SPECIFICATION FOR APPROVAL

((• '	Preliminar	v S	necifi	cation
- (, rieillilliai	vo	peciii	cation

() Final Specification

Title	17.3" FHD TFT LCD						
	Ĩ				_		1

BUYER	DELL
MODEL	

SUPPLIER	LG Display Co., Ltd.
*MODEL	LP173WF3
Suffix	SLB1

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

APPROVED BY	SIGNATURE					
Please return 1 copy for your confirmation with your signature and comments.						

APPROVED BY	SIGNATURE
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M. J. Lee / S.Manager	_
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Products Engineerii LG Display Co.,	-

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RECORD OF REVISIONS

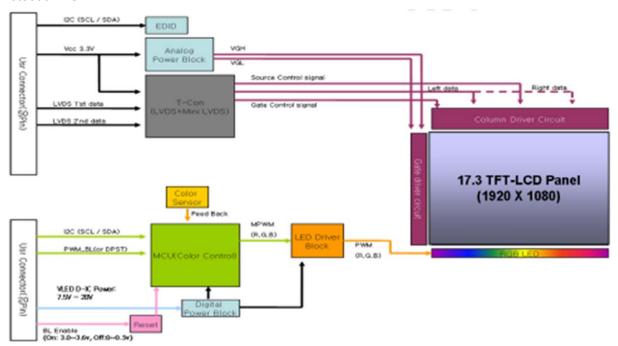
Revision No	Revision Date	Page	Description	EDID ver
0.0	10. Sep. 2010	-	First draft	0.0
0.1	03. May. 2011	6	Update Electrical Characteristics	0.1
		11	Update Timing Table	-
		14-15	Update Optical Specification	-
		30	Update Designation of Lot Mark	-
		33-35	Update E-EDID Table	-
0.2	17. May. 2011	14	Update Optical Specification	0.2
		33-35	Update E-EDID Table (Change checksum 4A → B9)	-
0.3	25. May. 2011	33-35	Update E-EDID Table (Change checksum B9 → 31)	0.3
0.4	28. Jun. 2011	6	Update Electrical Characteristics	0.3



1. General Description

The LP173WF3 is a Color Active Matrix Liquid Crystal Display with an integral RGB 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 black mode. This TFT-LCD has 17.3 inches diagonally measured active display area with Full HD resolution(1920 horizontal by 1080 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 10-bit gray scale signal for each dot, thus, presenting a palette of more than 1.073G(True) colors.

The LP173WF3 has been designed to apply the interface method that enables low power, high speed, low EMI. The LP173WF3 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 LP173WF3(SLB1) characteristics provide an excellent flat display for office automation products such as Notebook PC.



General Features

<u> </u>	
Active Screen Size	17.3 inches diagonal
Outline Dimension(max)	398.1 (H, typ.) × 234.3 (V, typ.) × 7.2(D, max.) mm
Pixel Pitch	0.199mm × 0.199 mm
Pixel Format	1920 horiz. by 1080 vert. Pixels RGB strip arrangement
Color Depth	10-bit, 1.073G colors
Luminance, White	300 cd/m²(Typ.), 5 point
Power Consumption	18.2W (Typ.) [4.10W (Logic, Typ.) + 14.1W (B/L, Typ.)]
Weight (Max.)	830g
Display Operating Mode	Transmissive mode, Normally black
Surface Treatment	Hard coating(3H), Anti-Glare treatment of the front polarizer
BFR / PVC / As Free	Yes for all.

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2. Absolute Maximum Ratings

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

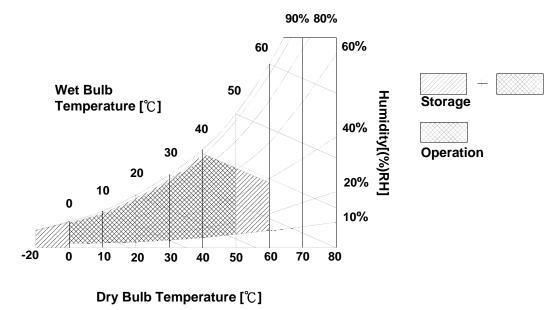
Table 1. ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Val	ues	Units	Notes	
Farameter	Syllibol	Min	Max	Office		
Power Input Voltage	VCC	-0.3	4.0	Vdc	at 25 ± 5°C	
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.

