

SPECIFICATION FOR APPROVAL

(
) Preliminary Specification

() Final Specification

Title 11.6" HD TFT LCD

Customer	
MODEL	

SUPPLIER	LG Display Co., Ltd.
*MODEL	LP116WH1
Suffix	TLA1

*When you obtain standard approval, please use the above model name without suffix

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Ve	er. 0.1	Apr	20, 2009	9	1 / 27



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RECORD OF REVISIONS

Revision No	Revision Date	Page	Description	EDID
		• "		ver
0.0	Feb. 03. 2009	All	First Draft (Preliminary Specification)	-
0.1	Apr. 20. 2009	4	General Features	-
		17,18	Mechanical Dimension	-
			l	
\/o= 0.4			Apr 20, 2000	3/27
Ver. 0.1			Apr. 20, 2009	5721

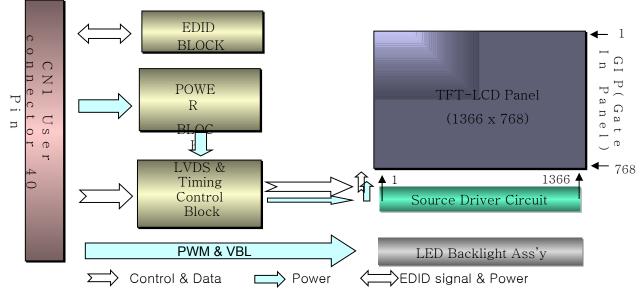


1. General Description

The LP11.6WH1 is a Color Active Matrix Liquid Crystal Display with an integral LED backlight system. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive type display operating in the normally white mode. This TFT-LCD has 10.1inches diagonally measured active display area with WSVGA resolution(1366 horizontal by 768 vertical pixel array). Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 6-bit gray scale signal for each dot, thus, presenting a palette of more than 262,144 colors.

The LP101WH1 has been designed to apply the interface method that enables low power, high speed, low EMI.

The LP101WH1 is intended to support applications where thin thickness, low power are critical factors and graphic displays are important. In combination with the vertical arrangement of the sub-pixels, the LP101WH1 characteristics provide an excellent flat display for office automation products such as Notebook PC.



General Features

Active Screen Size	inches diagonal
Outline Dimension	268.5(H) × 162(V) × .5.2(D,Max.) [mm]
Pixel Pitch	0.1875mmx0.1875mm
Pixel Format	1366 horiz. By 768 vert. Pixels RGB strip arrangement
Color Depth	6-bit, 262,144 colors
Luminance, White	200 cd/m²(Typ.5 point)
Power Consumption	Total 2.46 Watt(Typ.) @ LCM circuit 0.82 Watt(Typ.), B/L input 1.64 Watt(Typ.) (W,
Weight	255g (Max.)
Display Operating Mode	Transmissive mode, normally white
Surface Treatment	Glare treatment of the front polarizer
RoHS Comply	Yes



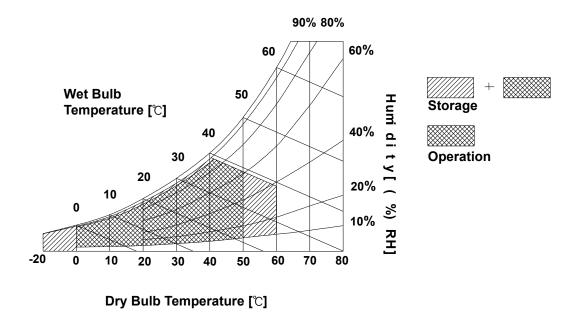
2. Absolute Maximum Ratings

The following are maximum values which, if exceeded, may cause faulty operation or damage to the unit.

		Val	ues		
Parameter	Symbol			Units	Notes
		Min	Max		
		-0.3	4.0		
Operating Temperature	Тор	0	50	°C	1
Storage Temperature	Hst	-20	60	°C	1
Operating Ambient Humidity	Нор	10	90	%RH	1
Storage Humidity	Нѕт	10	90	%RH	1

Note : 1. Temperature and relative humidity range are shown in the figure below.

Wet bulb temperature should be 39° C Max, and no condensation of water.



3. Electrical Specifications

3-1. Electrical Characteristics

The LP101WS1 requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. The second input which powers the LED BL.

