# INNOLUX DISPLAY CORPORATION

# BT101IW03 V.1 LCD MODULE SPECIFICATION

(	) Preliminary	Specification
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(	) Final	Spec	cification

Customer	Checked & Approved by

Approved by	Checked by	Prepared by	
MKT	PD	PM	
		Annie Lu	

Date: 2009/12/04

# **Innolux Display Corporation**

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Version: 0.2

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	Record of Revision					
Version	Revise Date	Page	Content			
0.0	2009/08/06	All	First Edition issued			
		1	Add LED usage information: 27EA			
0.1	2009/08/21	13	Add LED circuit block information			
0.2	2009/12/04	23	Change EDID Freq. to 54.2MHz			

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# 1. General Specifications

NO.	Item	Specification	Unit
1	Display resolution (pixel)	1024(H) X 600(V), SD resolution	
2	Active area	222.72(H) X 125.28(V)	mm
3	Screen size	10.1 inches diagonal	Inches
4	Pixel pitch	217.5x208.8	um
5	Color configuration	R, G, B vertical stripe	
6	Overall dimension	235 (W) X 143(H) X 5.2(D) (max)	mm
7	Weight	190Max.	Grams
8	Surface treatment	Anti-glare	
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	RoHS	RoHS compliance	

# 2. Electrical Specifications

# 2-1 Pin Assignment

a. Panel connector

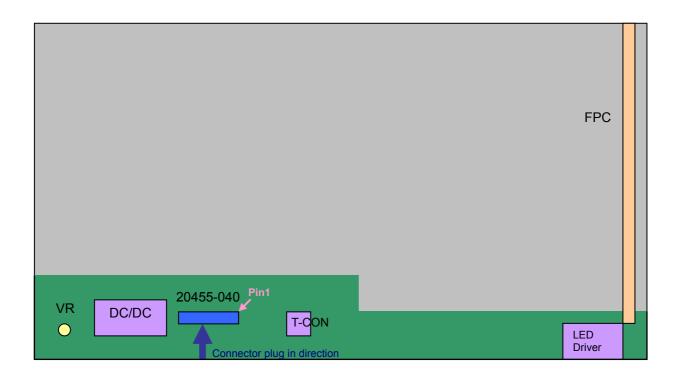
Connector Part No.: I-PEX 20455-040E or equivalent

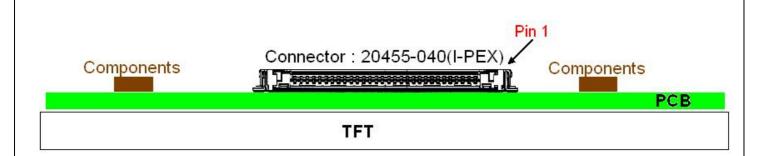
User's connector Part No: I-PEX 20453-040T-11 or equivalent

PIN NO	Symbol	Description	Remark
1	DIAG_LOOP	Plug detection pin	
2	V <sub>CC</sub>	Power Supply (+3.3V)	
3	$V_{CC}$	Power Supply (+3.3V)	
4	$V_{EDID}$	DDC Power +3.3V	
5	BIST	BIST function enable (+3.3V)	
6	Clk <sub>EDID</sub>	DDC Clock	
7	DATA <sub>EDID</sub>	DDC Data	
8	Rxin0-	Differential Data Input	D0- D5 C0
9	Rxin0+	Differential Data Input	— R0~R5,G0
10	GND	Ground	
11	Rxin1-	Differential Data Input	G1~G5,B0,B1
12	Rxin1+	Differential Data Input	G1~G5,B0,B1
13	GND	Ground	
14	Rxin2-	Differential Data Input	B2~B5,DE,Hsync,Vsync
15	Rxin2+	Differential Data Input	BZ~B3,DE,HSylic,VSylic
16	GND	Ground	
17	CLK-	Differential Clock Input	
18	CLK+	Differential Clock Input	
19	NC	No connection (Reserve)	
20	NC	No connection (Reserve)	
21	NC	No connection (Reserve)	
22	NC	No connection (Reserve)	
23	NC	No connection (Reserve)	
24	NC	No connection (Reserve)	
25	NC	No connection (Reserve)	
26	NC	No connection (Reserve)	
27	NC	No connection (Reserve)	
28	NC	No connection (Reserve)	
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	DIAG_LOOP	Plug detection pin	
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 6.0V~20V	
39	V_LED	LED power supply 6.0V~20V	
40	V_LED	LED power supply 6.0V~20V	