Note: 2. Storage Condition is guaranteed under packing condition.



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3. Electrical Specifications

3-1. Electrical Characteristics

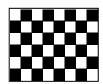
The LP173WF3(SLB1) requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. The second input which powers the LED, is typically generated by an LED Driver. The LED Driver is an internal unit to the LCD.

Table 2. ELECTRICAL CHARACTERISTICS

Parameter	Cumbal		Unit	Notes			
Parameter	Symbol	Min	Тур	Max	Offic	Notes	
MODULE :							
Power Supply Input Voltage	VCC	3.0	3.3	3.6	V_{DC}		
Power Supply Input Current	I _{cc}	1.03	1.24	1.49	Α	1	
Power Consumption	Pc	-	4.1	4.92	Watt	1	
Differential Impedance	Zm	90	100	110	Ohm	2	
LED Backlight :							
Power Supply Input Voltage	V_{BL+}	7.5	14.4	21	V _{DC}		
Operating Voltage	$V_{\text{LED (R,G,B)}}$	-	-	45	V	3	
Operating Current per string	I _{LED (R,G,B)}	-	-	50	mA	3	
Power Consumption	P_{BL}		14.1	16.2	Watt	4	
Life Time		15,000	-		Hrs	5	

Note)

1. The specified current and power consumption are under the Vcc = 3.3V, 25° C, fv = 60Hz condition whereas Mosaic pattern (8x6) is displayed and fv is the frame frequency.



- 2. This impedance value is needed to proper display and measured form LVDS Tx to the mating connector.
- 3. RGB LED Operating Voltage and Operating Current per string should be within Max. SPEC.
- 4. The LED power consumption (Typ) shown above does include power of internal LED driver circuit for typical current condition. (Luminance = 300nit condition)

 The power consumption (Max) condition is R,G,B LED 100% Dimming.
- 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.

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3-2. Interface Connections

This LCD employs two interface connections, a 50 pin connector is used for the module electronics interface and the other connector is used for the integral backlight system.

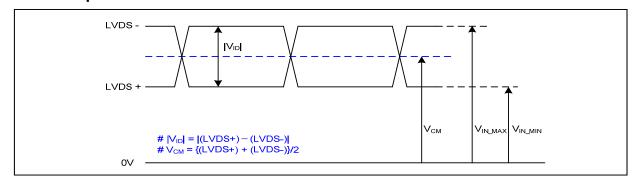
Table 3. MODULE CONNECTOR PIN CONFIGURATION (CN1)

