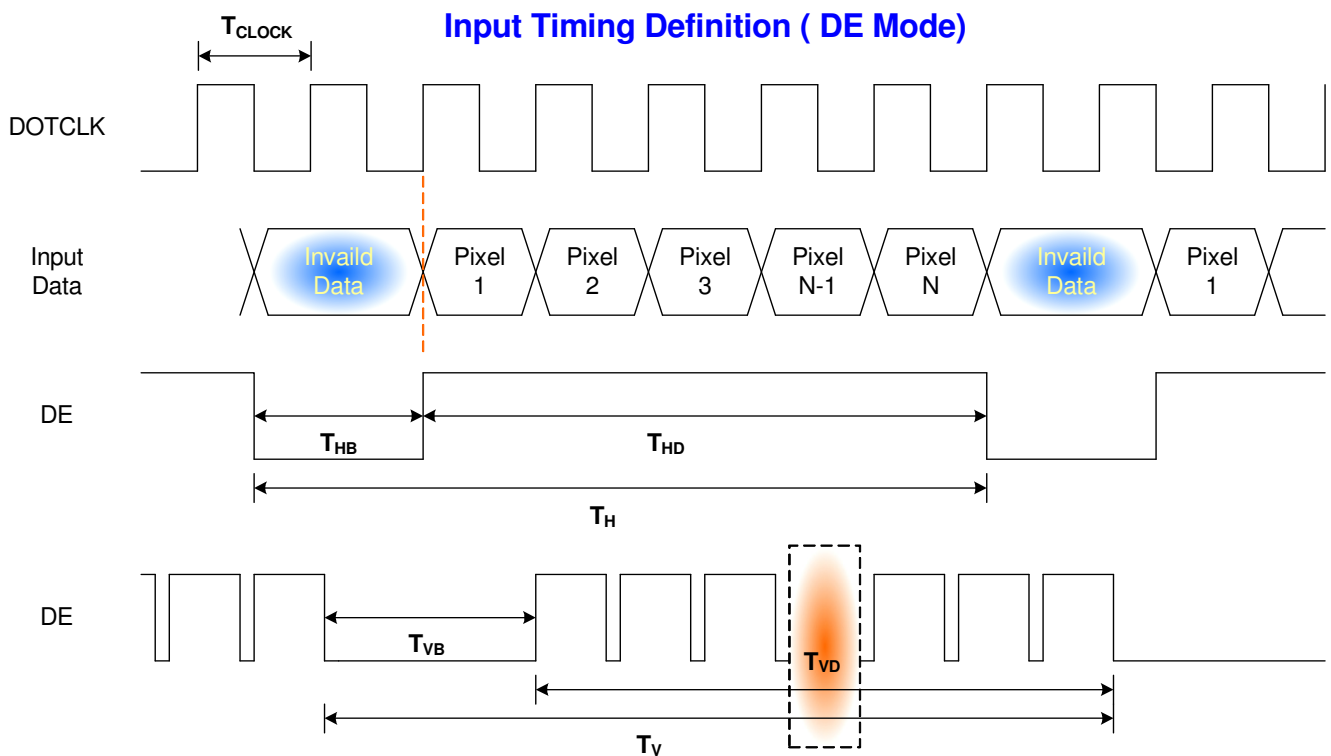
### 6.5.1 Timing Characteristics

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	
Frame Rate	---	---	60	---	Hz	
Clock frequency	$1/T_{\text{Clock}}$	64	68.93	85	MHz	
Vertical Section	Period	$T_V$	808	816	1023	$T_{\text{Line}}$
	Active	$T_{VD}$	800			
	Blanking	$T_{VB}$	8	16	223	
Horizontal Section	Period	$T_H$	1310	1408	2047	$T_{\text{Clock}}$
	Active	$T_{HD}$	1280			
	Blanking	$T_{HB}$	40	168	767	

