

- ( ) Preliminary Specification( V ) Final Specification

Module 14.0" (13.97") HD 16:9 Color TFT-LCD with LED Backlight design	
Model Name	B140XW02 V4 (0A)
Note (	

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

Approved by	Date			
Bonnie Chen	<u>01/21/2010</u>			
Prepared by	Date			
<u>Louis Li</u>	01/21/2010			
NBBU Marketing Division AU Optronics corporation				



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# **Record of Revision**

\	/ersion and Date	Page	Old description	New Description	Remark
1	2009/11/26 0.1	All	First Edition for Customer		
2	2010/01/21 1.0	All	Preliminary Specification	Final Specification	
			, .	·	



# **Product Specification**

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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 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 electronic breakdown.



## 2. General Description

B140XW02 V4 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) x768(V) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B140XW02 V4 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  $^{\circ}\mathrm{C}$  condition:

Items	Unit	Specifications				
Screen Diagonal	[mm]	354, 14.0"(13.97")				
Active Area	[mm]	309.399 x 173.952				
Pixels H x V		1366 x 3(R	GB) x 768			
Pixel Pitch	[mm]	0.2265 x 0.	2265			
Pixel Format		B.G.R. Vert	tical Stripe			
Display Mode		Normally W	/hite			
White Luminance (ILED=20mA) (Note: ILED is LED current)	[cd/m <sup>2</sup> ]	200 typ. (5 points average) 170 min. (5 points average)				
Luminance Uniformity		1.25 max. (	5 points)			
Contrast Ratio		400 typ				
Response Time	[ms]	8 typ / 16 Max				
Nominal Input Voltage VDD	[Volt]	+3.3 typ.				
Power Consumption	[Watt]	3.8W Max				
Weight	[Grams]	320 max.				
			Min.	Тур.	Max.	
Physical Size	[mm]	Length	319.9	320.4	320.9	
Include bracket	[]	Width	204.6	205.1	205.6	
		Thickness - 3.6				
Electrical Interface		1 channel LVDS				
Glass Thickness	[mm]	0.5				
Surface Treatment		Anti-glare, Hardness 3H,				
Support Color		262K colors ( RGB 6-bit )				



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

# 2.2 Optical Characteristics

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

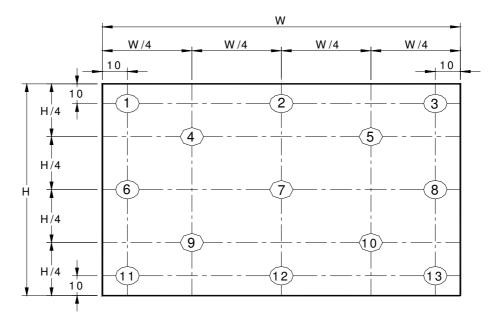
Item		Symbol	Conditions	Min.	Тур.	Max.	Unit	Note
White Lumir			5 points average	170	200	-	cd/m <sup>2</sup>	1, 4, 5.
		θR θL	Horizontal (Right) CR = 10 (Left)	40 40	45 45	-	degree	
Viewing A	ngie	<b>ф</b> н <b>ф</b> ∟	Vertical (Upper) CR = 10 (Lower)	10 30	15 35	-		4, 9
Luminan Uniformi		δ <sub>5P</sub>	5 Points	-	-	1.25		1, 3, 4
Luminan Uniformi		δ <sub>13P</sub>	13 Points	-	-	1.60		2, 3, 4
Contrast R	atio	CR		300	400	-		4, 6
Cross ta	lk	%		-	_	4		4, 7
		T <sub>r</sub>	Rising	-	2	-		
Response <sup>-</sup>	Гime	T <sub>f</sub>	Falling	-	6	-	msec	4, 8
		T <sub>RT</sub>	Rising + Falling	-	8	16		
	Red	Rx		0.550	0.580	0.610		
	neu	Ry		0.319	0.340	0.370		
	Green	Gx		0.280	0.310	0.340		
Color / Chromaticity	Green	Gy		0.520	0.550	0.580		
Coodinates		Вх	CIE 1931	0.125	0.155	0.185		4
	Blue	Ву		0.125	0.155	0.185		
	\A/Ia:+-	Wx		0.263	0.313	0.363		
	White	Wy		0.279	0.329	0.379		
NTSC		%		42	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

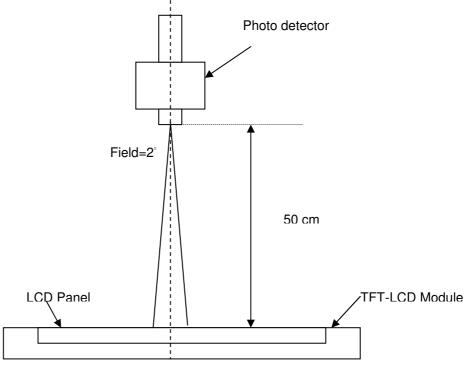
2 _	_	Maximum Brightness of five points
δ w5	= '	Minimum Brightness of five points
2		Maximum Brightness of thirteen points
δ w13	= '	Minimum Brightness of thirteen points

#### 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.



Center of the screen

**Note 5**: Definition of Average Luminance of White (Y<sub>L</sub>):

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

Note 7: Definition of Cross Talk (CT)

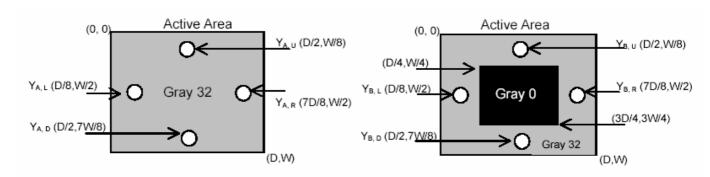
$$CT = |Y_B - Y_A| / Y_A \times 100 (\%)$$

#### Where

Y<sub>A</sub> = Luminance of measured location without gray level 0 pattern (cd/m<sub>2</sub>)

Y<sub>B</sub> = Luminance of measured location with gray level 0 pattern (cd/m<sub>2</sub>)





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.