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# b. General Block Diagram





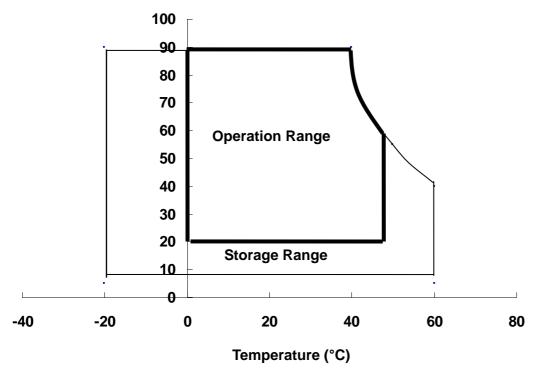
#### 2-2. Absolute Maximum Ratings

		Values		1124	
Parameter	Symbol	Min.	Max.	Unit	Remark
Power input voltage	V <sub>CC</sub>	- 0.3	4.0	V	At 25°C
Input signal voltage	V <sub>IN</sub>	- 0.3	4.0	V	At 25°C
LED input voltage	$V_{LED}$	- 0.3	30	V	<b>At 25</b> ℃
Operating temperature	Тор	0	50	°C	Note 1
Storage temperature	T <sub>ST</sub>	- 20	60	°C	Note 2
Re-screw		ı	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°C or less. At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C.

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





### 2-3. Electrical Characteristics

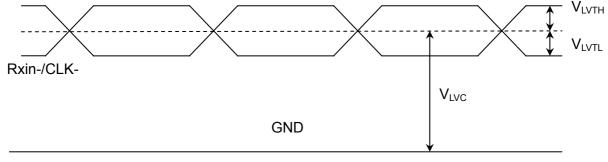
a. Typical operating conditions

	Item		Min.	Тур.	Max.	Unit	Remark
Pow	ver input voltage	V <sub>CC</sub>	3	3.3	3.6	V	
Permissi	ve power input ripple	$V_{RF}$	-	-	0.1	V	
Pov	ver input current	I <sub>CC</sub>	-	220	400	mA	Note 1
Pow	ver consumption	Pc	-	2.75	(3.15)	Watts	Note 1
	Differential input high threshold voltage	$V_{\text{LVTH}}$	-	-	+100	mV	V <sub>LVC</sub> =1.2V, Note 2
LVDS	Differential input low threshold voltage	$V_{\text{LVTL}}$	-100	-	-	mV	V <sub>LVC</sub> =1.2V, Note 2
interface	Common input voltage	$V_{LVC}$	1.0	1.2	1.4	V	Note 2
	Terminating resistor	$R_T$	90	100	110	ohm	
Rush current		I <sub>Rush</sub>	1	-	1	Α	Note 3
LE	D rush current	I <sub>LED-Rush</sub>	-	-	2.0	Α	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 black pattern is displayed.

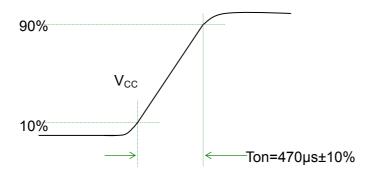
Note 2: LVDS waveform diagram

Rxin+/CLK+

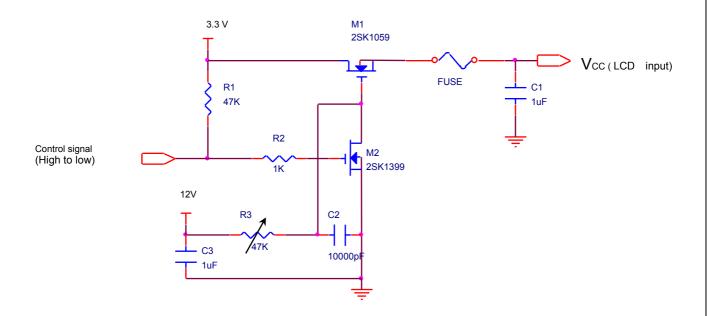


Note 3: Test condition

- (1) Pattern: Black pattern
- (2)  $V_{CC}$  = 3.3 V,  $V_{CC}$  rising time = 470  $\mu$ s ± 10%