VCC I _{cc} Pc Zm	Min 3.0 - - 90	Typ 180 250 0.82 100	Max 3.6 280 0.93 110	V _{DC} mA Watt	1
I _{cc} Pc	-	250 0.82	280 0.93	mA Watt	1
I _{cc} Pc	-	250 0.82	280 0.93	mA Watt	1
Pc	- - 90	0.82	0.93	Watt	1
	- 90	••••=			•
Zm	90	100	110		
			110	Ohm	2
		TBD			
P _{DRIVER}		0.12	0.14	Watt	
cation: 12.5 :200Hz~1Kh	%(Min <u>.</u>)~100 z)	%(11128.2	30.6	V	
	-	19		mA	3 Idition
ed Pad fy is	-	1.64	1.74	Watt	4
	10,000	-	-	Hrs	5
	cation: 12.5 200Hz~1Kh I _{LED} onsumption	cation: 12.5%(Min.)~100 200Hz~1Khz) I _{LED} - onsumption ed B _B d fv is -	P _{DRIVER} 0.12 cation. 12.5 %(Min_)~100 %(Mag.g) 200Hz~1Kr z) I _{LED} - 19 onsumption ed Β၍d fv is - 1.64	P _{DRIVER} 0.12 0.14 cation: 12.5 %(Min_)~100 %(Max.) 30.6 200Hz~1Kr z) %(Max.) I _{LED} - 0nsumption - ed Bad fv is -	PDRIVER 0.12 0.14 Watt cation. 12.5 %(Min_)~100 %(Max.) 30.6 V 200H2~1Krz) 100 %(Max.) 30.6 V ILED - 19 mA onsumption - 1.64 1.74

Table 2. ELECTRICAL CHARACTERISTICS

- 2. This impedance value is needed to proper display and measured form LVDS Tx to the mating connector.
- 3. The typical operating current is for the typical surface luminance (L_{WH}) in optical characteristics.

ILED is the current of each LED's string, LED backlight has 3 strings on it.

- 4. The LED power consumption shown above does not include power of external LED driver circuit for typical current condition.
- 5. The life time is determined as the time at which brightness of LED is 50% compare to that of initial value at the typical LED current.

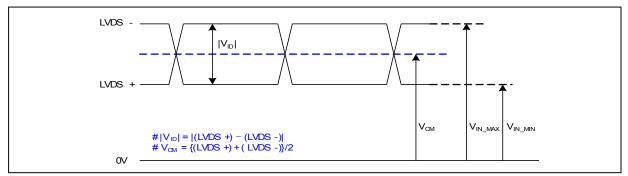
3-2. Interface Connection

This LCD employs one interface connection, a 40 pin connector is used for the module electronics interface.

D :		able 3. MODULE CONNECTOR PIN CON	
Pin	Symbol	Description	Notes
1	CT1/NC	Connector Test/No Connection(Reserved)	
2	VDD	+3.3V Power Supply	
3	VDD	+3.3V Power Supply	
4	V _{EDID}	+3.3V EDID Power	1, Interface chips
5	NC	No Connection	1.1 LCD : SiW, 1port including
6		EDID Clock Input	LVDS Receiver 1.2 System :
7		EDID Data Input	* Pin to Pin compatible with LVDS
8	RxIN0-	LVDS differential data input	2 Connector
9	RxIN0+	LVDS differential data input	2. Connector 2.1 LCD :I-PEX 20455-040E-0*
10	GND	Ground	(Locking type)
11	RxIN1-	LVDS differential data input	or equivalent
12	RxIN1+	LVDS differential data input	2.2 Mating :
13	GND	Ground	2.3 Connector pin arrangement
14	RxIN2-	LVDS differential data input	
15	RxIN2+	LVDS differential data input	40 1 ПППП
16	GND	Ground	
17	RxCLKIN-	LVDS differential clock input	
18	RxCLKIN+	LVDS differential clock input	[LCD Module Rear View]
19	GND	Ground	
20	NC	No Connection	-
21	NC	No Connection	-
22	GND	Ground	-
23	NC	No Connection	-
24	NC	No Connection	-
25	GND	Ground	-
26	NC	No Connection	-
27	NC	No Connection	-
28	GND	Ground	-
29	NC	No Connection	
30	NC	No Connection	-1
31	VLED_GND	LED Ground	1
32	VLED_GND	LED Ground	1
33	VLED_GND	LED Ground	1
34	CT2/NC	Connector Test/No Connection(Reserved)	-1
35	S_PWMIN	System PWM signal input	-1
36	BL_ON	LED Enable[Note 1]	1
37	NC	No Connection	-
38	VLED	+5V~+21V LED Power Supply	[Note 1]
39	VLED	+5V~+21V LED Power Supply	[Note 1] On: 2.0V↑,Off:0~0.4V
40	VLED	+5V~+21V LED Power Supply	