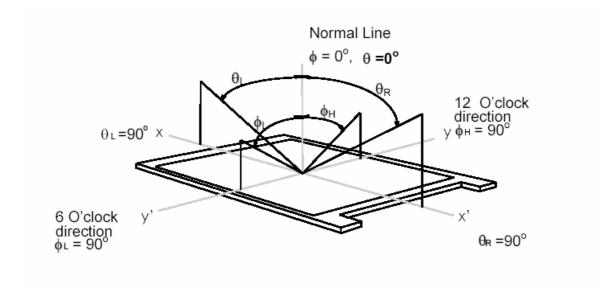


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#### Note 9. Definition of viewing angle

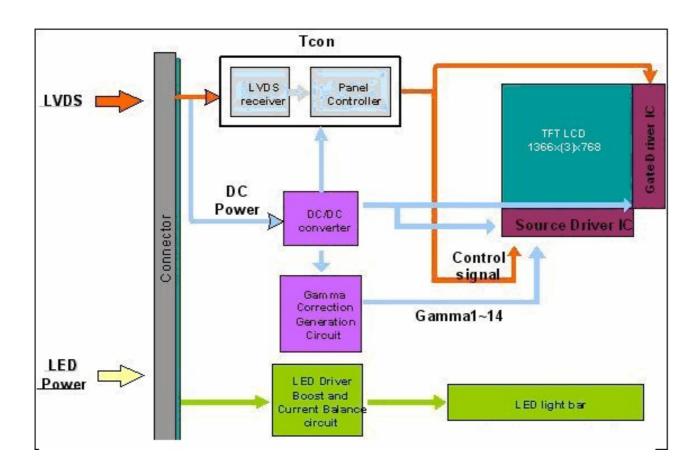
Viewing angle is the measurement of contrast ratio  $\geq$  10, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° ( $\theta$ ) horizontal left and right and 90° ( $\Phi$ ) vertical, high (up) and 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 14.0 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 Environment

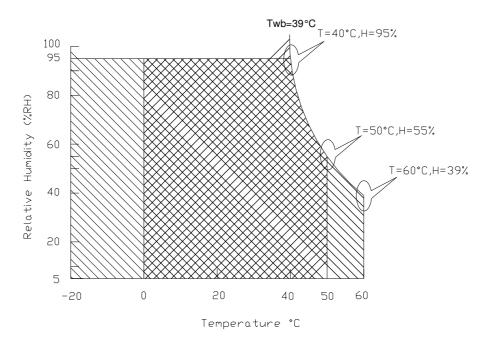
Item	Symbol	Min	Max	Unit	Conditions		
Operating Temperature	TOP	0	+50	[°C]	Note 4		
Operation Humidity	HOP	5	95	[%RH]	Note 4		
Storage Temperature	TST	-20	+60	[°C]	Note 4		
Storage Humidity	HST	5	95	[%RH]	Note 4		

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).



Operating Range

Storage Range

+

### 5. Electrical Characteristics

#### **5.1 TFT LCD Module**

#### 5.1.1 Power Specification

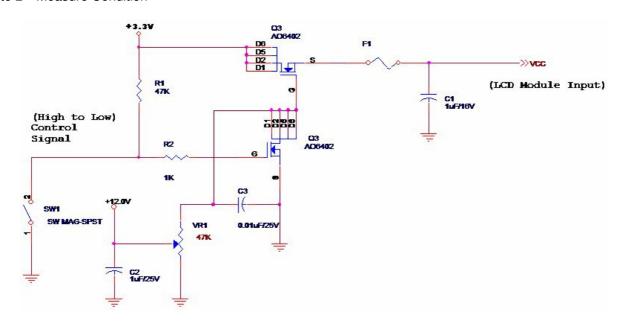
Input power specifications are as follows;

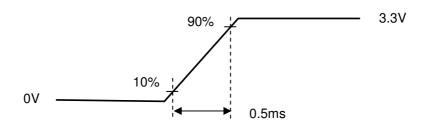
The power specification are measured under 25°C and frame frenquency under 60Hz

Symble	Parameter	Min	Тур	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	-	ı	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: Black Pattern at 3.3V driving voltage. (P<sub>max</sub>=V<sub>3.3</sub> x I<sub>black</sub>)

Note 2: Measure Condition





Vin rising time

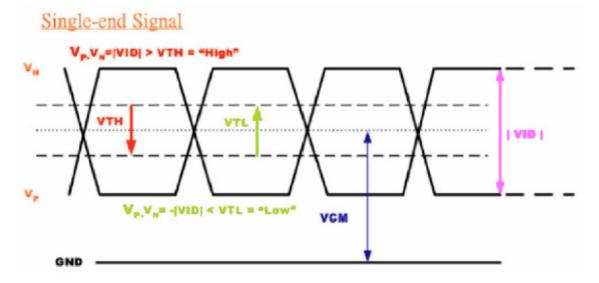
### **5.1.2 Signal Electrical Characteristics**

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 <sub>th</sub>	Differential Input High Threshold (Vcm=+1.2V)	-	100	[mV]
V <sub>tl</sub>	Differential Input Low Threshold (Vcm=+1.2V)	-100	-	[mV]
V <sub>ID</sub>	Differential Input Voltage	100	600	[mV]
V <sub>cm</sub>	Differential Input Common Mode Voltage	1.125	1.375	[V]

