

( V	) Preliminary	<b>Specification</b>
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) Final Specification

Module	14.0" (13.97") HD 16:9 Color TFT-LCD with LED Backlight design	
Model Name	B140XW03 V0 (0A)	
Note ( 🔒 )	LED Backlight with driving circuit design	

Customer	Date	Approved by	Date
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Note: This Specification is sub without notice.	ject to change	NBBU Market AU Optronics	_



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# **Record of Revision**

	Version and Dat	Pa	Old description	New Description	Remai
1	2009/07/14 0.1	Α	First Edition for Customer		
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### 1. Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
- 5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and 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

B140XW03 V0 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.

B140XW03 V0 is designed for a display unit of notebook style personal computer and industrial machine.

### 2.1 General Specification

Items	Unit	Specifications					
Screen Diagonal	[mm]	354, 14.0"(1	354, 14.0"(13.97")				
Active Area	[mm]	309.399 x 1	73.952				
Pixels H x V		1366 x 3(RC	GB) x 768				
Pixel Pitch	[mm]	0.2265 x 0.2	2265				
Pixel Format		B.G.R. Vert	ical 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		500 typ					
Response Time	[ms]	8 typ / 16 M	lax				
Nominal Input Voltage VDD	[Volt]	+3.3 typ.					
Power Consumption	[Watt]	TBD					
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		
		Thicknes - 3.6					
Electrical Interface		1 channel LVDS					
Glass Thickness	[mm]	0.5					
Surface Treatment		Glare, Hard	ness 3H,				



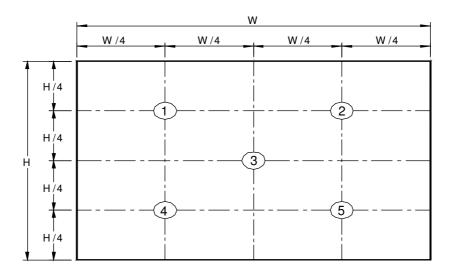
Support Color		262K colors ( RGB 6-bit )
Temperature Range Operating Storage (Non-Operating)	[°C]	0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

## 2.2 Optical Characteristics

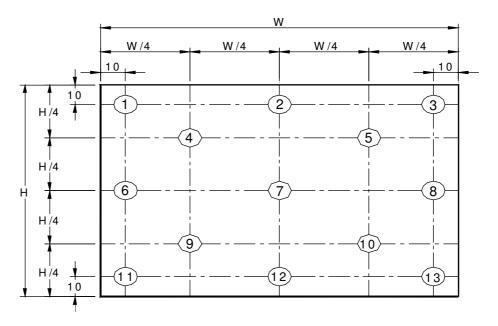
The optical characteristics are measured under stable conditions at 25°C (Room Temperature):

	Item Symbo Conditions		Min	Тур	Max	Uni	Not	
White Lun	ninance	Cymbe	5 points average	170	200	-	cd/m	1, 4,
Viewing Angle		θ <sub>R</sub> θ <sub>L</sub>	Horizontal (Right CR = 10 (Left)	40 40	45 45	-	degre	4
		<b>ф</b> н <b>ф</b> ∟	Vertical (Upper) CR = 10 (Lower)	10 30	15 35	-		4, 9
Luminance l	Jniformi	<b>δ</b> 5P	5 Points	-	-	1.2		1, 3,
Luminance l	Jniformi	<b>δ</b> 13P	13 Points	-	-	1.6		2, 3,
Contrast	Ratio	CR		400	500	-		4, 6
Cross	talk	%		-	-	4		4, 7
		Tr	Rising	-	2	-		
Response	e Time	T <sub>f</sub>	Falling	-	6	-	mse	4, 8
		T <sub>RT</sub>	Rising + Falling	-	8	16		
	Red	Rx		TBD	TBD	TBI		
	Heu	Ry		TBC	TBD	TBI		
	Gree	Gx		TBC	TBD	TBI		
Color / Chromaticit	aree	Gy		TBD	TBC	TBI		
Coodinates	Blue	Вх	CIE 1931	TBC	TBC	TBI		4
	DIU	Ву		TBC	TBC	TBI		
	Whit	Wx		0.26	0.31	0.36		
	VVIII	Wy		0.27	0.32	0.37		
NTS	С	%		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