Pin	Symbol	Description	Notes
1	GND	Ground	
2	AVDD	Power Supply, 3.3V Typ.	
3	AVDD	Power Supply, 3.3V Typ.	
4	AVDD	Power Supply, 3.3V Typ.	
5	AVDD	Power Supply, 3.3V Typ.	
6	AVDD	Power Supply, 3.3V Typ.	
7	AVDD	Power Supply, 3.3V Typ.	
8	AVDD	Power Supply, 3.3V Typ.	
9	DVDD	Digital Power supply (3.3V Typ)	
10	DVDD	Digital Power supply (3.3V Typ)	
11	BIST	BIST	
12	Clk EEDID	Two wire serial interface clock	1, Interface chips
13	DATA EEDID	Two wire serial interface data	1.1 LCD : LGE (MAKO)
14	GND	Ground	including LVDS Receiver,
15	RXinO0-	- LVDS differential data input, Chan 0-Odd	VESA LVDS 10bit Format
16	RXinO0+	+ LVDS differential data input, Chan 0-Odd	1.2 System :
17	GND	Ground	* Pin to Pin compatible with LVDS
18	RXinO1	- LVDS differential data input, Chan 1-Odd	I in to I in compatible with LVD3
19	RXinO1+	+ LVDS differential data input, Chan 1-Odd	
20	GND	Ground	2.Connector
21	RXinO2-	- LVDS differential data input, Chan 2-Odd	2.1 LCD: JAE FI-VHP50S-A-HF11
22	RXinO2+	+ LVDS differential data input, Chan 2-Odd	or equivalent
23	GND	Ground	2.2 Mating: JAE or equivalent
24	RXOC-	- LVDS Differential Clock input (Odd)	2.3 Connector pin arrangement
25	RXOC+	+ LVDS Differential Clock input (Odd)	LCD rear view
26	GND	Ground	Lob real view
27	RXinO3-	- LVDS differential data input, Chan 3-Odd	
28	RXinO3+	+ LVDS differential data input, Chan 3-Odd	
29	GND	Ground	
30	RXinO4-	- LVDS differential data input, Chan 4-Odd	
31	RXinO4+	+ LVDS differential data input, Chan 4-Odd	[LCD Module Rear View]
32	GND	Ground	
33	RXinE0-	- LVDS differential data input, Chan 0-Even	
34	RXinE0+	+ LVDS differential data input, Chan 0-Even	
35	GND	Ground	
36	RXinE1-	- LVDS differential data input, Chan 1-Even	
37	RXinE1+	+ LVDS differential data input, Chan 1-Even	
38	GND	Ground	
39	RXinE2-	- LVDS differential data input, Chan 2-Even	
40	RXinE2+	+ LVDS differential data input, Chan 2-Even	
41	GND	Ground	
42	RXEC-	- LVDS Differential Clock input (Even)	
43	RXEC+	+ LVDS Differential Clock input (Even)	
44	GND	Ground	
45	RXinE3-	- LVDS differential data input, Chan 3-Even	
46	RXinE3+	+ LVDS differential data input, Chan 3-Even	
47	GND	Ground	
48	RXinE4-	- LVDS differential data input, Chan 4-Even	
49	RXinE4+	+ LVDS differential data input, Chan 4-Even	
50	GND	Ground	



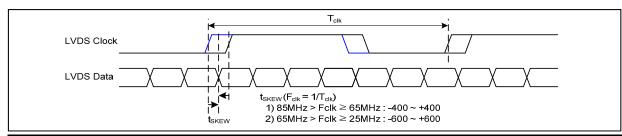
3-3. LVDS Signal Timing Specifications

3-3-1. DC Specification



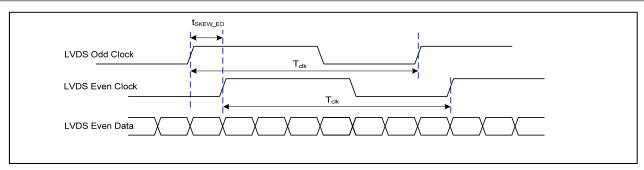
Description	Symb ol	Min	Max	Unit	Notes
LVDS Differential Voltage	V _{ID}	100	600	mV	-
LVDS Common mode Voltage	V_{CM}	0.6	1.8	V	-
LVDS Input Voltage Range	V _{IN}	0.3	2.1	V	-

3-3-2. AC Specification

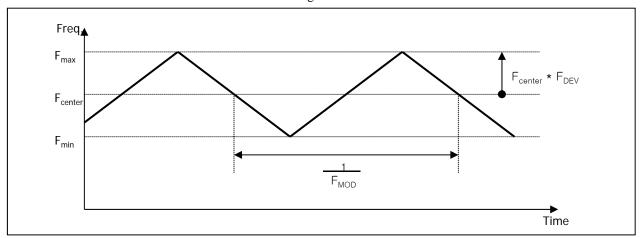


Description	Symbol	Min	Max	Unit	Notes
LVDS Clock to Data Skow Margin	t _{skew}	- 400	+ 400	ps	85MHz > Fclk ≥ 65MHz
LVDS Clock to Data Skew Margin	t _{skew}	- 600	+ 600	ps	65MHz > Fclk ≥ 25MHz
LVDS Clock to Clock Skew Margin (Even to Odd)	t _{skew_eo}	- 1/7	+ 1/7	T _{clk}	-
Maximum deviation of input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





