## **Chimei-Innolux Corporation**

### BT140GW01 V.9 LCD MODULE SPECIFICATION

(	) Preliminary	<ul><li>Specification</li></ul>
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: - :			
$( \bigcirc )$	Final	Specific	cation
\ <del>•</del> /		- p	

Customer	Checked & Approved by

Approved by	Checked by	Prepared by
MKT	PD	PM

Date: 2010/11/08

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Version: 11

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## Record of Revision

Record of Revision					
Version	Revise Date	Page	Content		
0	2010/04/07	All	First Edition issued		
1	2010/04/08	5	Pin Assignment		
		11	Power Sequence Timing Table		
		14	Backlight Driving Condition		
2	2010/04/13	16	Optical Specification		
3	2010/04/15	8	Typical Operating Condition		
4	2010/04/22	27~30	EDID		
5	2010/04/26	21	Label		
6	2010/05/19	16	Optical specifications		
7	2010/07/16	16	Optical specifications		
8	2010/08/11	4	General Specifications		
		14	Backlight driving conditions		
9	2010/08/25	1	Cover Page - Add 18G241400222* (Foxconn)		
		22	Label drawing		
		27	Label position		
10	2010/10/03	24	Package drawing change		
11	2010/11/08	22	Label Definition ( Revise model name position & Revise Carton P/N )		

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### 1. General Specifications

NO.	ltem	Specification	Unit
1	Display resolution (pixel)	1366(H) X 768(V), HD resolution	
2	Active area	309.40(H) X 173.95(V)	mm
3	Screen size	14.0 inches diagonal	Inches
4	Pixel pitch	0.2265(H) X 0.2265(V)	mm
5	Color configuration	Stripe	
6	Overall dimension	324(W) X 192.5(H) X 5.2(D) (max)	mm
7	Weight	350Max.	Grams
8	Surface treatment	Glare, 3H	
9	Input color signal	6 bit LVDS	
10	Display colors	262K (6 bit)	
11	Optimum viewing direction	6 o'clock	
12	Backlight	W-LED	
13	Glass thickness	0.5	mm
14	LED life time with LCM	12,000 (min.), T = 25°C	Hours
15	Backlight unit	LEDs 9X4	
16	Power Consumption	4.2 max @ Black Pattern	Watt
17	RoHS Compliance	Yes	

#### **Electrical Specifications**

#### 2-1 Pin Assignment

a. Panel connector

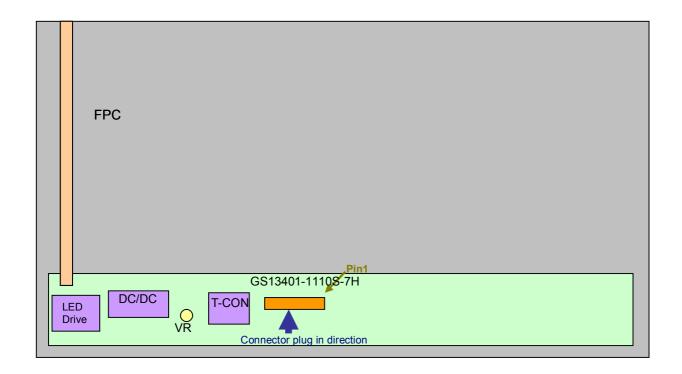
Connector Part No: GS13401-1110S-7H (Foxconn ) & 20455-040E-12 (I-PEX)

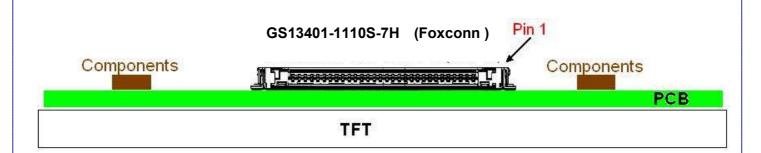
User's connector Part No: 20453-040T-12(I-PEX) or equivalent

Pin No	Symbol	Description	Remark
1	NC	No connection (Reserve)	
2	$V_{CC}$	Power Supply (+3.3V)	
3	V <sub>CC</sub>	Power Supply (+3.3V)	
4	$V_{EDID}$	DDC Power +3.3V	
5	NC	No connection (Reserve)	
6	Clk <sub>EDID</sub>	DDC Clock	
7	DATA <sub>EDID</sub>	DDC Data	
8	Rxin0-	Differential Data Input	D0 D5 00
9	Rxin0+	Differential Data Input	R0~R5,G0
10	GND	Ground	
11	Rxin1-	Differential Data Input	C4 C5 D0 D4
12	Rxin1+	Differential Data Input	G1~G5,B0,B1
13	GND	Ground	
14	Rxin2-	Differential Data Input	DO DE DE Have a Vavea
15	Rxin2+	Differential Data Input	B2~B5,DE,Hsync,Vsync
16	GND	Ground	
17	CLK-	Differential Clock Input	
18	CLK+	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	
26	NC	No connection (Reserve)	
27	NC	No connection (Reserve)	
28	GND	Ground	
29	NC	No connection (Reserve)	
30	NC	No connection (Reserve)	
31	LED_GND	LED Ground	
32	LED_GND	LED Ground	
33	LED_GND	LED Ground	
34	NC	No connection (Reserve)	
35	LED_PWM	PWM dimming signal input	
36	LED_EN	LED enable pin (3.3V)	
37	NC	No connection (Reserve)	
38	V_LED	LED power supply 6V~21V	
39	V_LED	LED power supply 6V~21V	
40	V_LED	LED power supply 6V~21V	