Note: LVDS Signal Waveform





#### 5.2.1 LED characteristics

Parameter	Symbol	Min	Тур	Max	Units	Condition
Backlight Power Consumption	PLED	-	-	2.8	[Watt]	(Ta=25°C), Note 1 Vin =12V
LED Life-Time	N/A	15,000	-	-	Hour	(Ta=25°C), Note 2 I <sub>F</sub> =20 mA

Note 1: Calculator value for reference P<sub>LED</sub> = 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	Тур	Max	Units	Remark
LED Power Supply	VLED	7.0	12.0	21.0	[Volt]	
LED Enable Input High Level		2.5	-	5.5	[Volt]	
LED Enable Input Low Level	VLED_EN	-	-	0.8	[Volt]	Define as
PWM Logic Input High Level		2.5	-	5.0	[Volt]	Connector
PWM Logic Input Low Level	VPWM_EN	-	-	0.8	[Volt]	(Ta=25°C)
PWM Input Frequency	FPWM	100	1K	20K	Hz	
PWM Duty Ratio	Duty	5		100	%	



## 6. Signal Interface Characteristic

## 6.1 Pixel Format Image

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

	1				1366
1st Line	R G B	R G B		R G B	R G B
	-		1		
		,	·		
			•		
				•	.
			1		:
		,	1		
	'		'	'	'
768 <sup>th</sup> Line√	R G B	RGB		R G B	R G B



## **6.2 The Input Data Format**

RxCLKIN		
RxIN0	G0 R5 R4 R3 R2	R1 R0
RxIN1	B1 B0 G5 G4 G3	G2 G1 X
RxIN2	DE VS HS B5 B4	B3 B2

Cianal Nama	Description	
Signal Name	Description (MCD)	Dad shall Date
R5	Red Data 5 (MSB)	Red-pixel Data
R4	Red Data 4	Each red pixel's brightness data consists of
R3	Red Data 3	these 6 bits pixel data.
R2	Red Data 2	
R1	Red Data 1	
R0	Red Data 0 (LSB)	
	Red-pixel Data	
	·	
G5	Green Data 5 (MSB)	Green-pixel Data
G4	Green Data 4	Each green pixel's brightness data consists of
G3	Green Data 3	these 6 bits pixel data.
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
<b>D</b> -	Green-pixel Data	5
B5	Blue Data 5 (MSB)	Blue-pixel Data
B4	Blue Data 4	Each blue pixel's brightness data consists of
B3	Blue Data 3	these 6 bits pixel data.
B2	Blue Data 2	
B1	Blue Data 1	
B0	Blue Data 0 (LSB)	
	Blue-pixel Data	
RxCLKIN	Data Clock	The signal is used to strobe the pixel data and
IIAOLININ	Data Ciuck	DE signals. All pixel data shall be valid at the
DE	Dioplay Timing	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
VC	Vartical Cura	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 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	IPEX or compatible
Type / Part Number	IPEX 20455-040E-12R or compatible
Mating Housing/Part Number	IPEX 20453-040T-11 or compatible

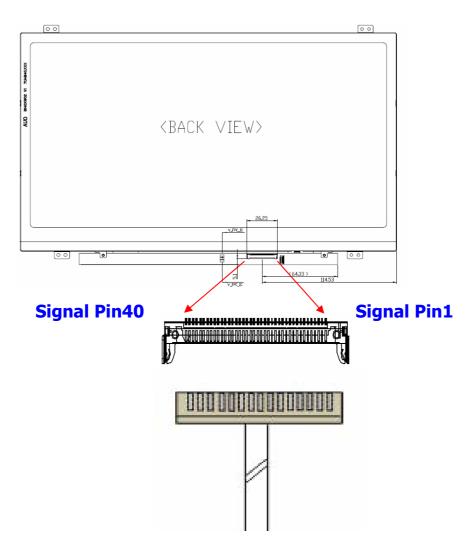
#### 6.3.2 Pin Assignment

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

		B140XW02 V2
Pin	Signal	Description
1	NC	No Connection (Reserve)
2	VDD	PowerSupply,3.3V(typical)
3	VDD	PowerSupply,3.3V(typical)
4	DVDD	DDC 3.3Vpower
5	Test	Panel Self Test-BIST
6	SCL	DDC Clock
7	SDA	DDC Data
8	Rin0-	-LVDS differential data input(R0-R5,G0)
9	Rin0+	+LVDS differential data input(R0-R5,G0)
10	GND	Ground
11	Rin1-	-LVDS differential data input(G1-G5,B0-B1)
12	Rin1+	+LVDS differential data input(G1-G5,B0-B1)
13	GND	Ground
14	Rin2-	-LVDS differential data input(B2-B5,HS,VS,DE)
15	Rin2+	+LVDS differential data input(B2-B5,HS,VS,DE)
16	GND	Ground
17	ClkIN-	-LVDS differential clock input
18	ClkIN+	+LVDS differential clock input
19	GND	Ground
20	NC	No Connection (Reserve)
21	NC	No Connection (Reserve)
22	GND	Ground
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	PWM	System PWM Signal Input
36	LED_EN	LED enable pin(+3V Input)
37	NC	No Connection
38	VLED	LED Power Supply 7V-21V
39	VLED	LED Power Supply 7V-21V
40	VLED	LED Power Supply 7V-21V



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

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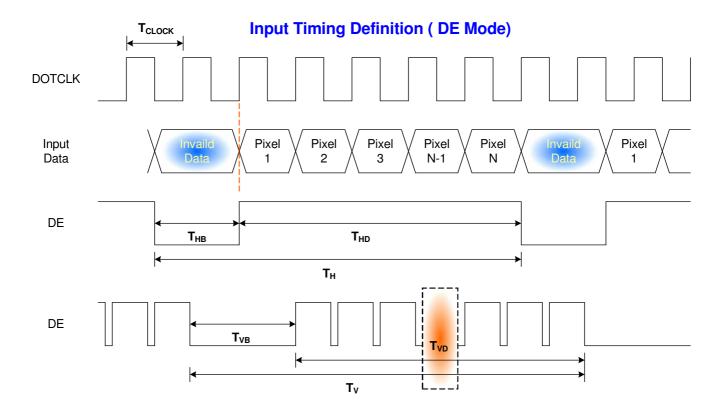
#### 6.4.1 Timing Characteristics