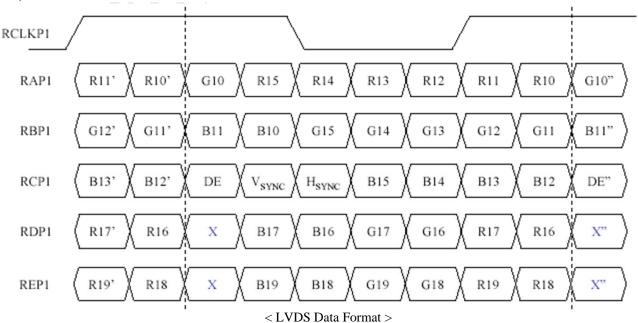
< Clock skew margin between channel >



< Spread Spectrum >

3-3-3. Data Format

1) LVDS Data Port



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Table 4. BACKLIGHT CONNECTOR PIN CONFIGURATION (CN2)

Pin	Symbol	Description	Notes
1	GND	Ground	1. Connector
2	Reserved	Reserved	1.1 LCD : Hirose DF19KR
3	BLIM	PWM for Luminance Control (720~1KHz, 3.3V, 5~100%) or DC(0~3.3v)	or equivalent 1.2 Mating : Hirose equivalent. 1.3 Connector pin arrangement
4	BL_Enable	BL On/Off Control (On: 3.0~3.6v, Off: 0~0.5v)	1.3 connector pin arrangement 1
5	GND	Ground	
6	I2C_CLK	CLK for RGB control	
7	I2C_DATA	DATA for RGB control	[LCD Module Rear View]
8	GND	Ground	
9	NC	No Connection	
10	VBL-	Ground	
11	VBL-	Ground	
12	VBL-	Ground	
13	VBL-	Ground	
14	VBL-	Ground	
15	VBL+	7.5V - 21V LED Power	
16	VBL+	7.5V - 21V LED Power	
17	VBL+	7.5V - 21V LED Power	
18	VBL+	7.5V - 21V LED Power	
19	VBL+	7.5V - 21V LED Power	
20	GND	Ground	

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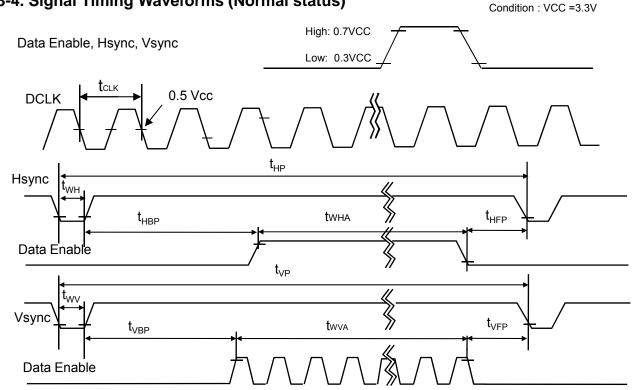
3-3. Signal Timing Specifications

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.