3-3. LVDS Signal Timing Specifications

3-3-1. DC Specification

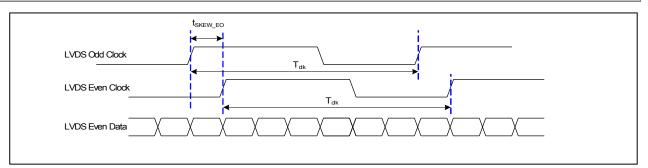


Description	Symbol	Min	Max	Unit	Notes
LVDS Differential Voltage	V _{ID}	100	600	mV	-
LVDS Common mode Voltage	V _{CM}	0.6	1.8	V	-
LVDS Input Voltage Range	V _{IN}	0.3	2.1	V	-

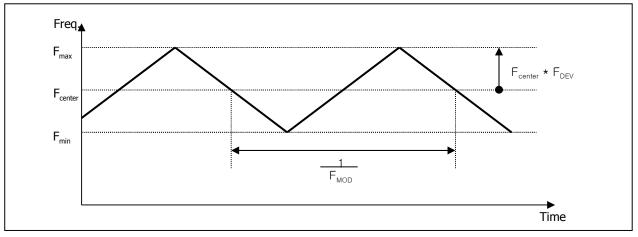
3-3-2. AC Specification

LVDS Clock LVDS Data LVDS Data t_{SKEW} (F _{dk} = 1/T _{dk}) t_{SKEW} (F _{dk} = 1/T _{dk}) 1) 85MHz > Fdk ≥ 65MHz : -400 ~ +400 t_{SKEW} 2) 65MHz > Fdk ≥ 25MHz : -600 ~ +600										
Description	Symbol	Min	Max	Unit	Notes					
LVDS Clock to Data Skew Margin	t _{skew}	- 400	+ 400	ps	85MHz > Fclk ≥ 65MHz					
	t _{skew}	- 600	+ 600	ps	65MHz > Fclk ≥ 25MHz					
LVDS Clock to Clock Skew Margin (Even to Odd)	t _{skew_eo}	- 1/7	+ 1/7	T _{clk}	-					
Maximum deviation of input clock frequency during SSC	F _{DEV}	-	± 3	%	-					
Maximum modulation frequency of input clock during SSC	F _{MOD}	-	200	KHz	-					





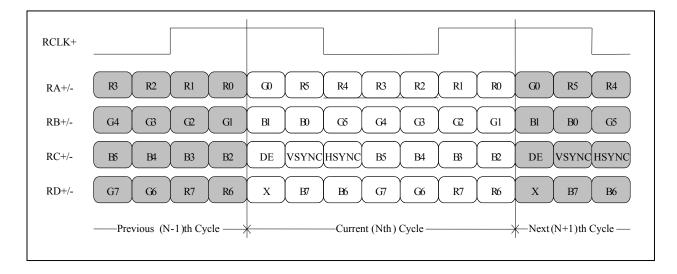
< Clock skew margin between channel >



< Spread Spectrum >

3-3-3. Data Format

- LVDS 1 Port



< LVDS Data Format >

3-4. Signal Timing Specifications

This is the signal timing required at the input of the User connector. All of the interface signal timing should be satisfied with the following specifications and specifications of LVDS Tx/Rx for its proper operation.