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

Parameter		Symbol	Min.	Тур.	Max.	Unit
Frame Rate		-	-	60	-	Hz
Clock from	equency	1/ T <sub>Clock</sub>	-	69.3	-	MHz
	Period	T <sub>V</sub>	776	808	1023	
Vertical	Active	T <sub>VD</sub>		768		$T_Line$
Section	Blanking	T <sub>VB</sub>	8	40	255	
	Period	T <sub>H</sub>	1396	1606	2047	
Horizontal	Active	T <sub>HD</sub>		1366		T <sub>Clock</sub>
Section	Blanking	T <sub>HB</sub>	30	240	681	

Note: DE mode only

#### 6.4.2 Timing diagram



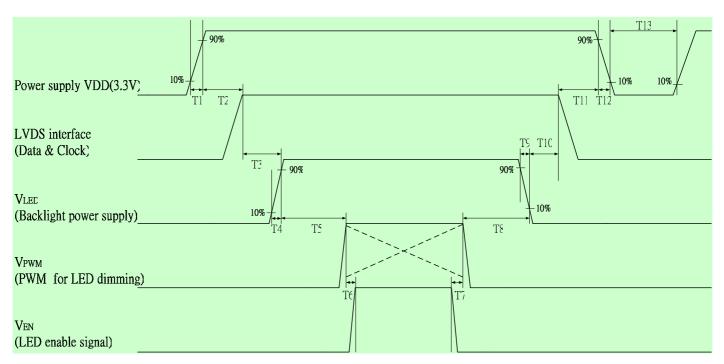


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#### 6.5 Power ON/OFF Sequence

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



Note:If

	Power Sequence Timing						
	Value			Units			
Parameter	Min.	Тур.	Max.	Onits			
T1	0.5	-	10				
T2	0	-	50				
Т3	200	-	-				
T4	0.5	-	10				
Т5	10	-	-				
Т6	10	-	-				
<b>T</b> 7	0	-	-	ms			
Т8	10	-	-				
Т9	0	-	10				
T10	200	-	-				
T11	0	-	50				
T12	0	-	10				
T13	400	-	-				

T3,T5,T6 couldn't match above specifications, must request <u>T3+T5+T6 > 200ms</u> at least



## 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℃, 90%RH, 300h	
High Temperature Operation	Ta= 50℃, Dry, 300h	
Low Temperature Operation	Ta= 0℃, 300h	
High Temperature Storage	Ta= 60℃, 35%RH, 300h	
Low Temperature Storage	Ta= -20℃, 50%RH, 250h	
Thermal Shock Test	Ta=-20℃to 60℃, Duration at 30 min, 100 cycles	
ESD	Contact : ±8 KV	Note 1
LSD	Air: ±15 KV	

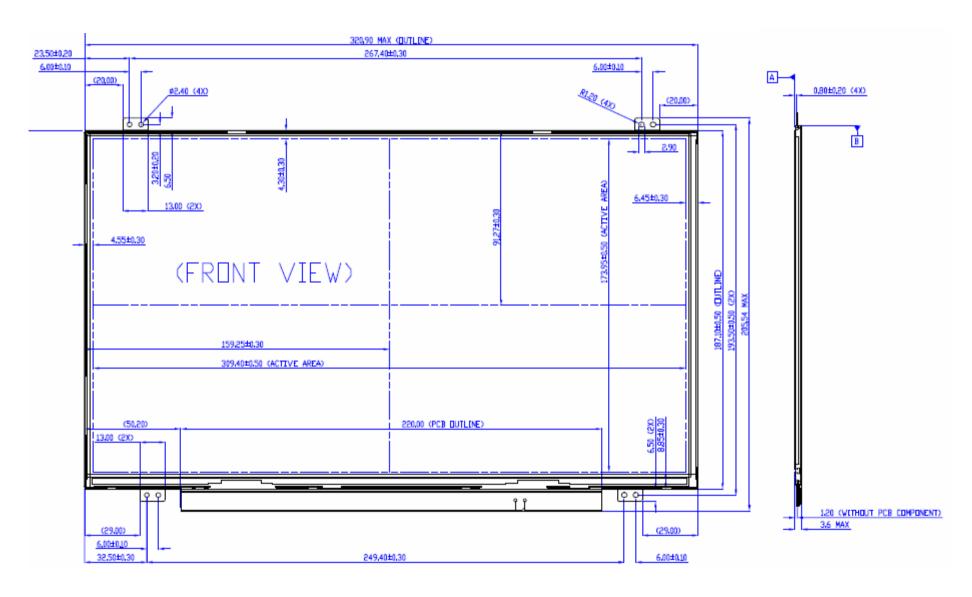
Note1: According to EN 61000-4-2, ESD class B: Some performance degradation allowed. No data lost

. Self-recoverable. No hardware failures.