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b. General block diagram (Rear-side)





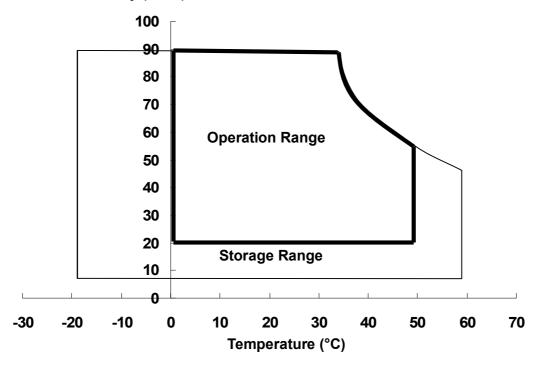
#### 2-2. Absolute Maximum Ratings

Parameter	Symbol	Va	lues	Unit	Remark
Farameter	Syllibol	Min.	Max.		Nemark
Power input voltage	V <sub>CC</sub>	- 0.3	4.0	V	<b>At 25</b> ℃
Signal input voltage	V <sub>IN</sub>	- 0.3	4.0	V	<b>At 25</b> ℃
LED input voltage	$V_{LED}$	- 0.3	30	V	At 25℃
Operating temperature	T <sub>OP</sub>	0	50	$^{\circ}\!\mathbb{C}$	Note 1
Storage temperature	T <sub>ST</sub>	- 20	60	$^{\circ}\!\mathbb{C}$	Note 2
Re-screw		-	5	Times	
Assured torque at side mount		-	2	kgf.cm	

Note 1: The relative humidity must not exceed 90%, non-condensing at temperatures of  $40^{\circ}$ C or less. At temperatures greater than  $40^{\circ}$ C, the wet bulb temperature must not exceed  $39^{\circ}$ C.

Note 2: The unit should not be exposed to corrosive chemicals.





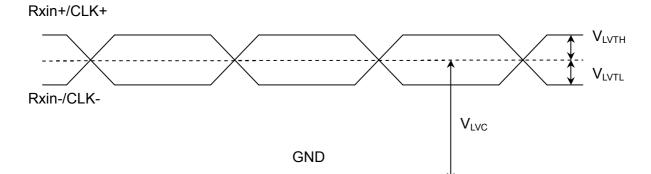
#### 2-3. Electrical Characteristics

#### a. Typical operating conditions

Item		Symbol	Min.	Тур.	Max.	Unit	Remark
Power inp	ut voltage	$V_{CC}$	3	3.3	3.6	V	
Permissive	e power input ripple	$V_{RF}$	-	-	0.1	V	
Power inp	ut current	I <sub>cc</sub>	-	300	330	mA	Note 1
Power con	Power consumption		-		1.0	Watts	Note 1
	Differential input high threshold voltage	$V_{LVTH}$	-	-	+100	mV	LVDS interface
LVDS	Differential input low threshold voltage	$V_{\scriptscriptstyle LVTL}$	-100	-	-	mV	
interface	Common input voltage	$V_{\text{LVC}}$	1.0	1.2	1.4	V	
	Terminating resistor	$R_{T}$	90	100	110	ohm	
Rush current		I <sub>Rush</sub>	-	-	1.5	Α	Note 3
LED rush current		I <sub>LED-Rush</sub>	-	-	3.0	А	Note 4

Note 1: The specified input current and power consumption are under the  $V_{cc}$  =3.3 V, 25°C,  $f_V$ =60Hz (frame frequency) condition whereas mosaic pattern is displayed.

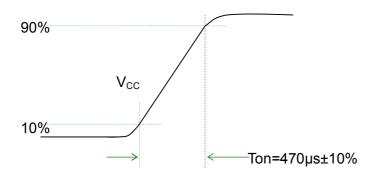
Note 2: LVDS waveform diagram



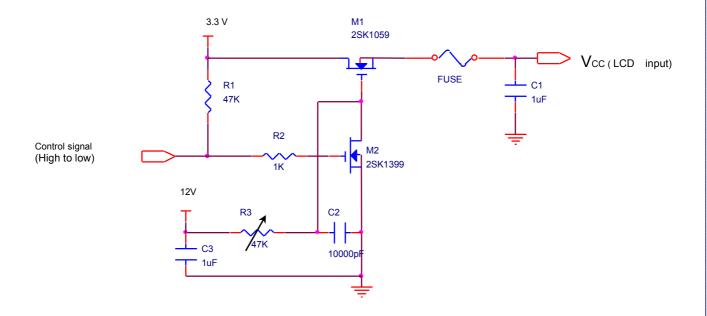
Note 3: Test condition

#### (1) Pattern: Black pattern

## (2) $V_{CC}$ = 3.3 V, $V_{CC}$ rising time = 470 $\mu$ s ± 10%

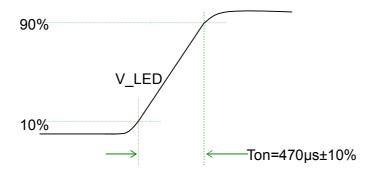


#### (3) Test circuit

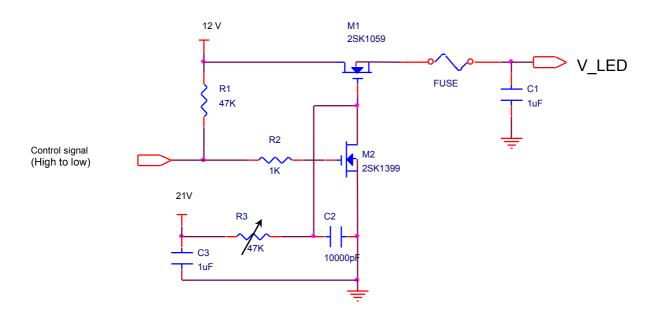


Note 4: Test condition

- (1) Pattern: LED duty 100%
- (2) V\_LED = 12.0V, V\_LED rising time = 470  $\mu$  s ± 10%