ITEM	Symbol	Table 5. TI	Min	Тур	Max	Unit	Note
DCLK	Frequency	f _{clk}	-	72.3	-	MHz	
Hsync	Period	Thp	1470	1526	1586	tCLK	
	Width	t _{wH}	23	32	40	1	
	Width-Active	t _{wHA}	1366	1366	1366		
Vsync	Period	t _{vP}	779	790	801	tHP	
	Width	t _{wv}	2	5	8		
	Width-Active	t _{wva}	768	768	768		
Data Enable	Horizontal back porch	t _{HBP}	72	80	124	tCLK	
	Horizontal front porch	t _{HFP}	8	48	48		
5. Signa	^{V¶} timing ^t Wa∀eforms	t _{vBP}	8	14	20 (Cond tiidP n:\	CC =3.3V
Data Ena	lle, Hsync, Vsync Vertical front porch		h: 0.7VCC w: 0.3VCC	7	5	-	
		U	w. 0.avcc	£ °	~ <u>+</u> _		
		7					
Isync		t _{HP}	twна	<u> </u>			
Data Ena	4	t _{VP}		<u> </u>			
√sync		47	twva	%	t. ▶I∢		
Data Ena	able	/ / /	$ \ \ \ \ \ \ \ \ \ \ \ \ \ $		$\sqrt{-1}$	I	

3-6. Color Input Data Reference

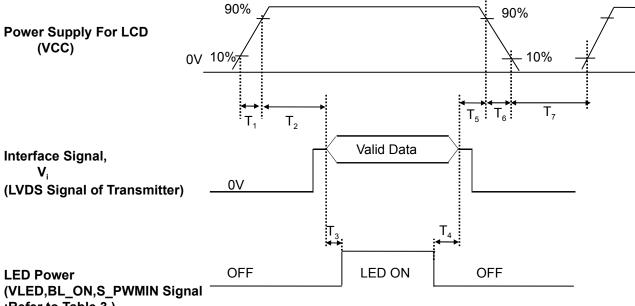
The brightness of each primary color (red,green and blue) is based on the 6-bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

	Color		Input Color Data	
		RED MSB LSB	GREEN MSB LSB	BLUE MSB LSB
		R5 R4 R3 R2 R1 R0	G5 G4 G3 G2 G1 G0	B5 B4 B3 B2 B1 B0
Basic	Black	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
Color	Red	1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0
	Green	0 0 0 0 0	1 1 1 1 1 1	0 0 0 0 0
	Blue	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 1
	Cyan	0 0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1
	Magenta	1 1 1 1 1 1	0 0 0 0 0	1 1 1 1 1 1
	Yellow	1 1 1 1 1 1	1 1 1 1 1 1	0 0 0 0 0
	White	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1
RED	RED (00)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
	RED (01)	00001	0 0 0 0 0	0 0 0 0 0
	RED (62)	1 1 1 1 1 0	0 0 0 0 0	0 0 0 0 0
	RED (63)	1 1 1 1 1 1	LSB MSB LSB R0 G5 G4 G3 G2 G1 G0 0 0 0 0 1 1 1 1 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <	0 0 0 0 0
GREEN	GREEN (00)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
	GREEN (01)	0 0 0 0 0	00001	0 0 0 0 0 0
	GREEN (62)	0 0 0 0 0	1 1 1 1 1 0	0 0 0 0 0 0
	GREEN (63)	0 0 0 0 0	1 1 1 1 1 1	0 0 0 0 0 0
BLUE	BLUE (00)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0
	BLUE (01)	0 0 0 0 0	0 0 0 0 0	000001
	BLUE (62)	0 0 0 0 0	00000	1 1 1 1 1 0
	BLUE (63)	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 1

Table 7. COLOR DATA REFERENCE



3-7. Power Sequence



:Refer to Table 3.)

		Value		
Parameter		Units		
	Min.	Тур.	Max.	
T ₁	0.5	-	10	(ms)
T ₂	0	-	50	(ms)
T_3	200	-	-	(ms)
T_4	200	-	-	(ms)
T_5	0	-	50	(ms)
T ₆	0	-	10	(ms)
T ₇	400	-	-	(ms)

Table 7. POWER SEQUENCE TABLE

Note)

1. Valid Data is Data to meet "3-3. LVDS Signal Timing Specifications"

- 2. Please avoid floating state of interface signal at invalid period.
- 3. When the interface signal is invalid, be sure to pull down the power supply for LCD VCC to 0V.
- 4. LED power must be turn on after power supply for LCD and interface signal are valid.



4. Optical Specification

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 30 minutes in a dark environment at 25° C. The values specified are at an approximate distance 50cm from the LCD surface at a viewing angle of Φ and Θ equal to 0°.