	Maximum Brightness of five points
δ <sub>W5</sub> =	Minimum Brightness of five points
c	Maximum Brightness of thirteen points
$\delta_{W13} =$	Minimum Brightness of thirteen points

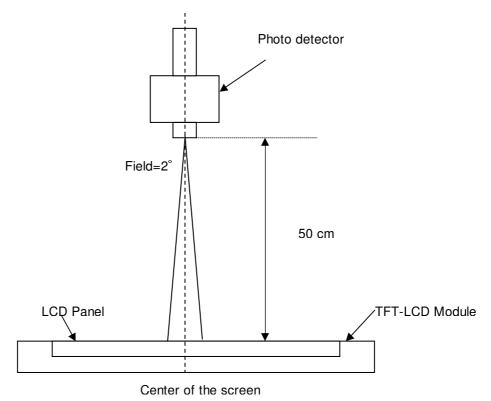
avinarina Driabtagga of five points

#### 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



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<sub>L</sub>):

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.

Note 7: Definition of Cross Talk (CT)

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

Where

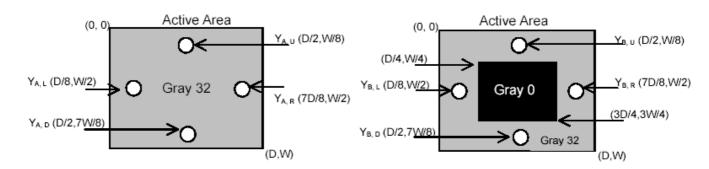
YA = Luminance of measured location without gray level 0 pattern (cd/m2)

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



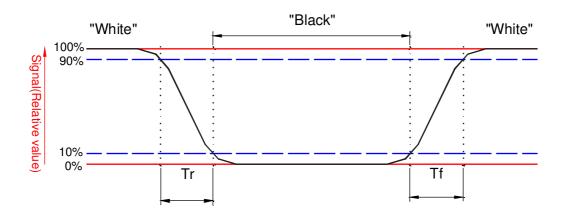
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Note 8: Definition of response time:

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



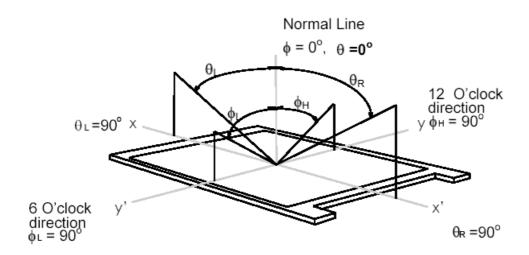


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#### Note 9. Definition of viewing angle

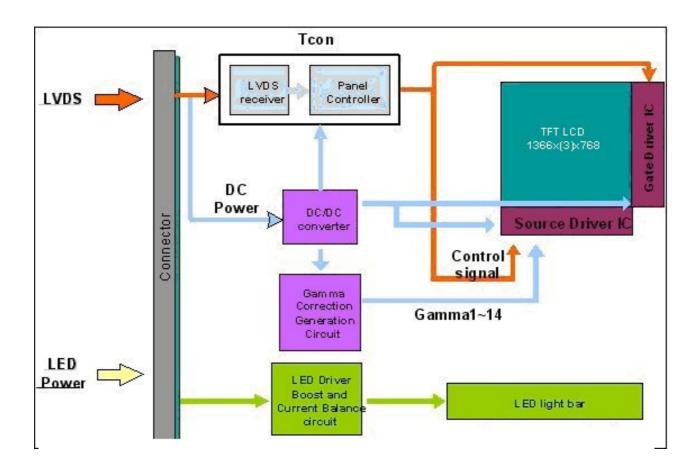
Viewing angle is the measurement of contrast ratio  $\geq 10$ , at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° ( $\theta$ ) horizontal left and right and 90° ( $\Phi$ ) vertical, high (up) and 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 Voltag	Vin	-0.3	+4.0	[Volt]	Note 1,2