#### (3) Test circuit

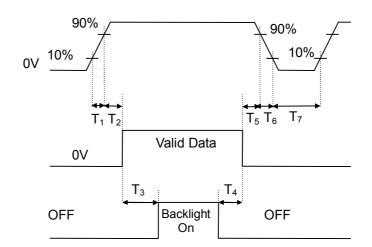


#### b. Power sequence

Power supply for LCD,  $V_{CC}$ 

Interface data signal, V<sub>i</sub> (LVDS signal of transmitter)

Backlight on/off

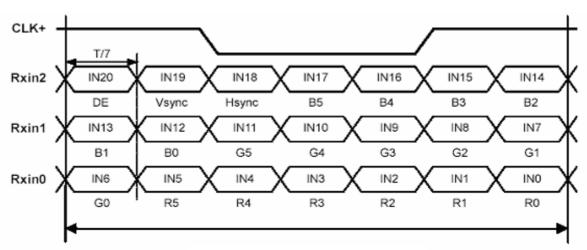


#### Power sequence timing table

Parameter		Units		
Parameter	Min.	Тур.	Max.	Units
T <sub>1</sub>	0.5	-	10	ms
T <sub>2</sub>	0	-	50	ms
T <sub>3</sub>	200	-	-	ms
T <sub>4</sub>	200	-	1	ms
T <sub>5</sub>	0	-	50	ms
T <sub>6</sub>	0.5	-	10	ms
T <sub>7</sub>	400	-	-	ms

#### c. Display color vs. input data signals

Signal Name	Description	Remark
R5	Red Data 5 (MSB)	Red-pixel data. Each red pixel's brightness data
R4	Red Data 4	consists of these 6 bits pixel data.
R3	Red Data 3	
R2	Red Data 2	
R1	Red Data 1	
R0	Red Data 0 (LSB)	
	Red-pixel Data	
G5	Green Data 5 (MSB)	Green-pixel data. Each green pixel's brightness
G4	Green Data 4	data consists of these 6 bits pixel data.
G3	Green Data 3	
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
	Green-pixel Data	
B5	Blue Data 5 (MSB)	Blue-pixel data. Each blue pixel's brightness data
B4	Blue Data 4	consists of these 6 bits pixel data.
В3	Blue Data 3	
B2	Blue Data 2	
B1	Blue Data 1	
В0	Blue Data 0 (LSB)	
	Blue-pixel Data	

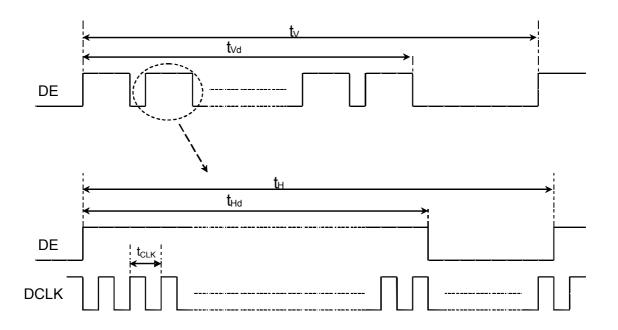


Signal for 1 DCLK cycle (t<sub>CLK</sub>)

## d. Input signal timing

Timing table

Description	Symbol	Min	Тур	Max	Unit
Frame rate		40	60		Hz
Clock freq.	1/t <sub>CLK</sub>	45	71	85	MHz
Line cycle time	t <sub>H</sub>	1400	1498	1800	t <sub>CLK</sub>
Line width-active	t <sub>Hd</sub>	1366	1366	1366	t <sub>CLK</sub>
Frame cycle time	t <sub>V</sub>	780	790	900	t <sub>H</sub>
V width-active	t <sub>Vd</sub>	768	768	768	t <sub>H</sub>



#### e. Display position

D(1, 1)	D(2, 1)	 D(683, 1)	 D(1365, 1)	D(1366, 1)
D(1, 2)	D(2, 2)	 D(683, 2)	 D(1365, 2)	D(1366, 2)
:		 :	 :	:
D(1, 384)	D(2, 384)	 D(683, 384)	 D(1365, 384)	D(1366, 384)
:		 :	 :	:
D(1, 767)	D(2, 767)	 D(683, 767)	 D(1365, 767)	D(1366, 767)
D(1, 768)	D(2, 768)	 D(683, 768)	 D(1365, 768)	D(1366, 768)

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#### f. Backlight driving conditions

Paran	Symbol	Min.	Тур.	Max.	Unit	Remark	
Converter Input power supply voltage		LED_Vccs	6	12	21	V	
LED forwar	rd voltage	V <sub>F</sub>	3	3.2	3.4	V	T = 25°C
EN Control Level	Backlight On		2.4	-	3.6	V	
	Backlight Off		0	-	0.8	V	
LED forward current		I <sub>F</sub>		20		mA	T = 25°C
LED newer o	1.50			2.8	3	W	T = 25°C,Note 1
LED power c	onsumption	P <sub>LED-G</sub>			1.2	W	Note 2
Input PWM	frequency	F <sub>PWM</sub>	190	1000	2000	Hz	T = 25°C
	LED_VCCS=Min		365	430	505		T = 25°C
Converter Input Current	LED_VCCS=Typ	lвL	178	210	247	mA	T = 25°C
	LED_VCCS=Max		98	115	135		T = 25°C
Duty	ratio	-	5		100	%	Note 3
LED life time	(LED only)	-	15,000			Hr	T = 25°C,Note 4