FIG. 1 Optical Characteristic Measurement Equipment and Method

FIG. 1 presents additional information concerning the measurement equipment and method.

Optical Stage(x,y)

Table 8.	OPTICAL CHARACTERISTICS	

Pa	rameter	Symbol		Values		Units	Notes	
			Min	Тур	Max			
Contrast Ratio		CR	300	-	-		1	
Surface Luminar	nce, white	L _{wH}	170	200	-	cd/m ²	2	
uminance Varia	ation	δ_{WHITE}	-	1.4	1.6		3	
Response Time		Tr _R + Tr _D	-	16	25	ms	4	
Color Coordinate	es			TBD				
	RED	RX	0.555	0.585	0.615			
		RY	0.319	0.349	0.379			
	GREEN	GX	0.306	0.336	0.366			
		GY	0.528	0.558	0.588			
	BLUE	BX	0.128	0.158	0.188			
		BY	0.095	0.125	0.155			
Ver. 0.1							13 /	
	WHITE	WX	0.283	0.313	0.343			

Ta=25° C, VCC=3.3V, fv=60Hz, f_{CLK}=72.3MHz, I_{BL}= TBD mA



Note)

1. Contrast Ratio(CR) is defined mathematically as

Surface Luminance with all white pixels

Contrast Ratio =

Surface Luminance with all black pixels

2. Surface luminance is the average of 5 point across the LCD surface 50cm from the surface with all pixels displaying white. For more information see FIG 1.

 $L_{WH} = Average(L_1, L_2, \dots, L_5)$

3. The variation in surface luminance , The panel total variation (δ_{WHTE}) is determined by measuring L_N at each test position 1 through 13 and then defined as followed numerical formula. For more information see FIG 2.

$$\delta_{\text{WHITE}} = \frac{\text{Maximum}(L_1, L_2, \dots, L_{13})}{\text{Minimum}(L_1, L_2, \dots, L_{13})}$$

- 4. Response time is the time required for the display to transition from white to black (rise time, Tr_R) and from black to white(Decay Time, Tr_D). For additional information see FIG 3.
- 5. Viewing angle is the angle at which the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD surface. For more information see FIG 4.

pecification	* f = 60Hz
Gray Level	Luminance [%] (Typ)
LO	0.2
L7	2.07
L15	6.93
L23	
L31	23.2
L39	36.4
L47	53.5
L55	75
L63	100
	L7 L15 L23 L31 L39 L47 L55

FIG. 2 Luminance

<measuring point for surface luminance & measuring point for luminance variation>

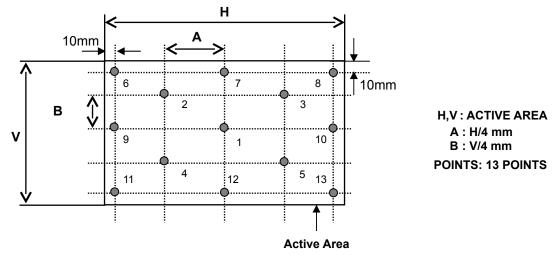


FIG. 3 Response Time

The response time is defined as the following figure and shall be measured by switching the input signal for "black" and "white".

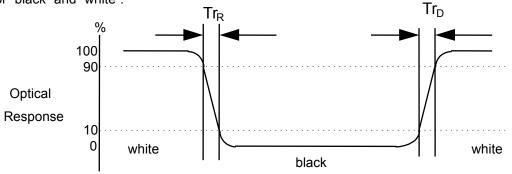
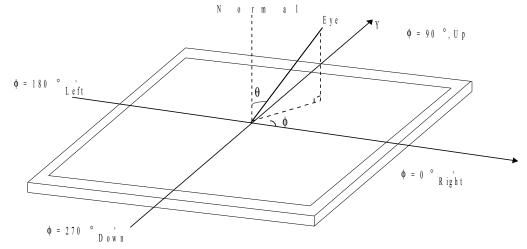