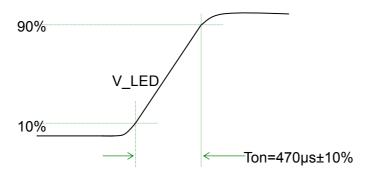
# (3) Test circuit



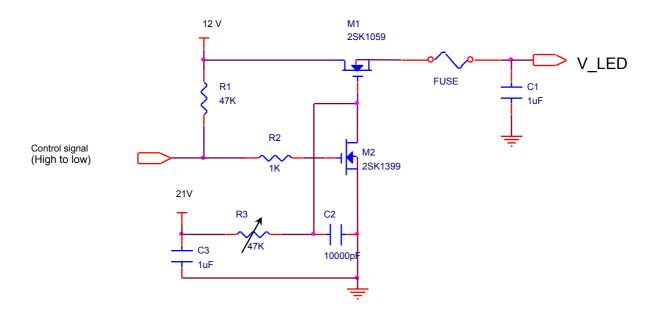
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# Note 4: Test condition

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



# (3) Test circuit

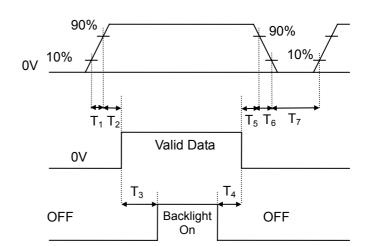


# b. Power sequence

Power supply for LCD,  $V_{CC}$ 

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

Backlight on/off

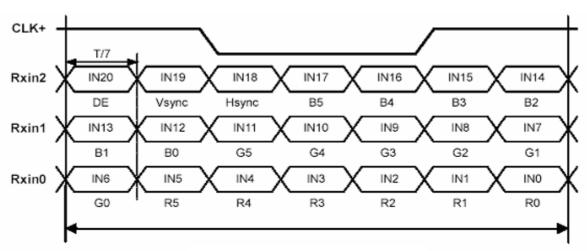


# Power sequence timing table

Doromotor		Heita		
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
$T_4$	200	-	-	ms
T <sub>5</sub>	0	-	50	ms
T <sub>6</sub>	0	-	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.
B3	Blue Data 3	
B2	Blue Data 2	
B1	Blue Data 1	
В0	Blue Data 0 (LSB)	
	Blue-pixel Data	

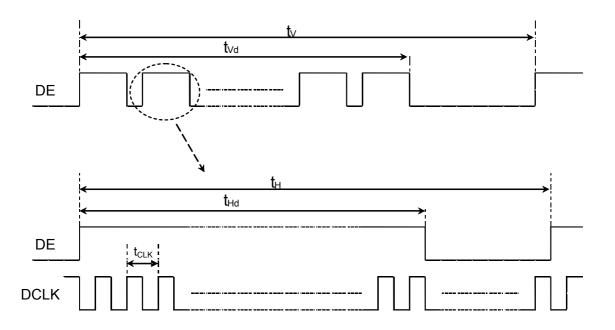


Signal for 1 DCLK cycle (t<sub>CLK</sub>)

# d. Input signal timing

Timing table

Description	Symbol	Min	Тур	Max	Unit
Frame rate			60		Hz
Clock freq.	1/t <sub>CLK</sub>	(40)	54.2	(60)	MHz
Line cycle time	t <sub>H</sub>	(1054)	1440	(1600)	t <sub>CLK</sub>
Line width-active	t <sub>Hd</sub>		1024		t <sub>CLK</sub>
Frame cycle time	t <sub>V</sub>	(610)	628	(680)	t <sub>H</sub>
V width-active	t <sub>Vd</sub>		600		t <sub>H</sub>



# e. Display position

D(1, 1)	D(2, 1)	 D(673, 1)	 D(1023, 1)	D(1024, 1)
D(1, 2)	D(2, 2)	 D(673, 2)	 D(1023, 2)	D(1024, 2)
:		 :	 :	:
D(1, 384)	D(2, 300)	 D(673, 384)	 D(1023, 300)	D(1024, 300)
:		 :	 :	:
D(1, 767)	D(2, 599)	 D(673, 599)	 D(1023, 599)	D(1024, 599)
D(1, 768)	D(2, 600)	 D(673, 600)	 D(1023, 600)	D(1024, 600)

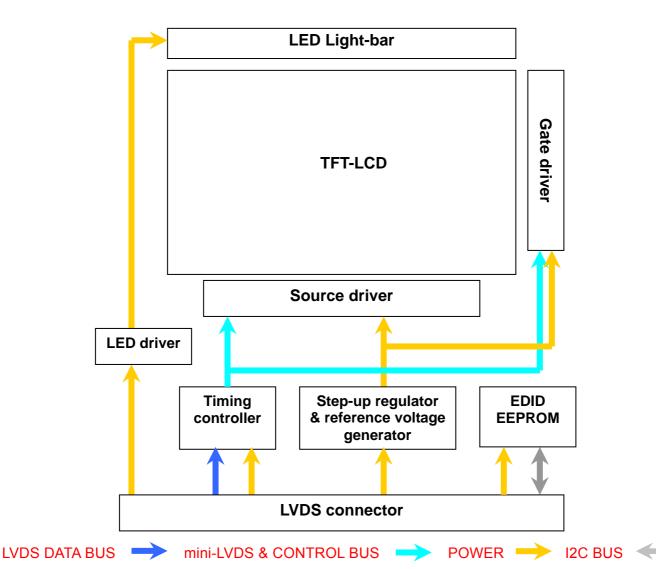
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f. Backlight driving conditions

Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
LED Forward Voltage	$V_{F}$	3	3.2	3.4	$V_{rms}$	T = 25°C, Note 1, 2
LED Forward Current	I <sub>F</sub>		20		mA <sub>rms</sub>	T = 25°C, Note 1, 2
LED Power consumption	P <sub>LED</sub>		2.1	(2.3)	W	T = 25°C, Note 1, 2
Output PWM frequency	F <sub>PWM</sub>	200	1000	2000	Hz	T = 25°C, Note 1, 2
Duty ratio	-	5		100	%	Note 1, 2
LED Life Time (LED only)	-	15,000			Hr	T = 25°C , Note 3

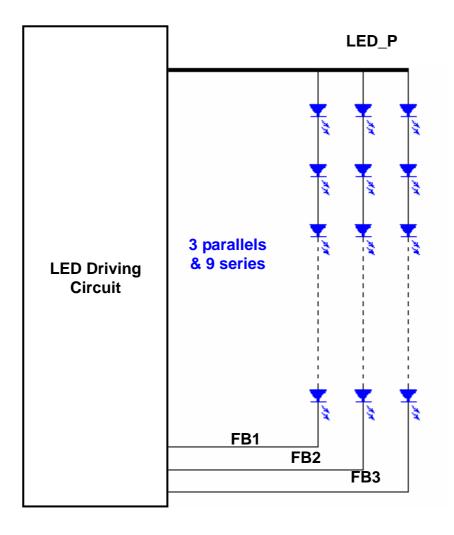
- Note 1: The BL power consumption @100 nits with full white pattern under the  $V_{cc}$  =3.3 V, 25  $^{\circ}$  C,  $f_V$ =60Hz (frame frequency) condition
- Note 2: PWM duty cycle linearity guarantees 20~100%.
- Note 3: LED life time definition is brightness decrease to 50% of initial or abnormal lighting.

#### g. Module function block



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# h. LED circuit block



# 3. Optical specifications

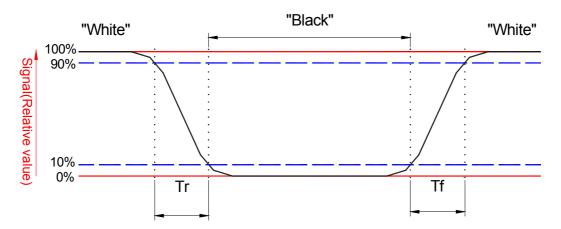
to-	Cymph ol	Condition	Specification					
Item	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark	
Response time	Tr+Tf	θ= 0°		8	16	ms	Note 3	
Contrast ratio	CR	θ= 0°	400	500			Note 2,4	
	Тор		15					
Viewie e ee ele	Bottom	CD > 10	30			al a a:	Note 0.4.0	
Viewing angle	Left	CR≧10	40			deg	Note 2,4,6	
	Right		40					
Brightness (5 points average)	Y <sub>L</sub>		170	200		nit	Note 2,5	
	W <sub>x</sub>		-0.03	0.313				
	W <sub>y</sub>			0.329	+0.03			
	R <sub>x</sub>			0.575				
	R <sub>y</sub>			0.348			Note 2	
Color chromaticity (CIE)	G <sub>x</sub>	θ= 0°		0.336			Note 2	
	G <sub>y</sub>			0.574				
	B <sub>x</sub>			0.154				
	B <sub>y</sub>			0.105				
Color Gamut	NTSC	CIE1931	40	45		%	-	
White uniformity	δ <sub>W(13)</sub>				(1.55)		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 signals 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:

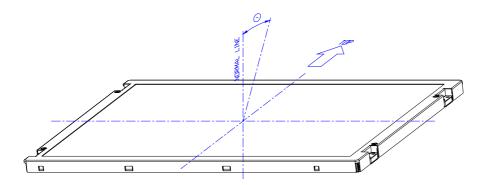
Contrast ratio (Avg of 5pts) = 
$$\frac{L \text{ white (Avg of 5pts.)}}{L \text{ Black (Avg of 5pts.)}}$$