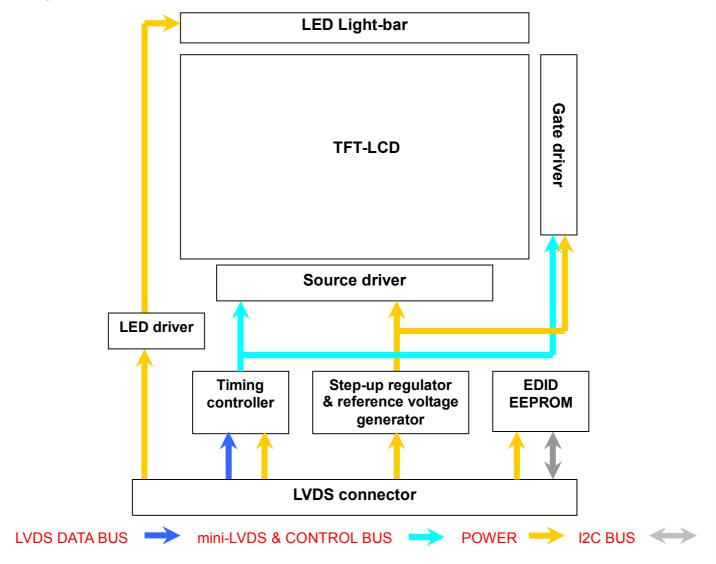
Note 1: Converter efficiency 85%(typ)

Note 2: The BL power consumption @100 nits with full white pattern under the  $V_{cc}$  =3.3 V, 25  $^{\circ}$  C, f<sub>V</sub>=60Hz (frame frequency) condition

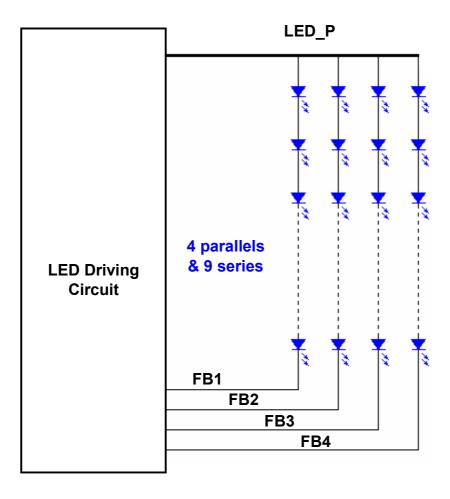
Note 3: PWM duty ratio linearity guarantees 10~100%.

Note 4: LED life time definition is brightness decrease to 50% of initial or abnormal lighting.

#### g. Module function block



#### h. LED circuit block



## 3. Optical specifications

#### Ambient temperature = 25°C

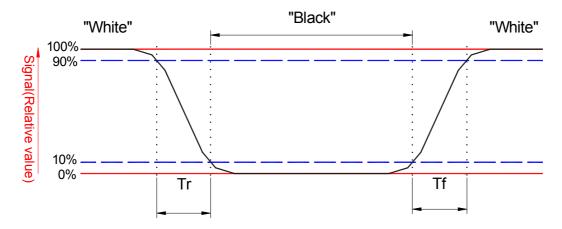
Item	Symbol	Condition	Sı	pecification	on			
item	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark	
Response time	Tr+Tf	θ= 0°		8	15	ms	Note 3	
Contrast ratio	CR	θ= 0°	500	600			Note 2,4	
	Тор		15					
	Bottom	CD > 10	30					
	Left	CR≧10	40					
V	Right		40				N. ( . 0 . 4 . 0	
Viewing angle	Тор		6			deg	Note 2,4,6	
	Bottom	00 > 400	11				1	
	Left	CR≥100	25					
	Right		25					
Brightness (5 points average)	Y <sub>L</sub>		190	220		nit	Note 2,5	
	W <sub>x</sub>			0.313				
	W <sub>y</sub>			0.329				
	R <sub>x</sub>			0.586				
0-1	R <sub>y</sub>	θ= 0°	-0.03	0.355	+0.03		Note 2	
Color chromaticity (CIE)	G <sub>x</sub>	Ð= U		0.323			11010 2	
	G <sub>y</sub>			0.57				
	B <sub>x</sub>			0.163				
	B <sub>y</sub>			0.141				
Color gamut	NTSC	CIE1931		45		%	-	
	$\delta_{W(5)}$				1.25			
White uniformity	δ <sub>W(13)</sub>				1.5		Note 2,7	
Cross talk	Ct				2%		Note 8	

Note 1: To be measured in dark room.

Note 2: To be measured with a viewing cone of 2°by Topcon luminance meter BM-5A.

#### Note 3: Definition of response time:

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



Note 4: Definition of contrast ratio:

Contrast ratio is calculated with the following formula:

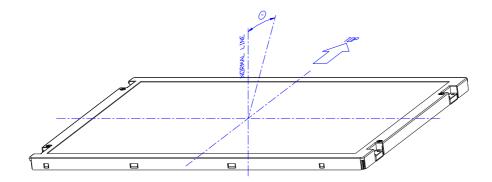
Contrast ratio (Avg of 5pts) = 
$$\frac{L \text{ white (Avg of 5pts.)}}{L \text{ Black (Avg of 5pts.)}}$$

Note 5: Driving current for LED should be 20 mA.