4.2 Absolute Ratings of Environment

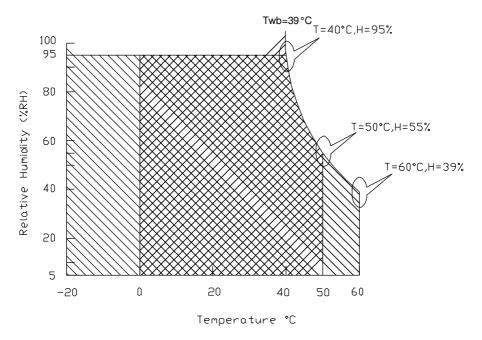
/ o o : a : a : g o o : = o :								
Item	Symbol	Min	Max	Unit	Conditions			
Operating Temperatur	TOP	0	+50	[°C]	Note 4			
Operation Humidity	НОР	5	95	[%RH]	Note 4			
Storage Temperature	TST	-20	+60	[°C]	Note 4			
Storage Humidity	HST	5	95	[%RH]	Note 4			

Note 1: At Ta (25°℃)

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

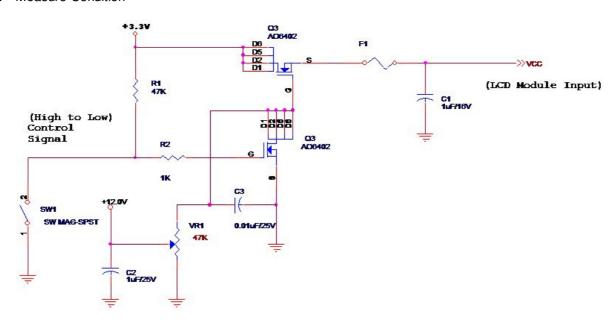
Input power specifications are as follows;

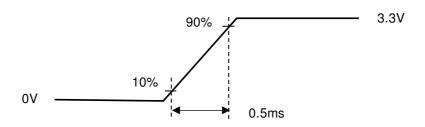
The power specification are measured under 25℃ and frame frenquency under 60Hz

Symble	Parameter	Mi	Тур	Max	Units	Note
VDD	Logic/LCD Drive Volt	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	_	1	1	[Watt]	Note 1
IDD	IDD Current	-	ı	333	[mA]	Note 1
IRush	Inrush Current	-	-	2000	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripp 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

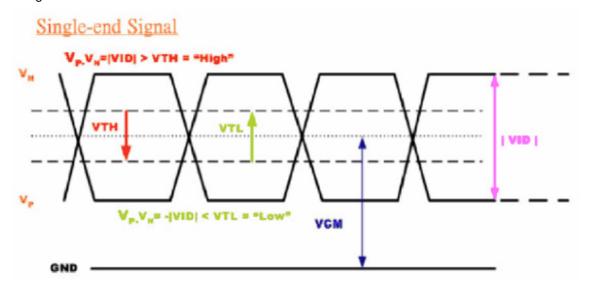
#### **5.1.2 Signal Electrical Characteristics**

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

Signal electrical characteristics are as follows;

Paramete	Condition	Min	Max	Unit
$V_{th}$	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 Commo Mode Voltage	1.125	1.375	[V]

Note: LVDS Signal Waveform





#### 5.2.1 LED characteristics

Parameter	Symbo	Min	Тур	Max	Unit	Condition
Backlight Power Consumption	PLED	,	-	TBD	[Wat	(Ta=25°ℂ), Note 1 Vin =12V
LED Life-Time	N/A	12,000	-	-	Hou	(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	Mir	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]	Interface (Ta=25°€)
PWM Input Frequency	FPWM	100	ı	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 <mark>G</mark> B	RGB		R G I	B R G B
	1		1	1	- 1
		,			.
			:	:	:
	;				
			•		
	:		·		;
			•		
	1	٠,	•	1	'
768 <sup>th</sup> Line₊	R G B	R G B		R G I	B R G B