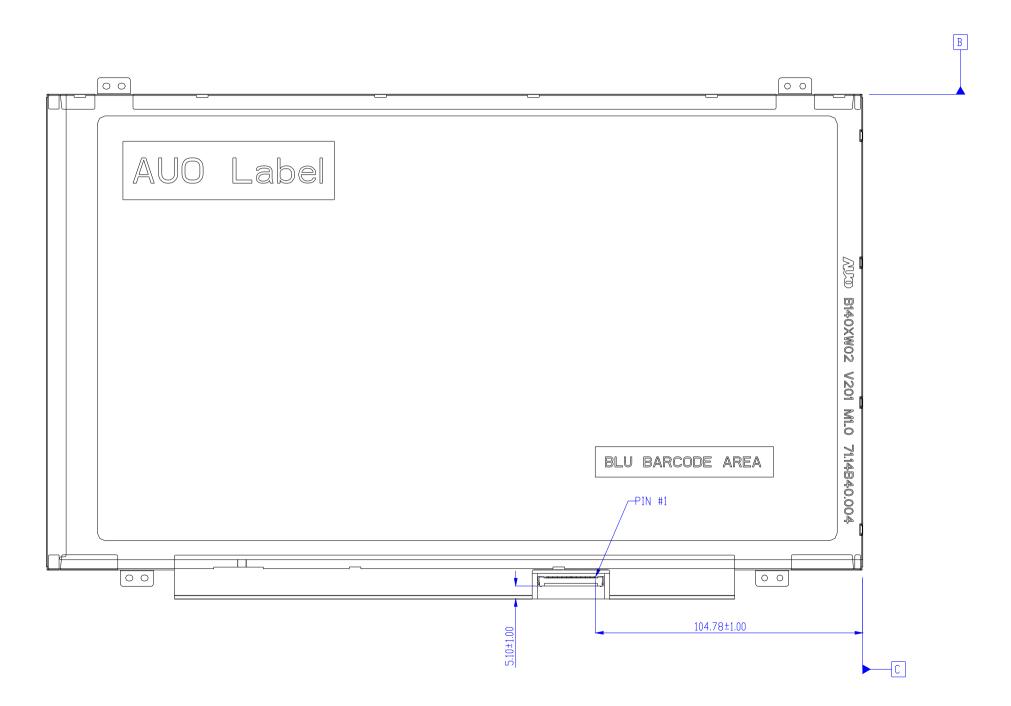
Remark: MTBF (Excluding the LED): 30,000 hours with a confidence level 90%

### 8. Mechanical Characteristics

### **8.1 LCM Outline Dimension**

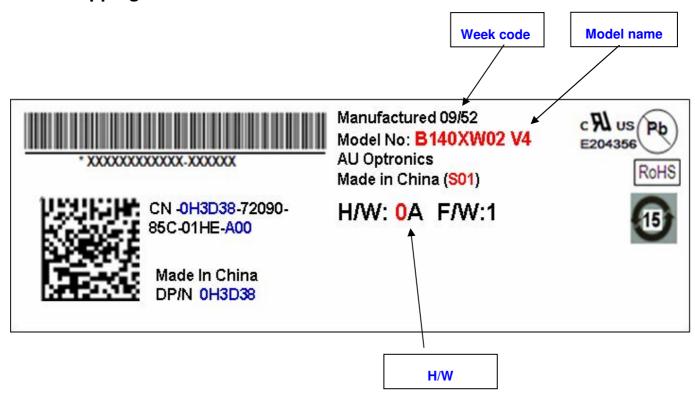


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## 9. Shipping and Package

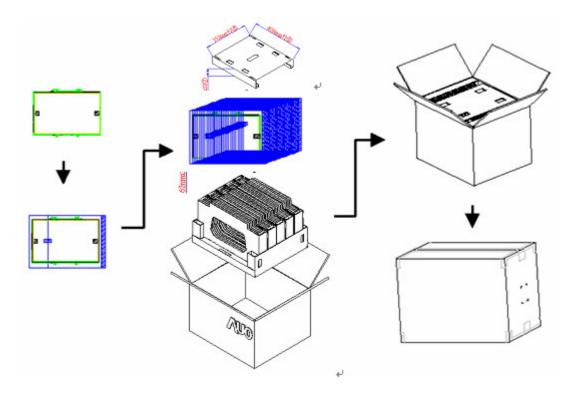
## 9.1 Shipping Label Format



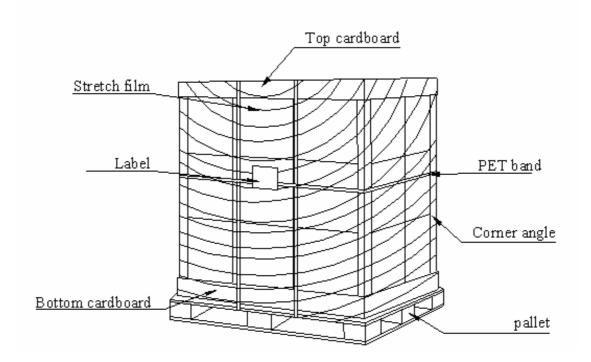
Bulld Name(s):	PPID Revision Code(s):
Sub System Test (SST) Working Sample (WS) ENG 2	X00, X01, X02,, X0n
Product Test (PT) Engineering Sample (ES) ENG 3	X10, X11, X12,, X1n
System Test (ST) Customer Sample (CS) ENG 4	X20, X21, X22, X2n
X-Build (XB) Mass Production (MP) ENG 5	A00, A01, A02, A0n