Luminance is measured at the following thirteen points (1~13):

$$Y_L = (Y5 + Y10 + Y11 + Y12 + Y13) / 5$$

Note 6: Definition of viewing angle

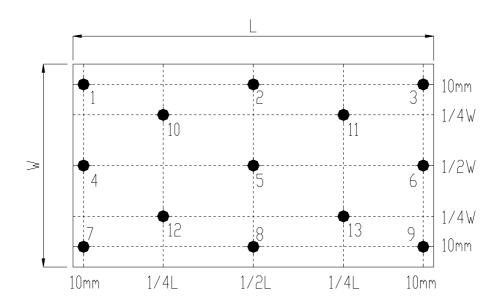


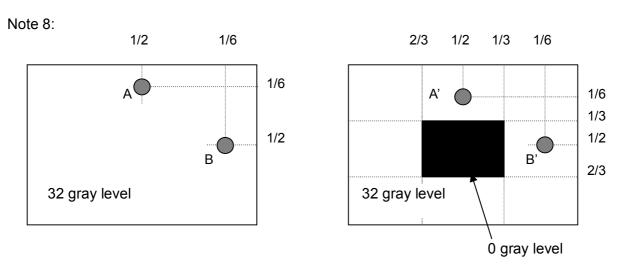
Note 7: Definition white uniformity

Luminance is measured at the following thirteen points (1~13):

$$\delta_{W(13)} = \frac{\text{Maximum brightness of thirteen points}}{\text{Minimum brightness of thirteen points}}$$
 
$$\delta_{W(5)} = \frac{\text{Maximum brightness of five points}}{\text{Minimum brightness of five points}}$$

13 point measuring locations refer to the point 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13. 5 point measuring locations refer to the point 5, 10, 11, 12 and 13.





Unit: percentage of dimension of display area

I  $L_A$ - $L_A$ , I /  $L_A$  x 100%= 2% max.,  $L_A$  and  $L_A$ , are brightness at location A and A, I  $L_B$ - $L_B$ , I /  $L_B$  x 100%= 2% max.,  $L_B$ , and  $L_B$ , are brightness at location B and B,

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#### 4. Reliability test items

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240 hours	Note 1	Note 2
Low temperature storage	-20°C, 240 hours	Note 1	Note 2
High temperature & high humidity operation	50℃, 80% RH, 240 hours (No condensation)	Note 1	Note 2
High temperature operation	50°C, 240 hours	Note 1	Note 2
Low temperature operation	0°ℂ, 240 hours	Note 1	Note 2
Thermal shock (Non-operation)	-20 $^{\circ}$ C / 30 mins ~ 60 $^{\circ}$ C / 30 mins 100 cycles	Note 1	Note 2
Electrostatic discharge (ESD)	150 pF, 330Ω, Contact: ±8kV, Air: ±15kV	Note 1	
Vibration (Non-operation)	1.5G, 10 to 500 Hz random; 0.5hr in each perpendicular axes ( X, Y, Z ).	Note 1	Note 2
Mechanical shock (Non-operation)	220G/2ms, Half sine wave, ±X, ±Y, ±Z one time for each direction	Note 1	Note 2

Note 1: Pass: Normal display image with no obvious non-uniformity and no line defect.

Fail: No display image, obvious non-uniformity, or line defects.

Partial transformation of the module parts should be ignored.

Note 2: Evaluation should be tested after storage at room temperature more than one hour.

#### 5. Safety

#### 5-1. Sharp edge requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

#### 5-2. Materials

#### a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

#### b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V0 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V0 or better. The actual UL flammability rating will be printed on the printed circuit board.

#### c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

#### 6. Display quality

The display quality of the color TFT-LCD module should be in compliance with the InnoLux incoming inspection standard.

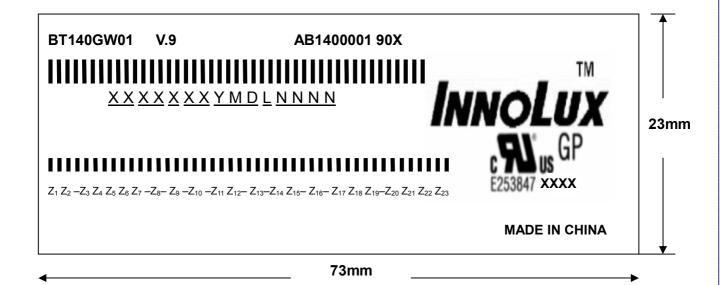
#### 7. Handling precaution

- (1) Do not apply rough force such as bending or twisting to the module during assembly.
- (2) To assemble or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel and backlight will be damaged.
- (4) Always follow the correct power sequence when LCD module is connecting and operating.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Do not disassemble the module.
- (7) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (8) It is dangerous that moisture come into or contacted the LCD module, because moisture may damage LCD module when it is operating.
- (9) High temperature or humidity may reduce the performance of module. Please store LCD module within the specified storage conditions.