FIG. 4 Viewing angle





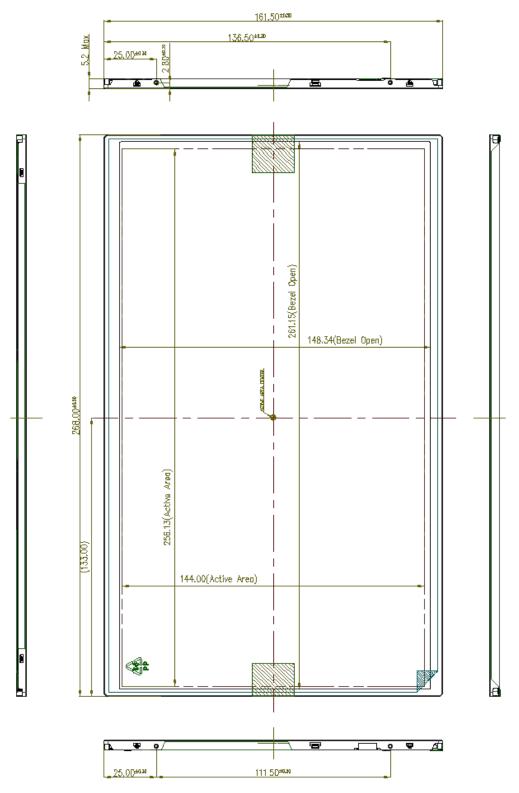
5. Mechanical Characteristics

The contents provide general mechanical characteristics for the model LP116WH1. In addition the figures in the next page are detailed mechanical drawing of the LCD.

Outline Dimension	Horizontal	268.0 ± 0.5 mm
	Vertical	161.5 ± 0.5 mm
	Thickness	5.2mm (max)
Bezel Area	Horizontal	261.15 mm
	Vertical	148.34 mm
Active Display Area	Horizontal	256.13 mm
	Vertical	144.00 mm
Weight	255g (Max.)	
Surface Treatment	Glare treatment of the	front polarizer

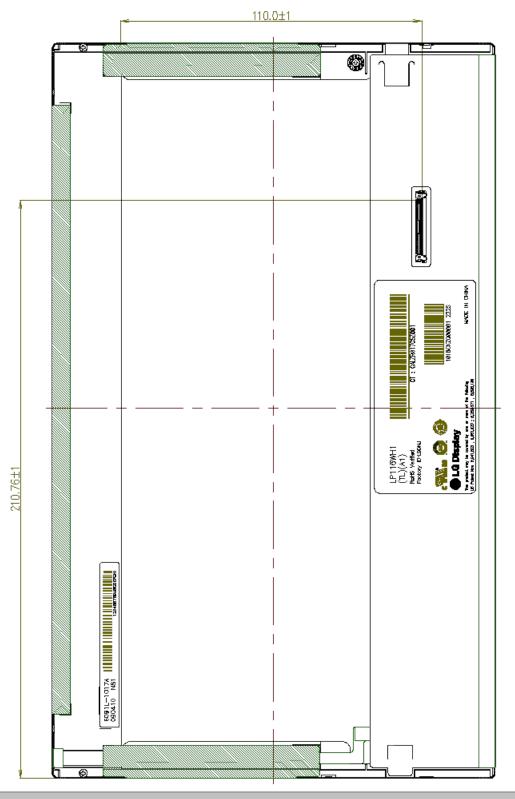


<FRONT VIEW>



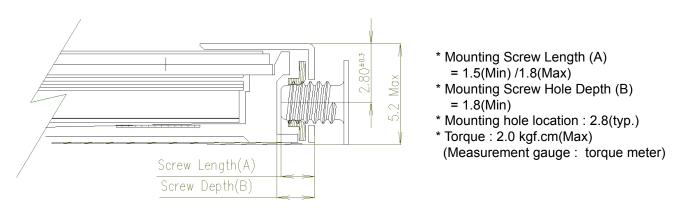


<REAR VIEW>





[DETAIL DESCRIPTION OF SIDE MOUNTING SCREW]



Section A-A

Notes : 1. Screw plated through the method of non-electrolytic nickel plating is preferred to reduce possibility that results in vertical and/or horizontal line defect due to the conductive particles from screw surface.