## 9.2 Carton Package

The outside dimension of carton is 455 (L)mm x 380 (W)mm x 355 (H)mm



## 9.3 Shipping Package of Palletizing Sequence



# 10. Appendix: EDID Description

Chex   Chex   Chinary   Chinary   Chinary   Chinary   Chinary   Chinary	Byte	Field Name and Comments	Value	Value	Value
1	(hex)	Field Name and Comments	(hex)	(binary)	(DEC)
2	0	Header	00	00000000	0
3	1	Header	FF	11111111	255
4         Header         FF         111111111         21           5         Header         FF         11111111         22           6         Header         FF         11111111         22           7         Header         00         00000000         6           8         EISA manufacture code (Compressed ASCII)         AF         10101111         11           0A         Panel Supplier Reserved – Product Code         3C         00111100         6           0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           10         Week of manufacture         13         00000000         0           11         Year of manufacture         13         00000000         0           12	2	Header	FF	11111111	255
5         Header         FF         111111111         21           6         Header         FF         111111111         22           7         Header         00         00000000         0           8         EISA manufacture code (Compressed ASCII)         AF         10101111         17           0A         Panel Supplier Reserved – Product Code         3C         00111100         6           0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0E         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           1D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           1D         Week of manufacture	3	Header	FF	11111111	255
6         Header         FF         11111111         21           7         Header         00         00000000         0           8         EISA manufacture code = 3 Character ID         06         00000110         0           9         EISA manufacture code (Compressed ASCII)         AF         10101111         11           0A         Panel Supplier Reserved – Product Code         3C         00111100         6           0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           1D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         000000000         0           1D	4	Header	FF	11111111	255
7         Header         00         00000000         (           8         EISA manufacture code (Compressed ASCII)         AF         10101111         11           0A         Panel Supplier Reserved – Product Code         3C         00111100         6           0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           10         Week of manufacture         00         00000000         0           11         Year of manufacture         13         00010011         1           12         EDID structure version # = 1         01         00000000         0           13         EDID revision # = 3         04         00000100         0           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-bit))         90         10010000         1           15         Max H image size = cm(Rounded to cm)         1F         00011111<	5	Header	FF	11111111	255
8         EISA manufacture code = 3 Character ID         06         00000110         6           9         EISA manufacture code (Compressed ASCII)         AF         10101111         11           0A         Panel Supplier Reserved – Product Code         3C         00111100         6           0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           10         Week of manufacture         00         00000000         0           11         Year of manufacture         13         00010011         1           12         EDID structure version # = 1         01         00000000         0           13         EDID revision # = 3         04         00000100         0           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-bit))         90         10010000         1           15         Max H image size = cm(Rounded to cm)         <	6	Header	FF	11111111	255
9 EISA manufacture code (Compressed ASCII)  0A Panel Supplier Reserved – Product Code  0B Panel Supplier Reserved – Product Code  0B Panel Supplier Reserved – Product Code  0C LCD module Serial No - Preferred but Optional ("0" if not used)  0D LCD module Serial No - Preferred but Optional ("0" if not used)  0D LCD module Serial No - Preferred but Optional ("0" if not used)  0D LCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred but Optional ("0" if not used)  0D UCD module Serial No - Preferred b	7	Header	00	00000000	0
0A         Panel Supplier Reserved – Product Code         3C         00111100         6           0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (         0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (         0           10         Week of manufacture         00         00000000 (         0         0           11         Year of manufacture         13         0010011 1         1         1         2         EDID structure version # = 1         01         00000000 1         1         1         2         EDID revision # = 3         04         00000100 1         1         1         1         2         EDID revision # = 3         04         00000100 1         1         1         1         1         00000010 1         1         1         1         0         00000010 1         1         1         1         0         00000010 1         1         1         0         0         0         0	8	EISA manufacture code = 3 Character ID	06	00000110	6
0B         Panel Supplier Reserved – Product Code         24         00100100         3           0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           0E         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           1D         Week of manufacture         00         00000000         0           11         Year of manufacture         13         00010011         1           12         EDID structure version # = 1         01         00000000         0           13         EDID revision # = 3         04         00000100         0           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))         90         10010000         1           15         Max H image size = cm(Rounded to cm)         1F         00011111         3           16         Max V image size = cm(Rounded to cm)         11         00100001         1           17         = 120         78         01111000         12           18         Feature support (no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A         02<	9	EISA manufacture code (Compressed ASCII)	AF	10101111	175
0C         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           0E         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           10         Week of manufacture         00         00000000 (0           11         Year of manufacture         13         00010011 1           12         EDID structure version # = 1         01         00000001 6           13         EDID revision # = 3         04         00000100 6           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))         90         10010000 1           15         Max H image size = cm(Rounded to cm)         1F         00011111 3           16         Max V image size = cm(Rounded to cm)         11         00010001 1           17         = 120         78         01111100 1           18         Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A         02         00000010 2           19         Red/Green Low bit (RxRy/GxGy)         C8         11001010 1	0A	Panel Supplier Reserved – Product Code	3C	00111100	60
0D         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           0E         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000 (0           10         Week of manufacture         00         00000000 (0           11         Year of manufacture         13         00010011 1           12         EDID structure version # = 1         01         00000001 -           13         EDID revision # = 3         04         00000100 -           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))         90         10010000 -           15         Max H image size = cm(Rounded to cm)         1F         00011111 3           16         Max V image size = cm(Rounded to cm)         11         00010001 1           17         = 120         78         01111000 12           18         Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A         02         00000010 2           19         Red/Green Low bit (RxRy/GxGy)         C8         11001000 2         2           10         Red Y         Ry = 0.         57         01010111 8	0B	Panel Supplier Reserved – Product Code	24	00100100	36
0E         LCD module Serial No - Preferred but Optional ("0" if not used)         00         000000000 (00000000)           0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         000000000 (00000000)           10         Week of manufacture         00         000000000 (0000000)           11         Year of manufacture         13         00010011 (1)           12         EDID structure version # = 1         01         00000001 (1)           13         EDID revision # = 3         04         00000100 (4)           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))         90         10010000 (1)           15         Max H image size = cm(Rounded to cm)         1F         00011111 (3)           16         Max V image size = cm(Rounded to cm)         11         00010001 (1)           17         = 120         78         01111000 (1)           18         Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A         02         00000010 (2)           19         Red/Green Low bit (RxRy/GxGy)         C8         11001000 (2)           1A         Blue/White Low bit (BxBy/WxWy)         A5         10101111 (1)           1B         Red Y         Ry = 0.         57         01010111 (3)	0C	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0F         LCD module Serial No - Preferred but Optional ("0" if not used)         00         00000000         0           10         Week of manufacture         00         00000000         0           11         Year of manufacture         13         00010011         1           12         EDID structure version # = 1         01         00000001         2           13         EDID revision # = 3         04         00000100         4           14         Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))         90         10010000         14           15         Max H image size = cm(Rounded to cm)         1F         00011111         3           16         Max V image size = cm(Rounded to cm)         11         00010001         1           17         = 120         78         01111000         12           18         Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A         02         00000010         2           19         Red/Green Low bit (RxRy/GxGy)         C8         11001000         20           1A         Blue/White Low bit (BxBy/WxWy)         A5         10101111         15           1B         Red X         Rx = 0.         9E         10011111         15	0D	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
10       Week of manufacture       00       000000000       0000000000       000000000       000000000	0E	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
11       Year of manufacture       13       00010011       1         12       EDID structure version # = 1       01       00000001       1         13       EDID revision # = 3       04       00000100       4         14       Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))       90       10010000       14         15       Max H image size = cm(Rounded to cm)       1F       00011111       3         16       Max V image size = cm(Rounded to cm)       11       00010001       1         17       = 120       78       01111000       12         18       Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       2         19       Red/Green Low bit (BxBy/WxWy)       A5       10100101       16         18       Red Y       Ry = 0.       9E       10011110       18         19       Green X       Rx = 0.       57       01010111       8         10       Green X       Rx = 0.       92       10010100       8         10       Green Y       Ry = 0.       92       100101001       14	0F	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
12   EDID structure version # = 1	10	Week of manufacture	00	00000000	0
13       EDID revision # = 3       04       00000100       4         14       Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))       90       10010000       14         15       Max H image size = cm(Rounded to cm)       1F       00011111       3         16       Max V image size = cm(Rounded to cm)       11       00010001       1         17       = 120       78       01111000       12         18       Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       20         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       0010010       14         1F       Blue Y       Ry = 0.       99       10011001       15         20       Blue Y       Ry = 0.       50       01010000       8	11	Year of manufacture	13	00010011	19
14       Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))       90       10010000       14         15       Max H image size = cm(Rounded to cm)       1F       00011111       3         16       Max V image size = cm(Rounded to cm)       11       00010001       1         17       = 120       78       01111000       12         18       Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       26         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010000       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       99       10011001       15         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8	12	EDID structure version # = 1	01	00000001	1
15       Max H image size = cm(Rounded to cm)       1F       00011111       3         16       Max V image size = cm(Rounded to cm)       11       00010001       1         17       = 120       78       01111000       12         18       Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       20         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       12         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8	13	EDID revision # = 3	04	00000100	4
16       Max V image size = cm(Rounded to cm)       11       00010001       1         17       = 120       78       01111000       12         18       Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       20         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       92       10010010       14         1F       Blue X       Rx = 0.       92       10010010       14         1F       Blue Y       Ry = 0.       99       10011001       15         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8	14	Video I/P definition = Digital I/P (90 (6-bit) or A0 (8-Bit))	90	10010000	144
Display gamma	15	Max H image size = cm(Rounded to cm)	1F	00011111	31
17       = 120       78       01111000       12         18       Feature support (no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       20         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8	16	Max V image size = cm(Rounded to cm)	11	00010001	17
18       Feature support ( no DPMS, Active off, RGB, timing BLK 1) ==> fix=0A       02       00000010       2         19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       20         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8	17	, , , , , , , , , , , , , , , , , , , ,	78	01111000	120
19       Red/Green Low bit (RxRy/GxGy)       C8       11001000       20         1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8					2
1A       Blue/White Low bit (BxBy/WxWy)       A5       10100101       16         1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8		1			200
1B       Red X       Rx = 0.       9E       10011110       15         1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8					165
1C       Red Y       Ry = 0.       57       01010111       8         1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8					158
1D       Green X       Rx = 0.       54       01010100       8         1E       Green Y       Ry = 0.       92       10010010       14         1F       Blue X       Rx = 0.       26       00100110       3         20       Blue Y       Ry = 0.       99       10011001       15         21       White X       Rx = 0.       50       01010000       8	1C				87
1E     Green Y     Ry = 0.     92     10010010     14       1F     Blue X     Rx = 0.     26     00100110     3       20     Blue Y     Ry = 0.     99     10011001     15       21     White X     Rx = 0.     50     01010000     8					84
1F     Blue X     Rx = 0.     26     00100110     3       20     Blue Y     Ry = 0.     99     10011001     15       21     White X     Rx = 0.     50     01010000     8					146
20     Blue Y     Ry = 0.     99     10011001     15       21     White X     Rx = 0.     50     01010000     8					38
21 White X Rx = 0. 50 01010000 8	20				153
					80
	22				84
23 Established timings 1 (00h if not used) 00 00000000 0	23		00		0
		-			0