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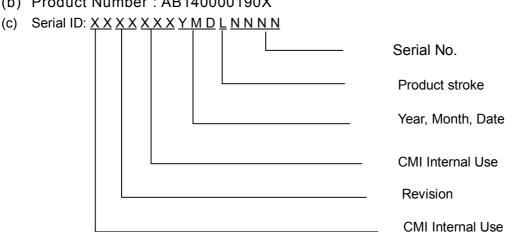
#### 8. Label Definition

#### 8-1. Module label



(a) Model Number: BT140GW01 V.9

(b) Product Number: AB140000190X



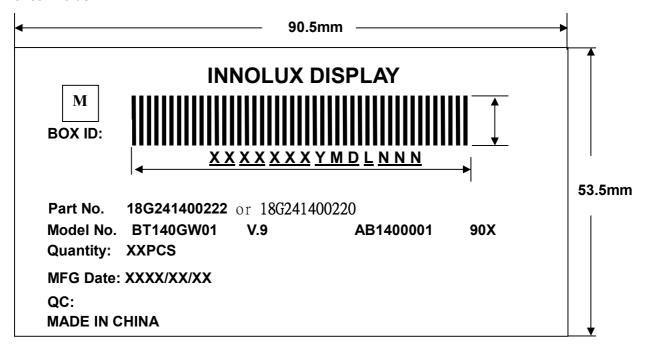
(d) Production Location: MADE IN XXXX.

(e) UL/CB logo: "XXXX" especially stands for panel manufactured by CMI Ningbo satisfying UL/CB requirement. "LEOO" "CANO" is the CMI's UL factory code for Ningbo factory.

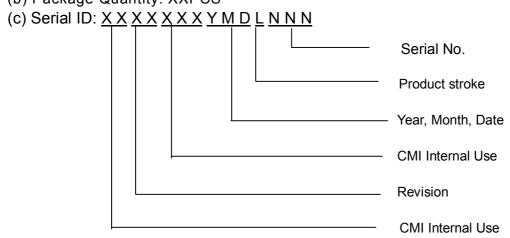
Serial ID II (INL Internal Use):

$$Z_1 \ Z_2 \ -Z_3 \ Z_4 \ Z_5 \ Z_6 \ Z_7 \ -Z_8 - \ Z_9 \ -Z_{10} \ -Z_{11} \ Z_{12} - \ Z_{13} - Z_{14} \ Z_{15} - \ Z_{16} - \ Z_{17} \ Z_{18} \ Z_{19} - Z_{20} \ Z_{21} \ Z_{22} \ Z_{23}$$