## 6.2 The Input Data Format

RxCLKIN	ν	
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

Signal Name	Description	
R5	Red Data 5 (MSB)	Red-pixel Data
R4	Red Data 4	Each red pixel's brightness data consists of these
R3	Red Data 3	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 the
G3	Green Data 3	6 bits pixel data.
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
	Green-pixel Data	
B5	Blue Data 5 (MSB)	Blue-pixel Data
B4	Blue Data 4	Each blue pixel's brightness data consists of thes
B3	Blue Data 3	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 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
1/0	Mantha al Orma	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-12A or compatible
Mating Housing/Part Number	IPEX 20453-040T-11 or compatible

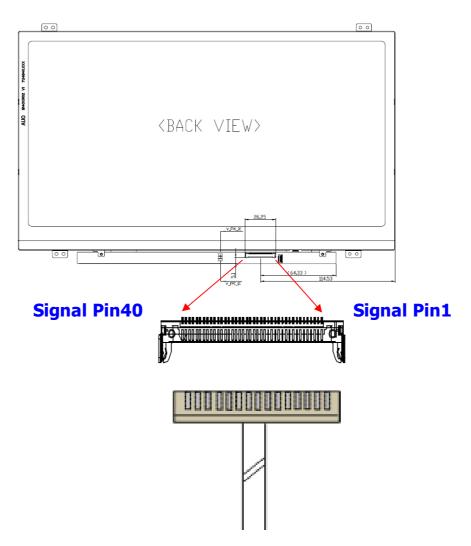
### 6.3.2 Pin Assignment

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

		B140XW03 V0
Р	Signal	Description
_	NC	No Connection (Reserve)
4	VDD	PowerSupply,3.3V(typical)
3	VDD	PowerSupply,3.3V(typical)
4	DVDD	DDC 3.3Vpower
Ş	NC	No Connection (Reserve)
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)
1	GND	Ground
1	Rin1-	-LVDS differential data input(G1-G5,B0-B1)
1	Rin1+	+LVDS differential data input(G1-G5,B0-B1)
1	GND	Ground
1	Rin2-	-LVDS differential data input(B2-B5,HS,VS,DE)
1	Rin2+	+LVDS differential data input(B2-B5,HS,VS,DE)
1	GND	Ground
1	ClkIN-	-LVDS differential clock input
1	ClkIN+	+LVDS differential clock input
1	CE_EN	Color Engine Control
2	NC	No Connection (Reserve)
2	NC	No Connection (Reserve)
2	GND	Ground
2	NC	No Connection (Reserve)



2	NC	No Connection (Reserve)
2	GND	Ground-Shield
2	NC	No Connection (Reserve)
2	NC	No Connection (Reserve)
2	GND	Ground-Shield
2	NC	No Connection (Reserve)
3	NC	No Connection (Reserve)
3	VLED_GNI	LED Ground
3	VLED_GNI	LED Ground
3	VLED_GNI	LED Ground
3	NC	No Connection (Reserve)
3	PWM	System PWM Signal Input
3	LED_EN	LED enable pin(+3V Input)
3	ECR_EN	Dynamic Backlight Control (High Enable)
3	VLED	LED Power Supply 7V-21V
3	VLED	LED Power Supply 7V-21V
4	VLED	LED Power Supply 7V-21V