25	Manufacturer's timings (00h if not used)	00	00000000	0
26	Standard timing ID1 (01h if not used)	01	00000001	1
27	Standard timing ID1 (01h if not used)	01	00000001	1
28	Standard timing ID2 (01h if not used)	01	00000001	1
29	Standard timing ID2 (01h if not used)	01	00000001	1
2A	Standard timing ID3 (01h if not used)	01	00000001	1
2B	Standard timing ID3 (01h if not used)	01	00000001	1
2C	Standard timing ID4 (01h if not used)	01	00000001	1
2D	Standard timing ID4 (01h if not used)	01	00000001	1
2E	Standard timing ID5 (01h if not used)	01	00000001	1
2F	Standard timing ID5 (01h if not used)	01	00000001	1
30	Standard timing ID6 (01h if not used)	01	00000001	1
31	Standard timing ID6 (01h if not used)	01	00000001	1
32	Standard timing ID7 (01h if not used)	01	00000001	1
33	Standard timing ID7 (01h if not used)	01	00000001	1
34	Standard timing ID8 (01h if not used)	01	00000001	1
35	Standard timing ID8 (01h if not used)	01	00000001	1
36	Pixel Clock/10,000 (LSB)	12	00010010	18
37	Pixel Clock/10,000 (MSB)	1B	00011011	27
38	Horizontal Active = pixels (lower 8 bits)	56	01010110	86
39	Horizontal Blanking (Thbp) = 320 pixels (lower 8 bits)	46	01000110	70
3A	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000	80
3B	Vertical Active = lines	00	00000000	0
3C	Vertical Blanking (Tvbp) = lines (DE Blanking typ. for DE only panels)	23	00100011	35
3D	Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000	48
3E	Horizontal Sync, Offset (Thfp) = pixels	26	00100110	38
3F	Horizontal Sync, Pulse Width = pixels	16	00010110	22
40	Vertical Sync, Offset (Tvfp) = lines Sync Width = lines	36	00110110	54
41	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
42	Horizontal Image Size = mm	35	00110101	53
43	Vertical image Size = mm	AD	10101101	173
44	Horizontal Image Size / Vertical image size	10	00010000	16
45	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
46	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
47	Bit[7] 0: Non-interlace, 1: Interlace Bit[6:5] 00: Normal display, no strero, see VESA EDID Spec 1.3 Bit[4:3] 00: Analog composite, 01: Bipolar analog composite, 10: Digital composite, 11: Digital separate Bit[2:1] : The int	1A	00011010	26
48	Pixel Clock/10,000 (LSB)	12	00010010	18
	Pixel Clock/10,000			
49	(MSB)	1B	00011011	27