#### 8-2. Carton label



(a) Model No.: BT140GW01 V.9(b) Package Quantity: XXPCS



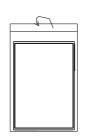
#### 9. Packing Form



∫ Step A
Put LCM into A/S bag



Step B
Turn back A/S bag

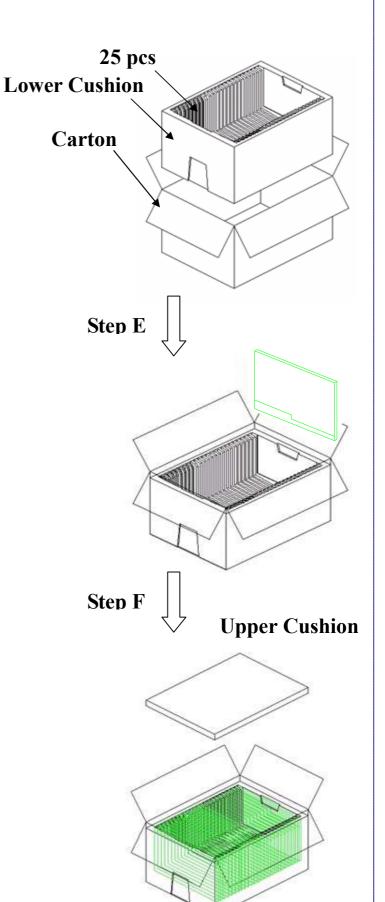


Step C

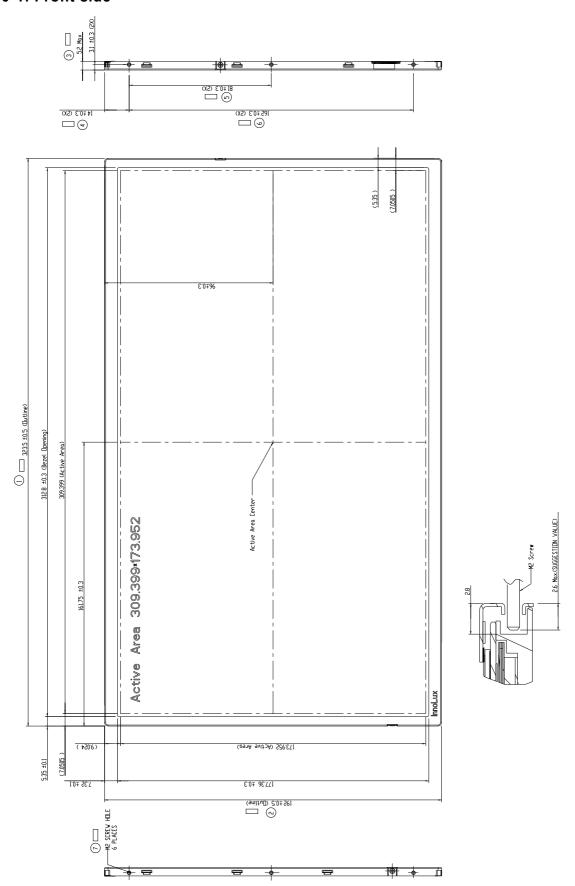


Step D

Put LCM with A/S bag into

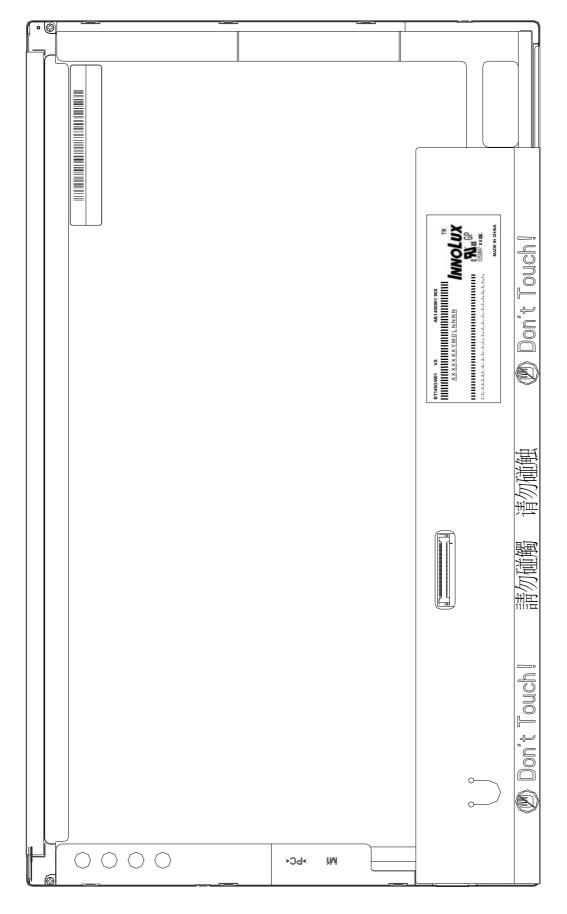


## 10. Mechanical Drawings 10-1. Front side



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#### 10-2 Rear side



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#### Appendix: EDID Code

	Byte (Hex)	Field Name and Comments	Value (Hex)	Value (Bin)
	00	Header	00	00000000
	01	Header	FF	11111111
	02	Header	FF	11111111
de	03	Header	FF	11111111
Header	04	Header	FF	11111111
	05	Header	FF	11111111
	06	Header	FF	11111111
	07	Header	00	00000000
	08	EISA manufacture code ( 3 Character ID ) "CMI"	<b>0D</b>	00001101
	09	EISA manufacture code (Compressed ASC II )	<b>A9</b>	10101001
	0A	Panel Supplier Reserved - Product Code "27"	1B	00000000
uct	0B	( Hex. LSB first )	00	00000000
od. rsic	0C	LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0D	LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
Vendor / Product EDID Version	0E	LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
ED	0F	LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
2	10	Week of Manufacture 00 weeks	00	00000000
	11	Year of Manufacture 2010 years	14	00010100
	12	EDID structure version # = 1	01	00000001
	13	EDID revision #= 3	03	00000011
S	14	Video input Definition = Digital signal	80	10000000
Display Parameters	15	Max H image size (Rounded cm) = 31 cm	<b>1F</b>	00011111
Display aramete	16	Max V image size (Rounded cm) = 18 cm	12	00010010
Di	17	Display gamma = $(gamma*100)-100 = Example:(2.2*100)-100=120 = 2.2 Gamma$	<b>78</b>	01111000
<b>b</b>	18	Feature Support (no_DPMS, no_Active Off/Very Low Power, RGB color display, Timing BLK 1,no_GTF)	<b>0A</b>	00001010
	19	Red/Green Low Bits (RxRy/GxGy)	<b>87</b>	10000111
Panel Color Coordinates	1A	Blue/White Low Bits (BxBy/WxWy)	<b>F5</b>	11110101
linc	1B	Red X   Rx = 0.580	94	10010100
ora	1C	Red Y   Ry = 0.340	57	01010111
C	1D	Green X $Gx = 0.310$	<b>4F</b>	01001111
lor	1E	Green Y $Gy = 0.550$	<b>8C</b>	10001100
Co	1F	Blue X $Bx = 0.155$	27	00100111
1el	20	Blue Y By = $0.155$	27	00100111
Pan	21	White X $Wx = 0.313$	50	01010000
7	22	White Y $Wy = 0.329$	54	01010100