6. Reliability

Environment test condition

No.	Test Item	Conditions
1	High temperature storage test	Ta= 60° C, 240h
2	Low temperature storage test	Ta= -20° C, 240h
3	High temperature operation test	Ta= 50° C, 50%RH, 240h
4	Low temperature operation test	Ta= 0° C, 240h
5	Vibration test (non-operating)	Sine wave, 10 ~ 500 ~ 10Hz, 1.5G, 0.37oct/min 3 axis, 1hour/axis
6	Shock test (non-operating)	Half sine wave, 180G, 2ms one shock of each six faces(I.e. run 180G 6ms for all six faces)
7	Altitude operating storage / shipment	0 ~ 10,000 feet (3,048m) 24Hr 0 ~ 40,000 feet (12,192m) 24Hr

{ Result Evaluation Criteria }

There should be no change which might affect the practical display function when the display quality test is conducted under normal operating condition.



7. International Standards

7-1. Safety

a) UL 60950-1:2003, First Edition, Underwriters Laboratories, Inc.,

Standard for Safety of Information Technology Equipment.

b) CAN/CSA C22.2, No. 60950-1-03 1st Ed. April 1, 2003, Canadian Standards Association,

Standard for Safety of Information Technology Equipment.

c) EN 60950-1:2001, First Edition,

European Committee for Electrotechnical Standardization(CENELEC)

European Standard for Safety of Information Technology Equipment.

7-2. EMC

a) ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electrical Equipment in the Range of 9kHZ to 40GHz. "American National Standards Institute(ANSI), 1992

b) C.I.S.P.R "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." International Special Committee on Radio Interference.

c) EN 55022 "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." European Committee for Electrotechnical Standardization.(CENELEC), 1998 (Including A1: 2000)



8. Packing

8-1. Designation of Lot Mark

a) Lot Mark



A,B,C : SIZE(INCH) E : MONTH D : YEAR F ~ M : SERIAL NO.

Note

1. YEAR

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Mark	1	2	3	4	5	6	7	8	9	0

2. MONTH

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mark	1	2	3	4	5	6	7	8	9	А	В	С

b) Location of Lot Mark

Serial No. is printed on the label. The label is attached to the backside of the LCD module. This is subject to change without prior notice.

8-2. Packing Form

- a) Package quantity in one box : 40 pcs
- b) Box Size : 395mm × 390mm × 309mm



9. PRECAUTIONS

Please pay attention to the followings when you use this TFT LCD module.

9-1. MOUNTING PRECAUTIONS

(1) You must mount a module using holes arranged in four corners or four sides.

(2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the

module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.

- (3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to the resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
- (6) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of polarizer for bare hand or greasy cloth.(Some cosmetics are detrimental to the polarizer.)
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (9) Do not open the case because inside circuits do not have sufficient strength.

9-2. OPERATING PRECAUTIONS

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage : V=± 200mV(Over and under shoot voltage)
- (2) Response time depends on the temperature.(In lower temperature, it becomes longer.)
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.)
- And in lower temperature, response time(required time that brightness is stable after turned on) becomes

longer.

(4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or

- electrical contacted parts. And after fading condensation, smear or spot will occur.
- (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (6) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimized the interference.



9-3. ELECTROSTATIC DISCHARGE CONTROL

Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wrist band etc. And don't touch interface pin directly.

9-4. PRECAUTIONS FOR STRONG LIGHT EXPOSURE

Strong light exposure causes degradation of polarizer and color filter.

9-5. STORAGE

When storing modules as spares for a long time, the following precautions are necessary.

- (1) Store them in a dark place. Do not expose the module to sunlight or fluorescent light. Keep the temperature between 5° C and 35° C at normal humidity.
- (2) The polarizer surface should not come in contact with any other object.It is recommended that they be stored in the container in which they were shipped.

9-6. HANDLING PRECAUTIONS FOR PROTECTION FILM

- (1) When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) The protection film is attached to the polarizer with a small amount of glue. If some stress is applied to rub the protection film against the polarizer during the time you peel off the film, the glue is apt to remain on the polarizer.

Please carefully peel off the protection film without rubbing it against the polarizer.

- (3) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the polarizer after the protection film is peeled off.
- (4) You can remove the glue easily. When the glue remains on the polarizer surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.



APPENDIX A. Enhanced Extended Display Identification Data (EEDID™) 1/3





APPENDIX A. Enhanced Extended Display Identification Data (EEDID[™]) 2/3





APPENDIX A. Enhanced Extended Display Identification Data (EEDID[™]) 3/3