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

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

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

Note 6: Definition of viewing angle



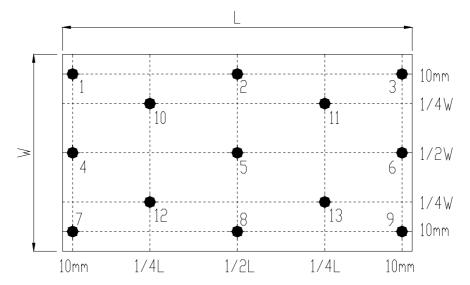
Note 7: Definition white uniformity:

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

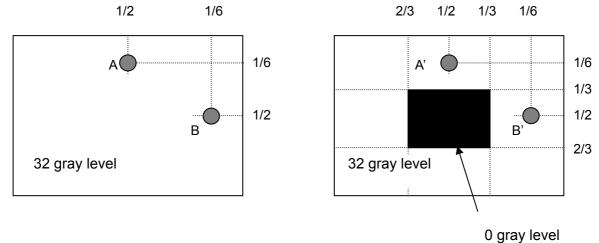
$$\delta_{W(13)} = \frac{\text{Maximum Brightness of thirteen points}}{\text{Minimum Brightness of thirteen points}}$$
 
$$\delta_{W(5)} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

13 point measuring locations refer to the point 1,~13. 5 point measuring locations refer to the point 5,10~13.

L and W are active area dimensions. Active area center refer to attached drawing



Note 8:



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'

# 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	40°C, 90% 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)	-25°C / 30 mins ~ 65°C / 30 mins 100 cycles	Note 1	Note 2
Electrostatic discharge (ESD)	150 pF, 330Ω, Contact: ±8kV, Air: ±15kV	Note 1	
Vibration (Non-operation)	1.5Grms, (PSD: 0.0046^G/Hz) 10 to 500 Hz random; 0.5hr for 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.

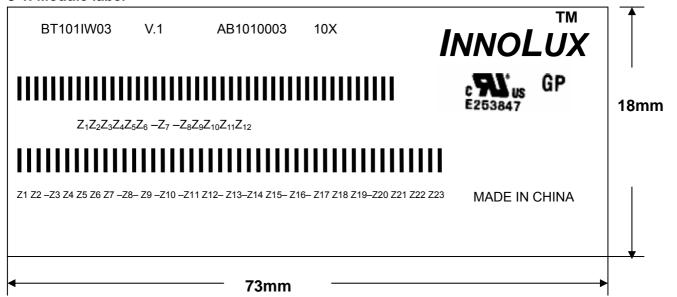
### 7. Handling precaution

- (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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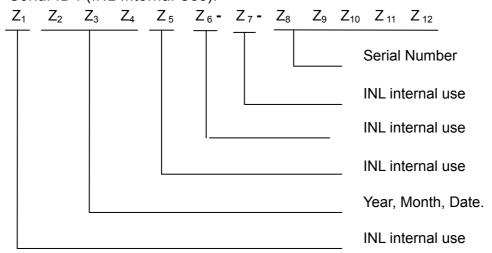
### 8. Label Definition

#### 8-1. Module label



(a) Model Number : BT101IW03(b) Product Number : AB101000310X

(c) Serial ID I (INL Internal Use):



Serial ID includes the information as below: Manufactured Date: Year: 0~9, for 2000~2009

Month: 1~9 & A~C for Jan.~Dec.

Date: 1~9 & A~Z (exclude I, O, Q, U) for 1th~31th Serial No.: Module manufactures sequential number.

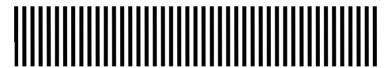
(d) Serial ID II (INL Internal Use): Z1 Z2 –Z3 Z4 Z5 Z6 Z7 –Z8– Z9 –Z10 –Z11 Z12– Z13–Z14 Z15– Z16– Z17 Z18 Z19–Z20 Z21 Z22 Z23

#### 8-2. Carton label

# **INNOLUX DISPLAY**

**78mm** 

BOX ID:



 $Z_1 Z_2 Z_3 Z_4 - Z_5 - Z_6 Z_7 Z_8 Z_9$ 

Part No. LK.1010N.001

Model No. BT101IW03 V.1 AB1010003 101

Quantity: XX PCS

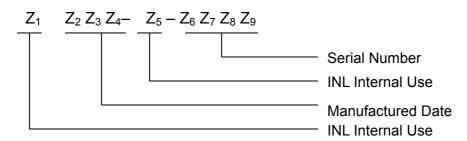
MFG Date: XXXX/XX/XX

QC:

**MADE IN CHINA** 

(a) Model No. : BT101IW03 V.1(b) Package Quantity: XX PCS

(c) Serial ID:



Serial ID includes the information as below:

→Manufactured Date:

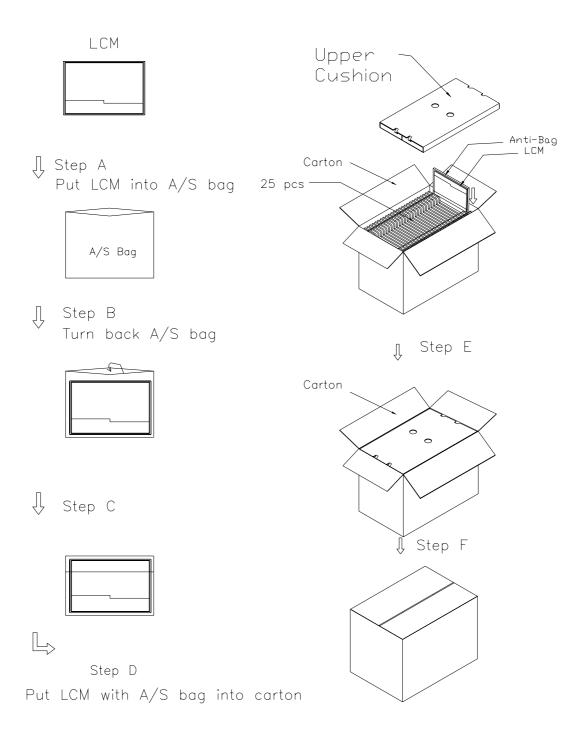
Year: 0~9, for 2000~2009;

Month: 1~9 & A~C for Jan. ~Dec.;

Date: 1~9 & A~V (exclude I, O, Q, U) for 1st~31st.

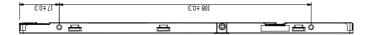
→Serial Number: Module packing sequence number