4A	Horizontal Active = xxxx pixels (lower 8 bits)	56	01010110	86
4B	Horizontal Blanking (Thbp) = xxxx pixels (lower 8 bits)	46	01000110	70
4C	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000	80
4D	Vertical Active = xxxx lines	00	00000000	0
4E	Vertical Blanking (Tvbp) = xxxx lines (DE Blanking typ. for DE only panels)	23	00100011	35
4F	Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000	48
50	Horizontal Sync, Offset (Thfp) = xxxx pixels	26	00100110	38
51	Horizontal Sync, Pulse Width = xxxx pixels	16	00010110	22
52	Vertical Sync, Offset (Tvfp) = xx lines Sync Width = xx lines	36	00110110	54
53	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
54	Horizontal Image Size =xxx mm	35	00110101	53
55	Vertical image Size = xxx mm	AD	10101101	173
56	Horizontal Image Size / Vertical image size	10	00010000	16
57	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
58	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
	Bit[7] 0: Non-interlace, 1: Interlace Bit[6:5] 00: Normal display, no strero, see VESA EDID Spec 1.3 Bit[4:3] 00: Analog composite, 01: Bipolar analog composite, 10: Digital composite, 11: Digital separate			
59	Bit[2:1] : The int	1A	00011010	26
5A	Flag	00	00000000	0
5B	Flag	00	00000000	0
5C	Flag	00	00000000	0
5D	Data Type Tag: Alphanumeric Data String (ASCII) ==> fix=FE	FE	111111110	254
5E	Flag	00	00000000	0
5F	Dell P/N 1 <sup>st</sup> Character	48	01001000	72
60	Dell P/N 2 <sup>nd</sup> Character	33	00110011	51
61	Dell P/N 3 <sup>rd</sup> Character	44	01000100	68
62	Dell P/N 4 <sup>th</sup> Character	33	00110011	51
63	Dell P/N 5 <sup>th</sup> Character  EDID Revision Bit[6:0] See charts below Bit[7] 0: X-rev, 1: A-rev	38 80	10000000	56 128
65	Manufacturer P/N	42	01000010	66
66	Manufacturer P/N	31	00110001	49
67	Manufacturer P/N	34	00110100	52
68	Manufacturer P/N	30	00110000	48
69	Manufacturer P/N	58	01011000	88
6A	Manufacturer P/N	57	01010111	87
6B	Manufacturer P/N (If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	32	00110010	50
6C	Flag	00	00000000	0
6D	Flag	00	00000000	0

6E	Flag	00	00000000	0
6F	Data Type Tag: Manufacturer Specified Data 00 ==>fix=00	00	00000000	0
70	Flag	00	00000000	0
71	SMBUS Value = Nits ==> fix=00(for M09)	00	00000000	0
72	SMBUS Value = Nits ==> fix=00(for M09)	41	01000001	65
73	SMBUS Value = Nits ==> fix=00(for M09)	01	00000001	1
74	SMBUS Value = Nits ==> fix=00(for M09)	96	10010110	150
75	SMBUS Value = Nits ==> fix=00(for M09)	00	00000000	0
76	SMBUS Value = Nits ==> fix=00(for M09)	01	00000001	1
77	SMBUS Value = Nits ==> fix=00(for M09)	00	00000000	0
78	SMBUS Value = Nits ==> fix=00(for M09)	00	00000000	0
79	Bit[1:0] 00: reserved, 01: single LVDS, 10: dual LVDS, 11: reserved Bit[2] 0: No RTC support, 1: RTC support Bit[7:3] Reserved	01	00000001	1
7A	Bit[0] 0: No BIST support, 1: BIST support Bit[7:1] Reserved	01	00000001	1
7B	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	0A	00001010	10
7C	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7D	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7E	Extension flag (# of optional 128 EDID extension blocks to follow, Typ = 0)	00	00000000	0
7F	Checksum (The 1-byte sum of all 128 bytes in this EDID block shall = 0)	8B	10001011	139

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Sum 1900