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

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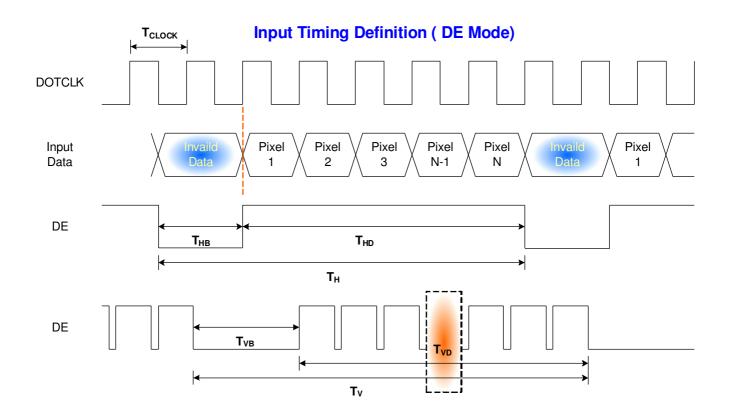
#### 6.4.1 Timing Characteristics

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

Parameter		Symbo	Min.	Тур.	Max.	Unit
Fra	Frame Rate		-	60	-	Hz
Clock	frequency	1/ T <sub>Cloc</sub>		72	-	MHz
	Period	T <sub>V</sub>	TBD	TBD	TBD	
Vertical	Active	T <sub>VD</sub>		TBD		$T_{Line}$
Section	Blanking	T <sub>VB</sub>	TBD	TBD	TBD	
	Period	T <sub>H</sub>	TBD	TBD	TBD	
Horizontal	Active	$T_{HD}$		TBD		$T_{Clock}$
Section	Blanking	T <sub>HB</sub>	TBD	TBD	TBD	

Note: DE mode only

#### 6.4.2 Timing diagram



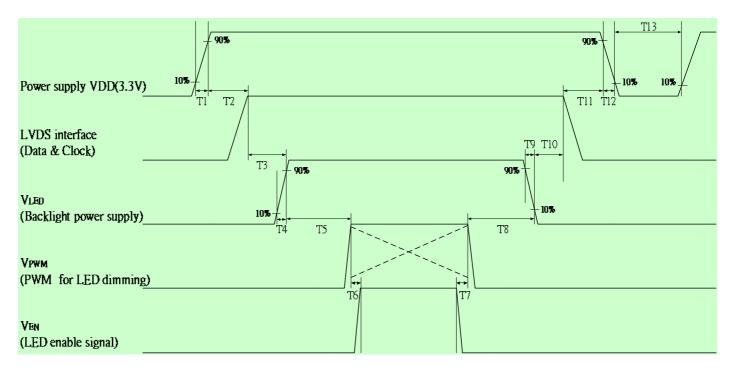


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#### 6.5 Power ON/OFF Sequence

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



		Powe	er Sequence T	iming	
			Units		
	Parameter	Min.	Тур.	Max.	
Notoulf	T1	0.5	-	10	
Note:If T3,T5,T6	Т2	0	-	50	
couldn't	Т3	200	-	-	
match above	T4	0.5	-	10	
pecifications	Т5	10	-	-	
must — equest —	Т6	10	-	-	
3+T5+T6 >	Т7	0	-	-	ms
200ms at	Т8	10	-	-	
least	Т9	0	-	10	
	T10	200	-	-	
	T11	0	-	50	
	T12	0	-	10	
	T13	400	-	-	