Table 5. TIMING TABLE

ITEM	Symbol	-	Min	Тур	Max	Unit	Note
DCLK	Frequency	f_{CLK}	67.17	69.35	72.65	MHz	LVDS 2 Port
	Period	t _{HP}	1020	1040	1078		
Hsync	Width	t _{wH}	16	16	16	tCLK	
	Width-Active	t _{wha}	960	960	960		
	Period	t _{VP}	1096	1111	1122		
Vsync	Width	t _{wv}	5	5	5	tHP	
	Width-Active	t _{WVA}	1080	1080	1080		
	Horizontal back porch	t _{HBP}	34	40	50	+C1 V	
Data	Horizontal front porch	t _{HFP}	10	24	52	tCLK	
Enable	Vertical back porch	t _{VBP}	10	23	28	+UD	
	Vertical front porch	t_{VFP}	1	3	9	tHP	

3-4. Signal Timing Waveforms (Normal status)



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3-5. Color Input Data Reference

The brightness of each primary color (red,green and blue) is based on the 10-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.

Table 6. COLOR DATA REFERENCE

				Input Co	olor Data		
C	Color		RED	GF	REEN	BLUE	
		MSB	LSB	MSB	LSB	MSB	LSB
		R9 R8 R7 R6	6 R5 R4 R3 R2 R1 R0	G9 G8 G7 G6 G5	5 G4 G3 G2 G1 G0	B9 B8 B7 B6 B5 B4 B3 B	2 B1 B0
	Black	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
	Red (1023)	1 1 1 1	1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0	0 0
	Green (1023)	0 0 0 0	0 0 0 0 0 0	1 1 1 1 1	1 1 1 1 1	0 0 0 0 0 0 0	0 0
Basic	Blue (1023)	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 1 1	1 1 1
Color	Cyan	0 0 0 0	0 0 0 0 0 0	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1	1 1 1
	Magenta	1 1 1 1	1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 1 1 .	1 1 1
	Yellow	1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	0 0 0 0 0 0 0	0 0
	White	1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1
	RED (000)	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
	RED (001)	0 0 0 0	0 0 0 0 0 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0	0 0
RED							
	RED (1022)	1 1 1 1	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
	RED (1023)	1 1 1 1	111111	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
	GREEN (000)	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 (001)	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 1	0 0 0 0 0 0 0	0 0
GREEN							
	GREEN (1022)	0 0 0 0	0 0 0 0 0 0	1 1 1 1 1	1 1 1 1 0	0 0 0 0 0 0 0 0	0 0
	GREEN (1023)	0 0 0 0	0 0 0 0 0 0	1 1 1 1 1	1 1 1 1 1	0 0 0 0 0 0 0 0	0 0
	BLUE (000)	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
	BLUE (001)	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 1
BLUE							
	BLUE (1022)	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 1 1 1	1 0
	BLUE (1023)	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	11111111	1 1



3-6. Power Sequence

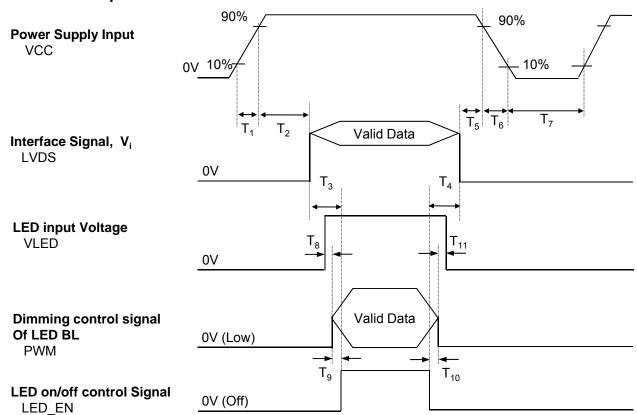


Table 6. POWER SEQUENCE TABLE

	10.010 01 1	OWEN CEGO		 _
Deremeter		Value	Llaita	
Parameter	Min.	Тур.	Max.	Units
T ₁	0.5	-	10	ms
T ₂	0	-	50	ms
T ₃	300	-	-	ms
T ₄	300	-	-	ms
T ₅	0	-	50	ms
T ₆	3	-	10	ms
T ₇	400	-	-	ms
T ₈	10	-	-	ms
T ₉	10	-	-	ms
T ₁₀	10	-	-	ms
T ₁₁	10	-	-	ms

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. Lamp 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 presents additional information concerning the measurement equipment and method.