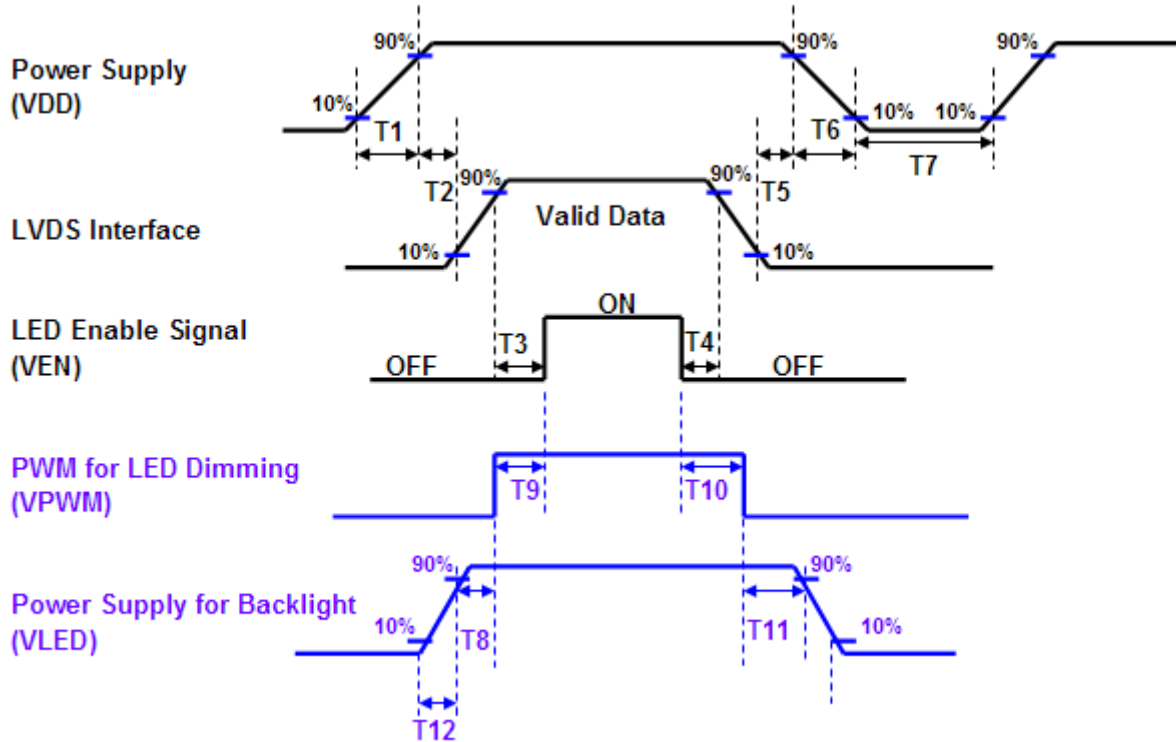
Note : DE mode only

### 6.5.2 Timing diagram



## 6.6 Power ON/OFF 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



Power Sequence Timing			
Parameter	Value		Units
	Min.	Max.	
T1	0.5	10	ms
T2	0	50	
T3	200	-	
T4	200	-	
T5	0	50	
T6	0	10	
T7	500	-	
T8	10	-	
T9	0	180	
T10	0	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 , 95%RH, 240h	
High Temperature Operation	<b>Ta= 60°C, Dry, 240h</b>	
Low Temperature Operation	Ta= -20°C , 240h	
High Temperature Storage	Ta= 70°C , 35%RH, 240h	
Low Temperature Storage	Ta= -40°C , 50%RH, 240h	
Thermal Shock Test	Ta=-30°C to 70°C , Duration at 30 min, 20 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%