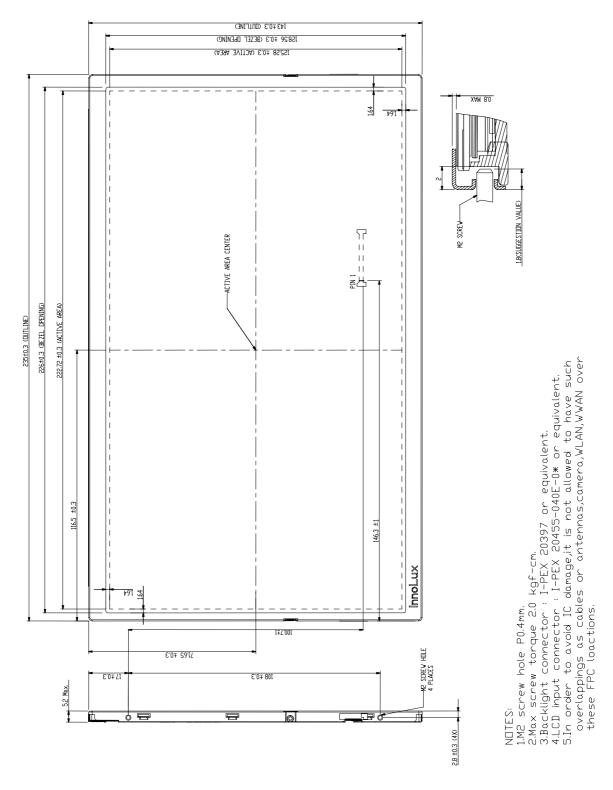
# 9. Packing Form



# 10. Mechanical drawings

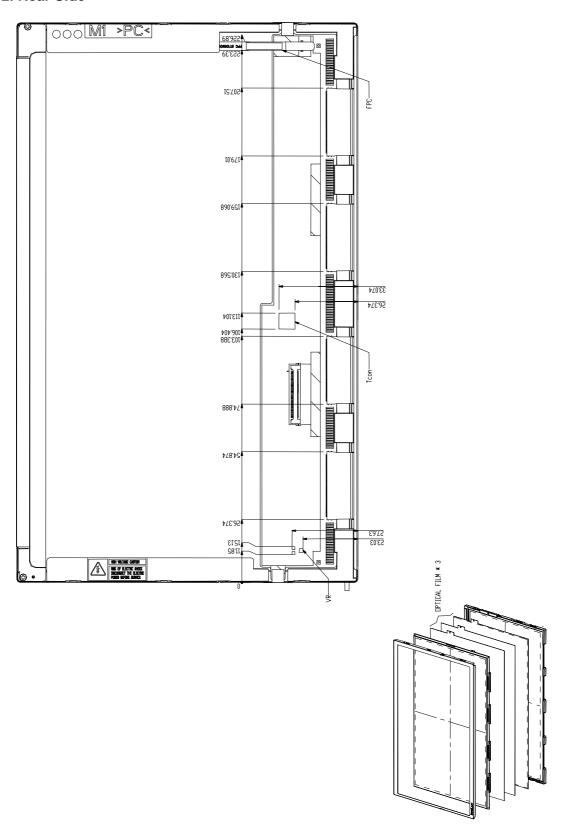
#### 10-1. Front Side





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# 10-2. Rear Side



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Appendix: EDID Code

	Byte	F:	Value	Value
	(hex)	Field Name and Comments	(hex)	(binary)
	0	Header	00	00000000
	1	Header	FF	11111111
	2	Header	FF	11111111
Header	3	Header	FF	11111111
Нез	4	Header	FF	11111111
	5	Header	FF	11111111
	6	Header	FF	11111111
	7	Header	00	0000000
	8	EISA manufacture code ( 3 Character ID ) " INL"	25	00100101
_	9	EISA manufacture code (Compressed ASC II )	CC	11001100
rsior	0A	Panel Supplier Reserved - Product Code "11"	0D	00010001
EDID Version	0B	( Hex. LSB first )	00	00000000
	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
duc	0E	LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
Vendor / Product	0F	LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
lor /	10	Week of Manufacture 00 weeks	00	00000000
/end	11	Year of Manufacture 2009 years	13	00010011
>	12	EDID structure version # = 1	01	0000001
	13	EDID revision # = 3	03	00000011
	14	Video input Definition = Digital signal	80	10000000
y ers	15	Max H image size (Rounded cm) = 22 cm	16	00010110
Display Parameters	16	Max V image size (Rounded cm) = 12 cm	0C	00001100
Di	17	Display gamma "2.2"	78	01111000
<u>.</u>	18	Feature Support (no_DPMS, no_Active Off/Very Low Power, RGB color display, Timing BLK 1,no_ GTF)	0A	00001010
	19	Red/Green Low Bits (RxRy/GxGy)	40	01000000
	1A	Blue/White Low Bits (BxBy/WxWy)	85	10000101
	1B	Red X Rx = 0.575	93	10010011
or SS	1C	Red Y Ry = 0.348	59	01011001
Colc	1D	Green X Gx = 0.336	56	01010110
Panel Color Coordinates	1E	Green Y Gy = 0.574	93	10010011
۵ ۵	1F	Blue X Bx = 0.154	27	00100111
	20	Blue Y By = 0.105	1B	00011011
	21	White X Wx = 0.313	50	01010000
	22	White Y Wy = 0.329	54	01010100
Established Timings	23	Established timing 1 (00h if not used)	00	00000000
Estab Tim	24	Established timing 2 (00h if not used)	00	00000000