### 7. Panel Reliability Test

#### 7.1 Vibration Test

**Test Spec:** 

Test method: Non-Operation

Acceleration: 1.5 G

Frequency: 10 - 500Hz Random

30 Minutes each Axis (X, Y, Z) Sweep:

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

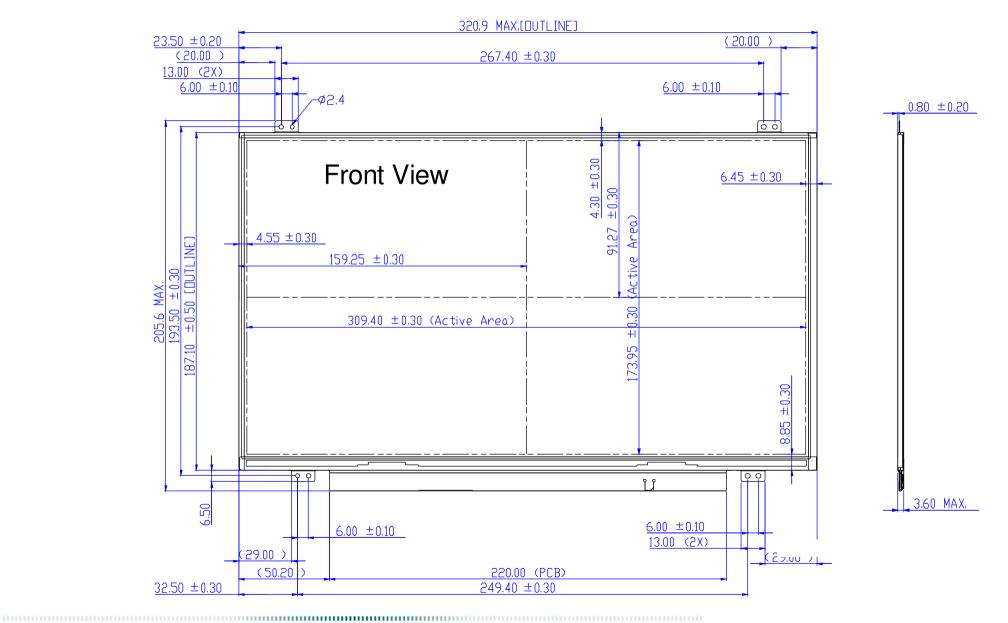
Note1: According to EN 61000-4-2, ESD class B: Some performance degradation allowed. No data lost

. Self-recoverable. No hardware failures.

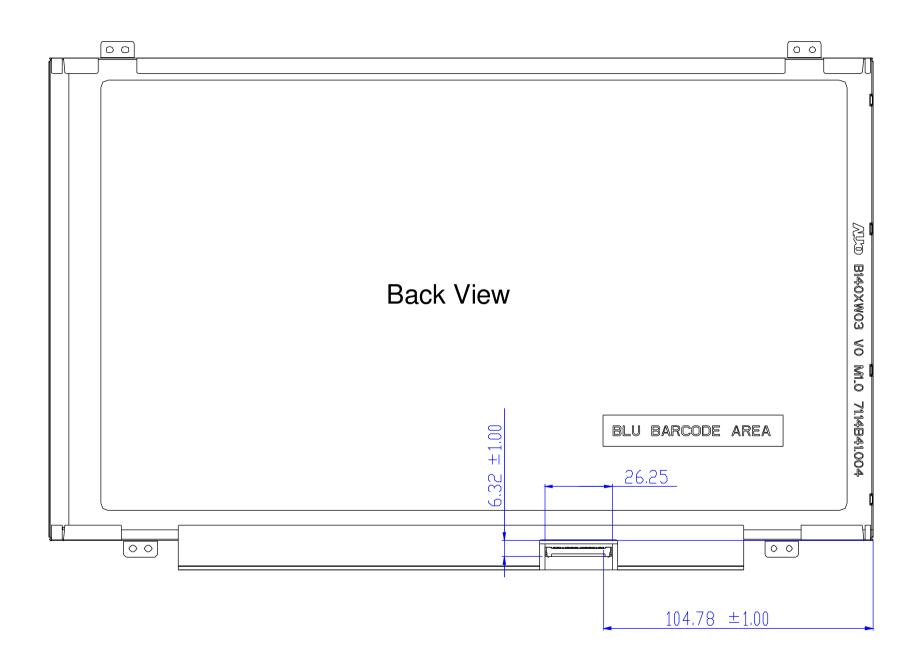
Remark: MTBF (Excluding the LED): 30,000 hours with a confidence level 90%