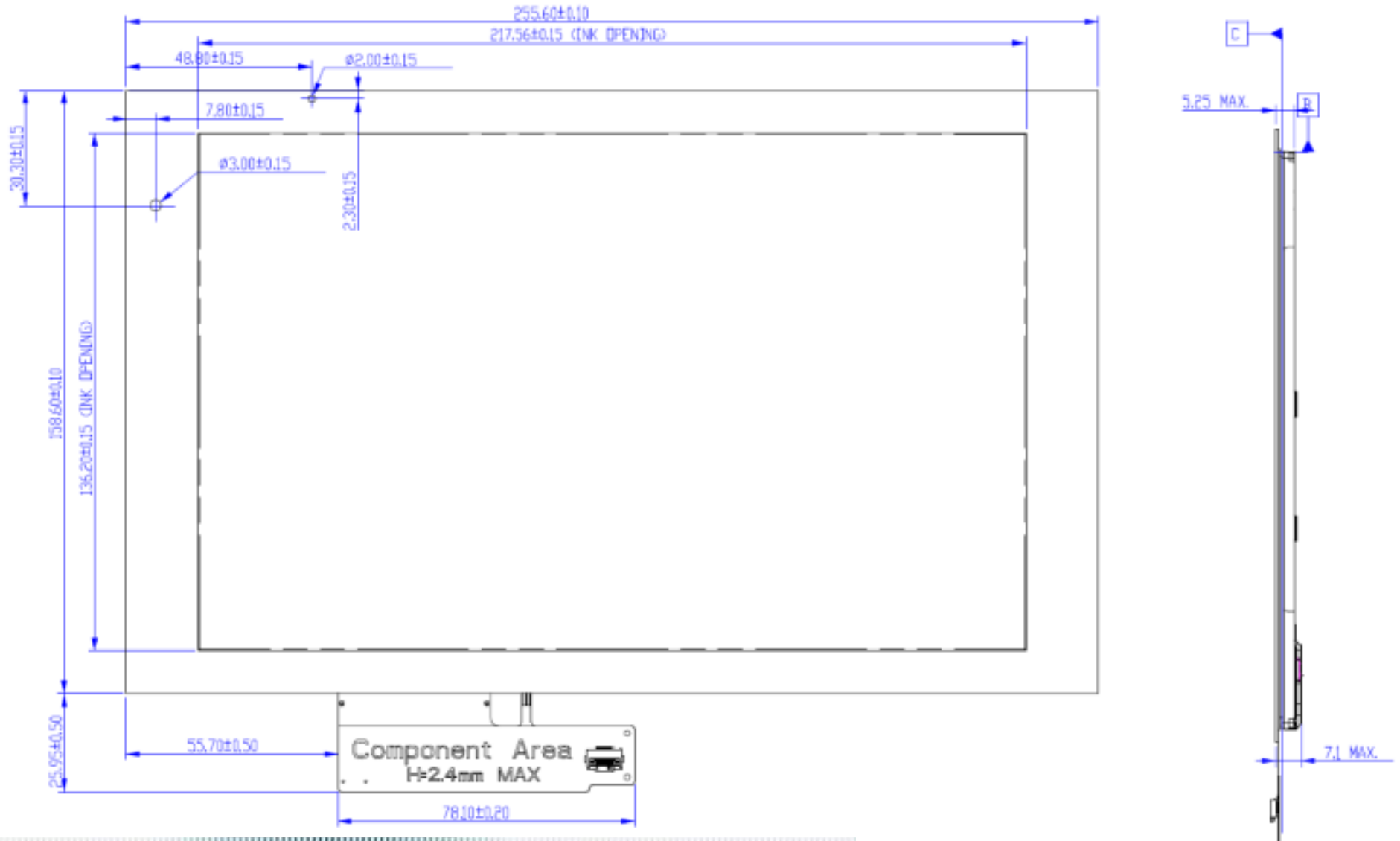
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## 8. Mechanical Characteristics