FIG. 1 Optical Characteristic Measurement Equipment and Method

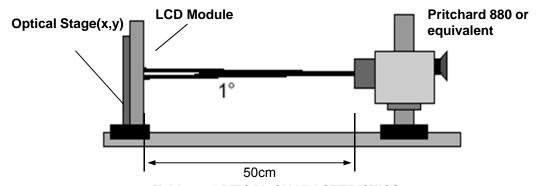


Table 8. OPTICAL CHARACTERISTICS

 $Ta=25^{\circ}C,\ VCC=3.3V,\ fv=60Hz,\ f_{CLK}=69.35MHz(LVDS\ 2Port),\ Finished\ Color\ Calibration$

Davanatas	Commando a l		Values		Llaita	Natas	
Parameter	Symbol	Min	Тур	Max	Units	Notes	
Contrast Ratio	CR	600	-	-		1	
Surface Luminance, white	L _{WH}	250	300	-	cd/m ²	2	
Luminance Variation	δ_{WHITE}	-	1.4	1.6		3	
Response Time						4	
Rise Time+Decay Time (W to B)	$Tr_{R +} Tr_{D}$	-	35	50	ms		
Color Coordinates							
RED	RX	0.652	0.682	0.712			
	RY	0.275	0.305	0.335			
GREEN	GX	0.169	0.199	0.229			
	GY	0.691	0.721	0.751			
BLUE	BX	0.121	0.151	0.181			
	BY	0.015	0.045	0.075			
WHITE	WX	0.283	0.313	0.343			
	WY	0.299	0.329	0.359			
Viewing Angle						5	
x axis, right(Φ=0°)	Θr	80	89	-	degree		
x axis, left (Φ=180°)	Θl	80	89	-	degree		
y axis, up (⊕=90°)	Θu	80	89	-	degree		
y axis, down (Φ=270°)	Θd	80	89		degree		

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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 5point (1~5)average across the LCD surface 50cm from the surface with all pixels displaying white Luminance (300nit). For more information see FIG 2.
- 3. Luminance % uniformity is measured for 13 point For more information see FIG 2. δ WHITE = Maximum(LN1,LN2, LN13) ÷ Minimum(LN1,LN2, LN13)
- 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.
- 6. Gray scale specification

* f_{\/}=60Hz

Gray Level	Luminance [%] (Typ)
L0	0.10
L63	0.23
L127	0.79
L191	2.13
L255	4.49
L319	7.70
L383	11.7
L447	16.3
L511	21.4
L575	27.9
L639	35.2
L703	43.1
L767	51.8
L831	62.1
L895	74.4
L959	87.6
L1023	100

-. △L Reference Level : 16 steps from gray 0 to gray 1023

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FIG. 2 Luminance

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

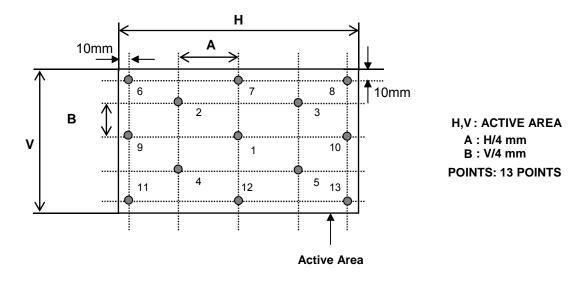
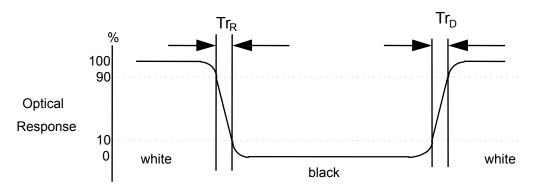


FIG. 3 Response Time

The response time is defined as the following figure and shall be measured by switching the input signal for "black" and "white" In condition of RGB LED Duty 100%