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	25	Manufacturer's timings (00h if not used)	00	00000000
	26	Standard timing ID1 (01h if not used)	01	00000001
	27	Standard timing ID1 (0111 not used)  Standard timing ID1 (01h if not used)	01	00000001
	28	Standard timing ID1 (0111 not used)  Standard timing ID2 (01h if not used)	01	00000001
	29	Standard timing ID2 (01h if not used)  Standard timing ID2 (01h if not used)	01	00000001
-				00000001
	2A	Standard timing ID3 (01h if not used)	01	
	2B	Standard timing ID3 (01h if not used)	01	00000001
Standard Timing ID	2C	Standard timing ID4 (01h if not used)	01	00000001
Ë	2D	Standard timing ID4 (01h if not used)	01	00000001
darc	2E	Standard timing ID5 (01h if not used)	01	00000001
Stan	2F	Standard timing ID5 (01h if not used)	01	0000001
0)	30	Standard timing ID6 (01h if not used)	01	0000001
	31	Standard timing ID6 (01h if not used)	01	0000001
	32	Standard timing ID7 (01h if not used)	01	0000001
	33	Standard timing ID7 (01h if not used)	01	0000001
	34	Standard timing ID8 (01h if not used)	01	0000001
	35	Standard timing ID8 (01h if not used)	01	0000001
	36	Pixel Clock/10,000 (LSB) 54.2 MHz @ 60Hz	2C	00101100
	37	Pixel Clock/10,000 (MSB)	15	00010101
	38	Horizontal Active (lower 8 bits) 1024 Pixels	00	00000000
	39	Horizontal Blanking(Thp-HA) (lower 8 bits) 378 Pixels	7A	01111010
	3A	Horizontal Active / Horizontal Blanking(Thp-HA) (upper 4:4bits)	41	01000001
	3B	Vertical Avtive 600 Lines	58	01011000
7	3C	Vertical Blanking (Tvp-HA) (DE Blanking typ.for DE only panels) 44 Lines	2C	00101100
er#	3D	Vertical Active : Vertical Blanking (Tvp-HA) (upper 4:4bits)	20	00100000
Timing Descripter #1	3E	Horizontal Sync. Offset (Thfp) 48 Pixels	30	00110000
Sesc	3F	Horizontal Sync Pulse Width (HSPW) 32 Pixels	20	00100000
l gu	40	Vertical Sync Offset(Tvfp) : Sync Width (VSPW) 3 Lines : 6 Lines	36	00110110
<u>i</u>	41	Horizontal Vertical Sync Offset/Width (upper 2bits)	00	00000000
	42	Horizontal Image Size (mm) 222 mm	DE	11011110
	43	Vertical Image Size (mm) 125 mm	7D	01111101
	44	Horizontal Image Size / Vertical Image Size	00	0000000
	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
#2 Hz)	48	Flag	00	0000000
Timing scriptor ; RRS 40F	49	Flag	00	00000000
Timing Descriptor #2 (sDRRS 40Hz)	4A	Flag	00	00000000
De (sD	4B	Data Type Tag (Descriptor Defined by manufacturer )	00	00000000

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		<del>-</del>		
	4C	Flag	00	00000000
	4D	Descriptor Defined by manufacturer	00	00000000
	4E	Descriptor Defined by manufacturer	00	00000000
	4F	Descriptor Defined by manufacturer	00	00000000
	50	Descriptor Defined by manufacturer	00	00000000
	51	Descriptor Defined by manufacturer	00	00000000
	52	Descriptor Defined by manufacturer	00	00000000
	53	Descriptor Defined by manufacturer	00	00000000
	54	Descriptor Defined by manufacturer	00	00000000
	55	Descriptor Defined by manufacturer	00	00000000
	56	Descriptor Defined by manufacturer	00	00000000
	57	Descriptor Defined by manufacturer	00	00000000
	58	Descriptor Defined by manufacturer	00	00000000
	59	Descriptor Defined by manufacturer	00	00000000
	5A	Flag	00	00000000
	5B	Flag	00	00000000
	5C	Flag	00	00000000
_	5D	Data Type Tag ( ASCII String )	FE	11111110
ĽK)	5E	Flag	00	00000000
DC	5F	ASCII String "I"	49	01001001
mic	60	ASCII String "N"	4E	01001110
Descriptor #3 (Dynamic DCLK)	61	ASCII String "L"	4C	01001100
1) &;	62		0A	01000100
# oc	63		20	01101001
cript	64		20	01110011
Des	65		20	01110000
	66		20	01101100
Timing	67		20	01100001
'	68		20	01111001
	69		20	00001010
	6A		20	00100000
	6B		20	00100000
	6C	Detailed timing/monitor	00	00000000
	6D	descriptor #4	00	00000000
e) #	6E	Flag	00	00000000
otor able	6F	Data Type Tag	FC	11111100
Timing Descriptor #4 (Brightness Table)	70	Flag	00	00000000
J De htne	71	Manufacture P/N "B"	42	01000010
ning 3rigl	72	Manufacture P/N "T"	54	01010100
j= 1	73	Manufacture P/N "1"	31	00110001
	74	Manufacture P/N "0"	30	00110000
	75	Manufacture P/N "1"	31	00110001

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	70	Manufacture D/N IIII	40	04004004
	76	Manufacture P/N "I"	49	01001001
	77	Manufacture P/N "W"	57	01010111
	78	Manufacture P/N "0"	30	00110000
	79	Manufacture P/N "3"	33	00110011
	7A	Manufacture P/N "V"	56	01010110
	7B	Manufacture P/N "1"	31	00110001
	7C		0A	00001010
	7D		20	00100000
Checksum	7E	Extension flag (# of optional 128 panel ID extension block to follow, Typ = 0)	00	00000000
Chec	7F	Check Sum (The 1-byte sum of all 128 bytes in this panel ID block shall = 0)	C1	11000001