### .1 Total solution Outline Dimension

#### 8.1.1 Standard Front View

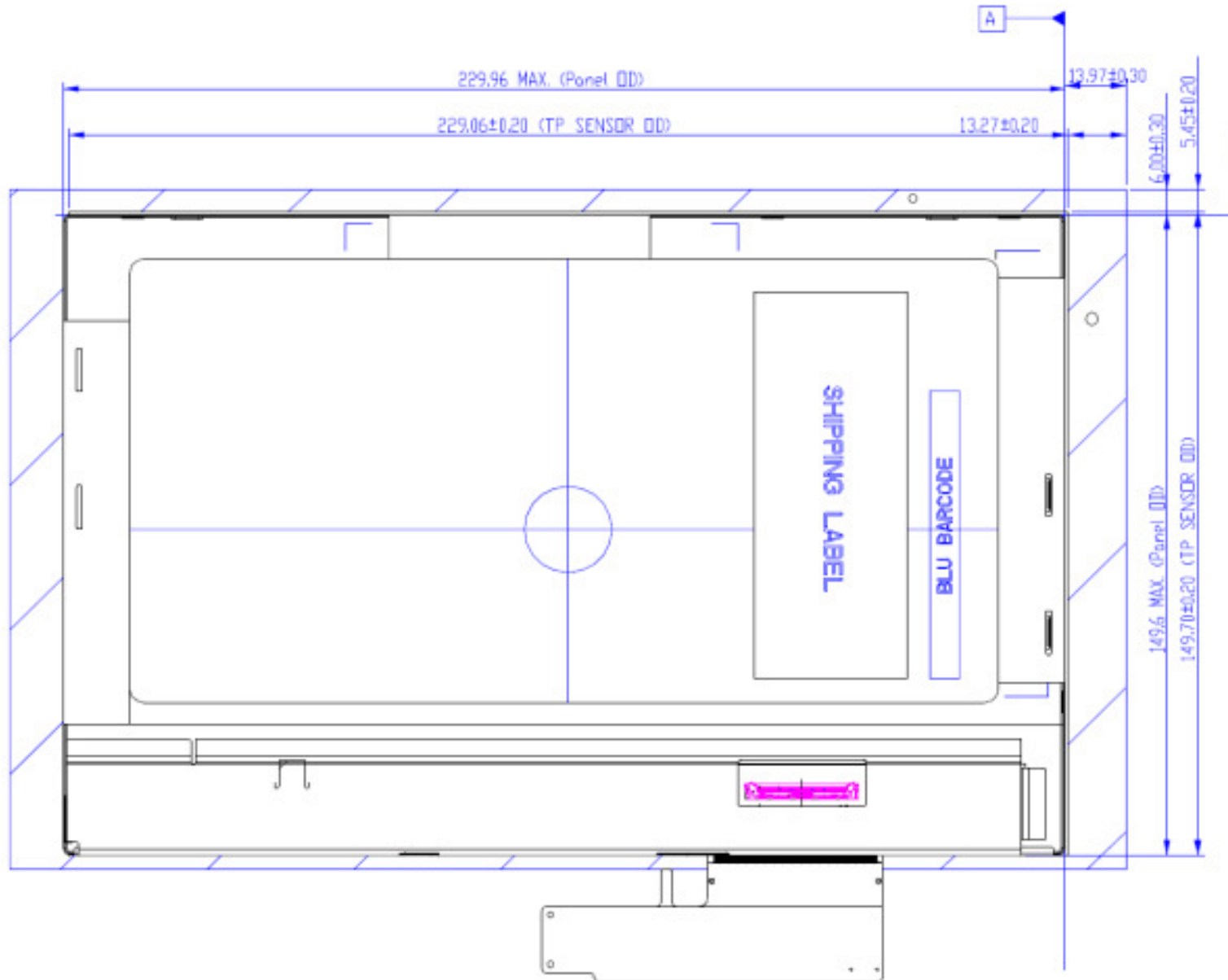




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## 8.1.2 Standard Back View





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## 9. Shipping and Package

### 9.1 Shipping Label Format

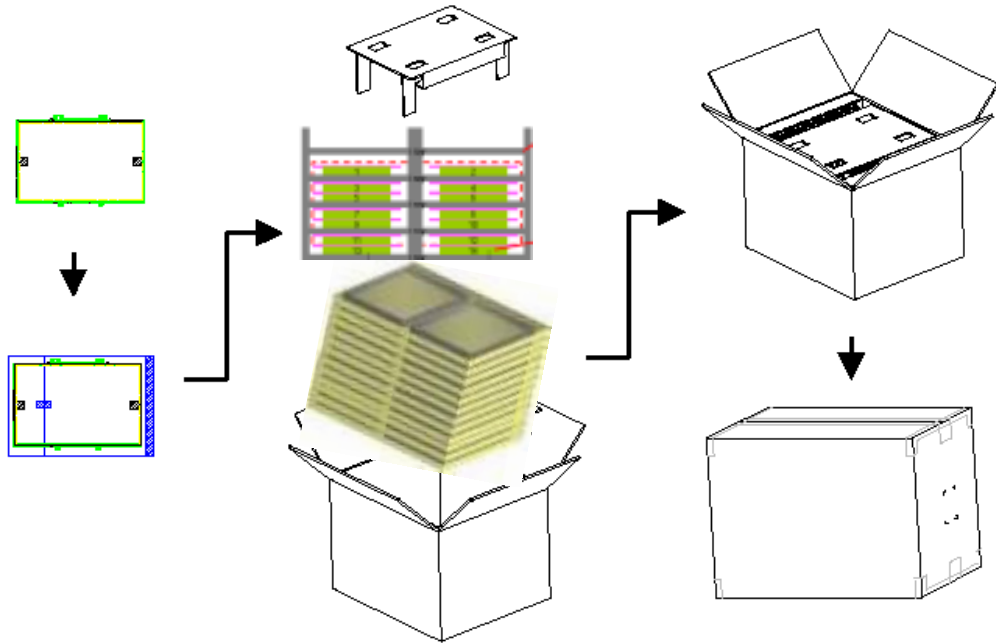
Shipping label