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s s	23	Established timing 1 (00h if not used)	00	00000000
Established Timings	24	Established timing 2 (00h if not used)	00	00000000
Esta Ti	25	Manufacturer's timings (00h if not used)	00	00000000
	26	Standard timing ID1 (01h if not used)	01	00000001
	27	Standard timing ID1 (01h if not used)	01	00000001
	28	Standard timing ID2 (01h if not used)	01	00000001
	29	Standard timing ID2 (01h if not used)	01	00000001
0	2A	Standard timing ID3 (01h if not used)	01	00000001
i II	2B	Standard timing ID3 (01h if not used)	01	00000001
ing	2C	Standard timing ID4 (01h if not used)	01	00000001
Tim	2D	Standard timing ID4 (01h if not used)	01	00000001
rd !	2E	Standard timing ID5 (01h if not used)	01	00000001
Standard Timing ID	2F	Standard timing ID5 (01h if not used)	01	00000001
tan	30	Standard timing ID6 (01h if not used)	01	00000001
S	31	Standard timing ID6 (01h if not used)	01	00000001
	32	Standard timing ID7 (01h if not used)	01	00000001
	33	Standard timing ID7 (01h if not used)	01	00000001
	34	Standard timing ID8 (01h if not used)	01	00000001
	35	Standard timing ID8 (01h if not used)	01	00000001
	36	Pixel Clock/10,000 (LSB) 71 MHz @ 60Hz	BC	10111100
	37	Pixel Clock/10,000 (MSB)	1 <b>B</b>	00011011
	38	Horizontal Active (lower 8 bits) 1366 Pixels	<b>56</b>	01010110
	39	Horizontal Blanking(Thp-HA) (lower 8 bits) 132 Pixels	84	10000100
	3A	Horizontal Active / Horizontal Blanking(Thp-HA) (upper 4:4bits)	<b>50</b>	01010000
	3B	Vertical Avtive 768 Lines	00	00000000
#1	3C	Vertical Blanking (Tvp-HA) (DE Blanking typ.for DE only panels) 22 Lines	16	00010110
tor	3D	Vertical Active : Vertical Blanking (Tvp-HA) (upper 4:4bits)	30	00110000
Timing Descriptor #1	3E	Horizontal Sync. Offset (Thfp) 48 Pixels	30	00110000
esc	3F	Horizontal Sync Pulse Width (HSPW) 32 Pixels	20	00100000
g  D	40	Vertical Sync Offset(Tvfp) : Sync Width (VSPW) 1 Lines : 4 Lines	14	00010100
nin	41	Horizontal Vertical Sync Offset/Width (upper 2bits)	00	00000000
Tin	42	Horizontal Image Size (mm) 309 mm	35	00110101
	43	Vertical Image Size (mm) 174 mm	AE	10101110
	44	Horizontal Image Size / Vertical Image Size	10	00010000
	45	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000
	46	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000
	47	Non-Interlace, Normal display, no stereo, Digital Separate (Vsync_NEG, Hsync_NEG), DE only note: LSB is set to '1' if panel is DE-timing only. H/V can be ignored.	18	00011000

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	48	Flag	00	00000000
	49	Flag	00	00000000
	4A	Flag	00	00000000
	4B	Data Type Tag (Descriptor Defined by manufacturer )	00	00000000
	4C	Flag	00	00000000
27	4D	Descriptor Defined by manufacturer	20	00100000
Timing Descriptor #2	<b>4</b> E	Descriptor Defined by manufacturer	20	00100000
ipte	<b>4</b> F	Descriptor Defined by manufacturer	20	00100000
SCr	50	Descriptor Defined by manufacturer	20	00100000
De	51	Descriptor Defined by manufacturer	20	00100000
su su	52	Descriptor Defined by manufacturer	20	00100000
imi	53	Descriptor Defined by manufacturer	20	00100000
	54	Descriptor Defined by manufacturer	20	00100000
	55	Descriptor Defined by manufacturer	20	00100000
	56	Descriptor Defined by manufacturer	20	00100000
	57	Descriptor Defined by manufacturer	20	00100000
	58	Descriptor Defined by manufacturer	20	00100000
	59	Descriptor Defined by manufacturer	20	00100000
	5A	Flag	00	00000000
	5B	Flag	00	00000000
	5C	Flag	00	00000000
	5D	Data Type Tag ( ASCII String )	FE	11111110
	5E	Flag	00	00000000
	5F	ASCII String "C"	43	01000011
#3	60	ASCII String "M"	4D	01001101
tor	61	ASCII String "I"	49	01001001
Timing Descriptor	62	ASCII String	0A	00001010
esc	63	ASCII String	20	00100000
g D	64	ASCII String	20	00100000
iin	65	ASCII String	20	00100000
Tin	66	ASCII String	20	00100000
	67	ASCII String	20	00100000
	68	ASCII String	20	00100000
	69	Manufacturer P/N(If<13 char> 0Ah, then terminate with ASC $\coprod$ code 0Ah,set remaining char = 20h)	20	00100000
	6A	Manufacturer P/N(If<13 char> 0Ah, then terminate with ASC $\amalg$ code 0Ah,set remaining char = 20h)	20	00100000
	6B	Manufacturer P/N(If<13 char> 0Ah, then terminate with ASC $\coprod$ code 0Ah,set remaining char = 20h)	20	00100000

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	6C	Flag	00	00000000
	6D	Flag	00	00000000
	6E	Flag	00	00000000
	6F	Data Type Tag (ASCII String )	FE	11111100
	70	Flag	00	00000000
•	71	Monitor Name, stored as ASCII "B"	42	01000010
# 2	72	Monitor Name, stored as ASCII "T"	54	01010100
Timing Descriptor #4	73	Monitor Name, stored as ASCII "1"	31	00110001
crij	74	Monitor Name, stored as ASCII "4"	34	00110100
Des	75	Monitor Name, stored as ASCII "0"	30	00110000
8	76	Monitor Name, stored as ASCII "G"	47	01000111
min	77	Monitor Name, stored as ASCII "W"	57	01010111
Ţ	78	Monitor Name, stored as ASCII "0"	30	00110000
	79	Monitor Name, stored as ASCII "1"	31	00110011
	7A	Monitor Name, stored as ASCII "V"	56	01010110
	7B	Monitor Name, stored as ASCII "9"	39	00110100
	7C	Monitor Name, stored as ASCII	0A	00001010
	7D	Monitor Name, stored as ASCII	20	00100000
	7E	Extension flag (# of optional 128 panel ID extension block to follow, Typ = 0)	00	00000000
Checksum	<b>7</b> F	Check Sum (The 1-byte sum of all 128 bytes in this panel ID block shall = 0)	<b>6E</b>	01101110