### 8. Mechanical Characteristics

#### **8.1 LCM Outline Dimension**

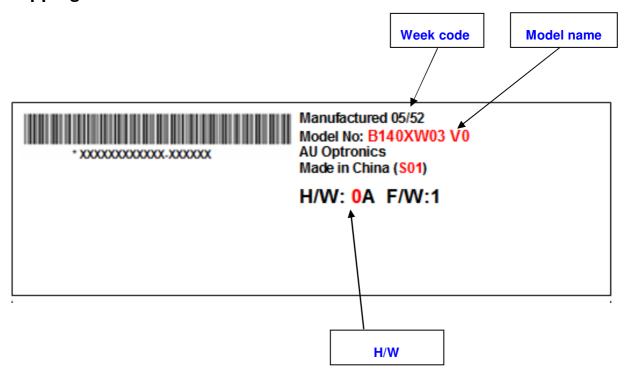


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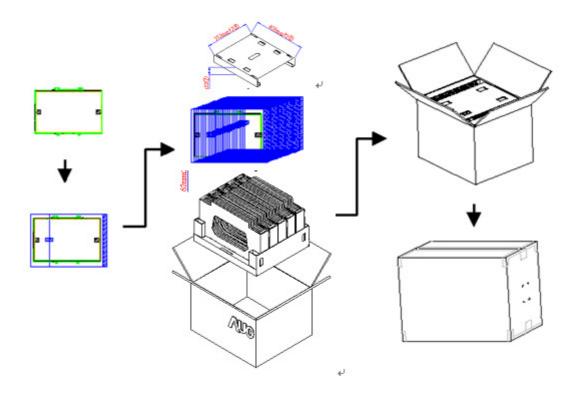
## 9. Shipping and Package

# 9.1 Shipping Label Format

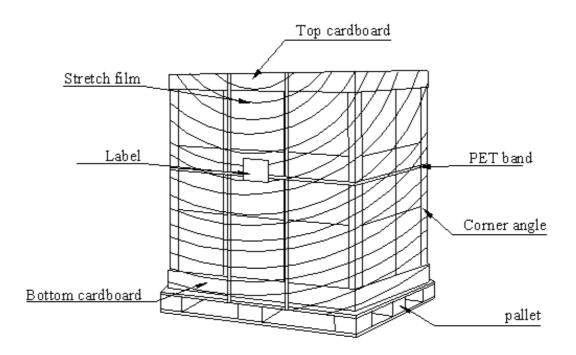


# 9.2 Carton Package

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

B140XW03 V0 EDID Code

Addres	FUNCTION	Valı	Value	Va
HEX		HE	BIN	D
00	Header	00	0000000	
01		FF	1111111	2
02		FF	1111111	2
03		FF	1111111	2
04		FF	1111111	2
05		FF	1111111	2
06		FF	1111111	2
07		00	0000000	
08	EISA Manuf. Code LSB	06	0000011	
09	Compressed ASCII	AF	1010111	1
0A	Product Code	3C	0011110	(
0B	hex, LSB first	30	0011000	4
0C	32-bit ser #	00	0000000	
0D		00	0000000	
0E		00	0000000	
0F		00	0000000	
10	Week of manufacture	01	0000000	
11	Year of manufacture	13	0001001	
12	EDID Structure Ver.	01	0000000	
13	EDID revision#	03	0000001	
14	Video input def. (digital I/P, non-TMDS, CRGB)	80	1000000	1
15	Max H image size (rounded to cm)	1 F	0001111	(
16	Max V image size (rounded to cm)	11	0001000	-
17	Display Gamma (=(gamma*100)-100)	78	0111100	1
18	Feature support (no DPMS, Active OFF, RGB, tmg Blk.	0A	0000101	
19	Red/green low bits (Lower 2:2:2:2 bits)	C8	1100100	2
1A	Blue/white low bits (Lower 2:2:2:2 bits)	<b>A</b> 5	1010010	1
1B	Red x (Upper 8 bits)	9E	1001111	1
1C	Red y/ highER 8 bits	57	0101011	8
1D	Green x	54	0101010	8
1E	Green y	92	1001001	1
1F	Blue x	26	0010011	(
20	Blue y	99	1001100	1
21	White x	50	0101000	8
22	White y	54	0101010	8
23	Established timing 1	00	0000000	
24	Established timing 2	00	0000000	
25	Established timing 3	00	0000000	
26	Standard timing #1	01	0000000	
27	<u> </u>	01	0000000	
28	Standard timing #2	01	0000000	
29		01	0000000	
2A	Standard timing #3	01	0000000	