 XXXXXXXXXXXX-XXXXX	<b>Manufactured YY/MM</b> <b>Model No: B101EW05 V5</b> <b>AU Optronics</b> <b>MADE IN CHINA (S01)</b>  <b>H/W: 0A F/W:0</b>	<b>C</b>  <b>US</b> E304255	 <b>RoHS</b> 
---	--	--	---

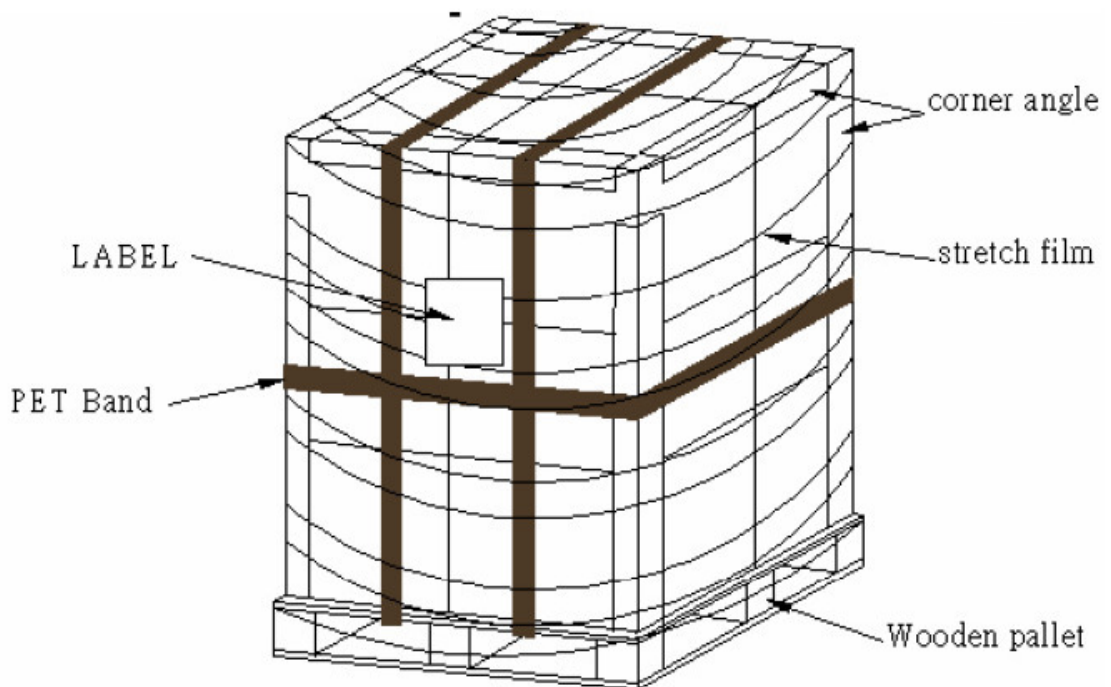
Carton Label

<b>AU Optronics</b>	<b>QTY : 40</b>	<b>RoHS</b>	
<b>MODEL NO : B101EW05 V5</b>			
<b>PART NO : 97.10B17.500</b>			
<b>CUSTOMER NO :</b>			
<b>CARTON NO :</b>			
<b>Made in China</b>	<b>*ZM100-0652300205*</b>		