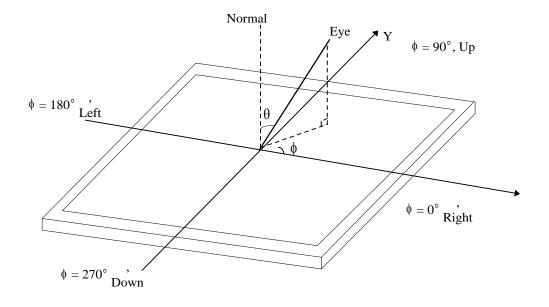
In other condition (For example, RGB LED Duty 80%), The response time defined as measurement data which is not lack

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FIG. 4 Viewing angle

<Dimension of viewing angle range>



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5. Mechanical Characteristics

The contents provide general mechanical characteristics for the model LP173WF3(SLB1). In addition the figures in the next page are detailed mechanical drawing of the LCD.

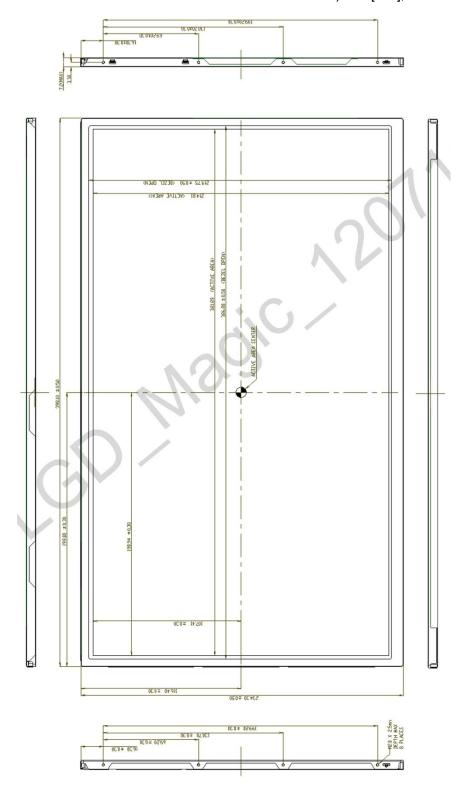
	Horizontal	398.1 \pm 0.5 mm		
Outline Dimension	Vertical	234.3 \pm 0.5 mm		
	Depth (Max)	7.2 mm		
Bezel Area	Horizontal	386.70(H)		
bezei Alea	Vertical	219.75(V)		
Active Diepley Area	Horizontal	381.90 mm		
Active Display Area	Vertical	214.80 mm		
Weight	830 g (MAX)			
Surface Treatment	Hard coating(3H) Anti-Glare treat	ment of the front polarizer		

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<FRONT VIEW>

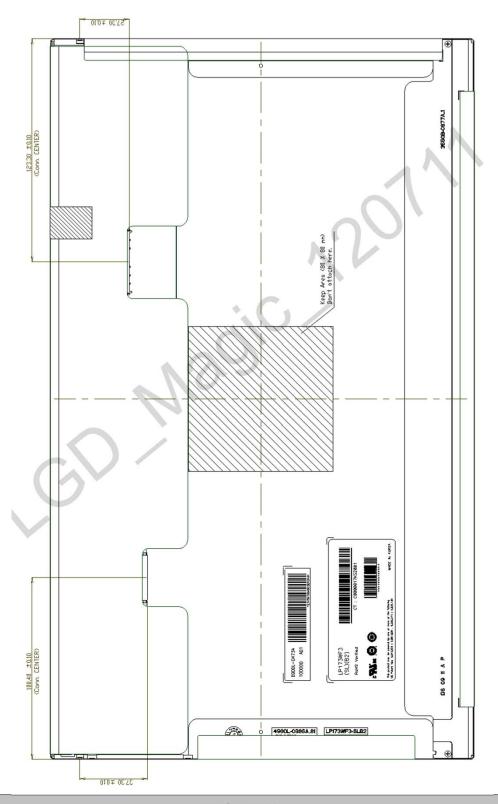
Note) Unit:[mm], General tolerance: \pm 0.5mm