Ī	İ			1
2B		01	0000000	1
2C	Standard timing #4	01	0000000	1
2D		01	0000000	1
2E	Standard timing #5	01	0000000	1
2F		01	0000000	1
30	Standard timing #6	01	0000000	1
31		01	0000000	1
32	Standard timing #7	01	0000000	1
33		01	0000000	1
34	Standard timing #8	01	0000000	1
35		01	0000000	1
36	Pixel Clock/10000 LSB	12	0001001	18
37	Pixel Clock/10000 USB	1B	0001101	27
38	Horz active Lower 8bits	56	0101011	86
39	Horz blanking Lower 8bits	46	0100011	70
3A	HorzAct:HorzBlnk Upper 4:4 bits	50	0101000	80
3B	Vertical Active Lower 8bits	00	0000000	0
3C	Vertical Blanking Lower 8bits	23	0010001	35
3D	Vert Act : Vertical Blanking (upper 4:4 bit)	30	0011000	48
3E	HorzSync. Offset	26	0010011	38
3F	HorzSync.Width	16	0001011	22
40	VertSync.Offset : VertSync.Width	36	0011011	54
41	Horz‖ Sync Offset/Width Upper 2bits	00	0000000	0
42	Horizontal Image Size Lower 8bits	35	0011010	53
43	Vertical Image Size Lower 8bits	ΑГ	1010110	17
44	Horizontal & Vertical Image Size (upper 4:4 bits)	10	0001000	16
45	Horizontal Border (zero for internal LCD)	00	0000000	0
46	Vertical Border (zero for internal LCD)	00	0000000	0
47	Signal (non-intr, norm, no stero, sep sync, neg pol)	18	0001100	24
48	Detailed timing/monitor	00	0000000	0
49	descriptor #2	00	0000000	0
4A		00	0000000	0
4B		0F	0000111	15
4C		00	0000000	0
4D		00	0000000	0
4E		00	0000000	0
4F		00	0000000	0
50		00	0000000	0
51		00	0000000	0
52		00	0000000	0
53		00	0000000	0
54		00	0000000	0
55		00	0000000	0
56		00	0000000	0
57		00	0000000	0
58		00	0000000	0
59		20	0010000	32
5A	Detailed timing/monitor	00	0000000	0
5B	descriptor #3	00	0000000	0

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7F	Checksum	5	0000010	5
7E	Extension Flag	00		0
7D		0A	0000101	10
7C		20	0010000	32
7B	Manufacture P/N	30	0011000	48
7A	Manufacture P/N  Manufacture P/N	<u></u>		86
79	Manufacture P/N  Manufacture P/N	20	0011001	32
78	Manufacture P/N Manufacture P/N	30 33	0011000 0011001	48 51
76 77	Manufacture P/N	57	0101011	87
75	Manufacture P/N	58		88
74	Manufacture P/N	30	0011000	48
73	Manufacture P/N	34	0011010	52
72	Manufacture P/N	31	0011000	49
71	Manufacture P/N	42	0100001	66
70		00	0000000	0
6F		FE	1111111	25
6E		00	0000000	0
6D	descriptor #4	00	0000000	0
6C	Detailed timing/monitor	00	0000000	0
6B		20	0010000	32
6A		20	0010000	32
69		20	0010000	32
68		20	0010000	32
67		20	0010000	32
66		20	0010000	32
65		20	0010000	32
64		20	0010000	32
63		20	0010000	32
62		0A	0000101	10
61	Manufacture	4F	0100111	79
60	Manufacture	55	0101010	85
5F	Manufacture	41	0100000	65
5E		00	0000000	0
5D		FE	1111111	25
5C		00	0000000	0

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