## 9.2 Carton Package



## 9.3 Shipping Package of Palletizing Sequence



## 9.4 Handling Guide

This is a thin and slim LCD model with TP module, and please be cautious when pulling it out of package or assembling it onto platform. Careless handlings, e.g. twist, bending, pressing, or collision, will result malfunction of LCD and TP models.

### (1) Handling method notice



Hold the left & right side of LCD with TP module with both hands and do not grab the LCD with TP module.

### (2) On the table notice



It is not allowed placing anything on the tray of the LCD with TP module.



It is not allowed to pile up the LCD with TP module with each other.



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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	D4	11010100	212	
0B	hex, LSB first	55	01010101	85	
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	14	00010100	20	
12	EDID Structure Ver.	01	00000001	1	
13	EDID revision #	04	00000100	4	
14	<b>Video input def.</b> ( <i>digital I/P, non-TMDS, CRGB</i> )	90	10010000	144	
15	<b>Max H image size</b> ( <i>rounded to cm</i> )	16	00010110	22	
16	<b>Max V image size</b> ( <i>rounded to cm</i> )	0E	00001110	14	
17	<b>Display Gamma</b> ( <i>=(gamma*100)-100</i> )	78	01111000	120	
18	<b>Feature support</b> ( <i>no DPMS, Active OFF, RGB, tmg Blk#1</i> )	02	00000010	2	
19	Red/green low bits ( <b>Lower 2:2:2:2 bits</b> )	CB	11001011	203	
1A	Blue/white low bits ( <b>Lower 2:2:2:2 bits</b> )	55	01010101	85	
1B	Red x ( <b>Upper 8 bits</b> )	94	10010100	148	
1C	Red y/ highER 8 bits	57	01010111	87	
1D	Green x	53	01010011	83	
1E	Green y	8E	10001110	142	
1F	Blue x	27	00100111	39	
20	Blue y	23	00100011	35	
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	



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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	D0	11010000	208	
37	Pixel Clock/10000 USB	1B	00011011	27	
38	Horz active <b>Lower 8bits</b>	00	00000000	0	
39	Horz blanking <b>Lower 8bits</b>	B8	10111000	184	
3A	HorzAct:HorzBlnk <b>Upper 4:4 bits</b>	50	01010000	80	
3B	Vertical Active <b>Lower 8bits</b>	20	00100000	32	
3C	Vertical Blanking <b>Lower 8bits</b>	08	00001000	8	
3D	Vert Act : Vertical Blanking <b>(upper 4:4 bit)</b>	30	00110000	48	
3E	HorzSync. Offset	08	00001000	8	
3F	HorzSync.Width	0A	00001010	10	
40	VertSync.Offset : VertSync.Width	31	00110001	49	
41	Horz&Vert Sync Offset/Width <b>Upper 2bits</b>	00	00000000	0	
42	Horizontal Image Size <b>Lower 8bits</b>	D8	11011000	216	
43	Vertical Image Size <b>Lower 8bits</b>	87	10000111	135	
44	Horizontal & Vertical Image Size <b>(upper 4:4 bits)</b>	00	00000000	0	
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 stereo, 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	





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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	30	00110000	48	0
74	Manufacture P/N	31	00110001	49	1
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	35	00110101	53	5
79	Manufacture P/N	20	00100000	32	
7A	Manufacture P/N	56	01010110	86	V



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<b>7B</b>	Manufacture P/N	35	00110101	53	5
<b>7C</b>		20	00100000	32	
<b>7D</b>		0A	00001010	10	
<b>7E</b>	Extension Flag	00	00000000	0	
<b>7F</b>	Checksum	0E	00001110	14	
<b>SUM</b>				<b>6144</b>	