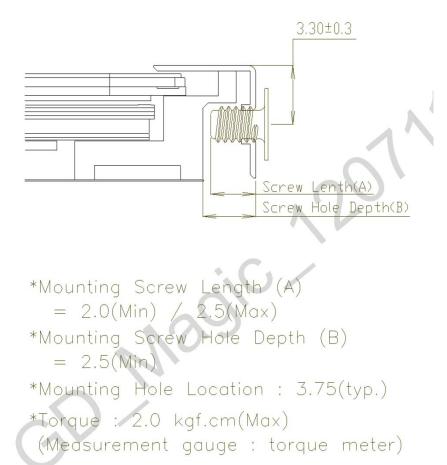
<REAR VIEW>

Note) Unit:[mm], General tolerance: \pm 0.5mm





[DETAIL DESCRIPTION OF SIDE MOUNTING SCREW]



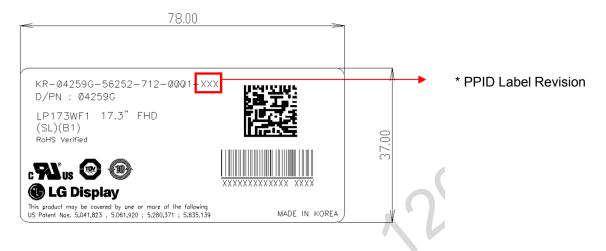
Notes: 1. Screw plated through the method of non-electrolytic nickel plating is preferred to reduce possibility that results in vertical and/or horizontal line defect due to the conductive particles from screw surface.

Note) Unit:[mm], General tolerance: ± 0.5mm

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[DETAIL INFORMATION OF PPID LABEL AND REVISION CODE]



* PPID Label Revision :

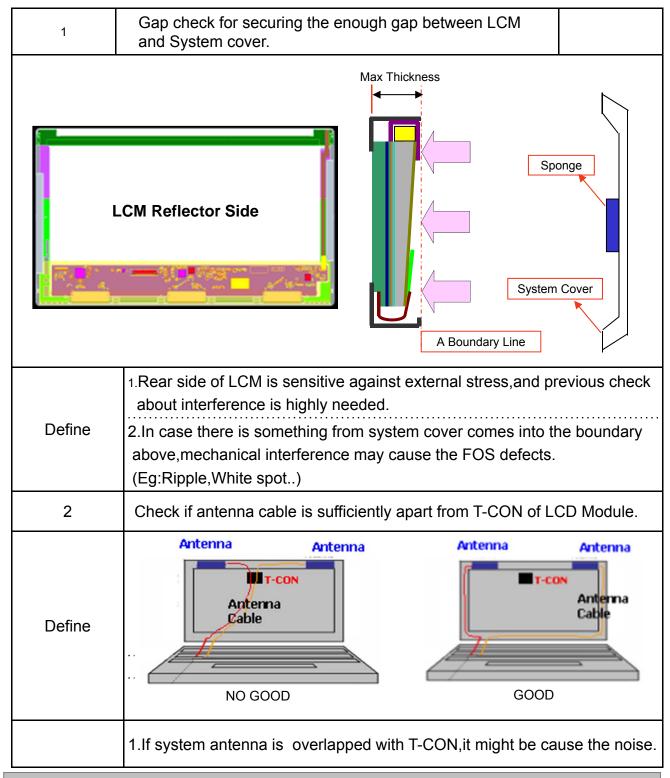
It is subject to change with Dell event. Please refer to the below table for detail.

Classification	No Change	1st Revision	2nd Revision	•••	9th Revision	
SST(WS)	X00	X01	X02	***	A09	
PT(ES)	X10	X11	X12	•••	A19	•••
ST(CS)	X20	X21	X22	***	A29	
XB(MP)	A00	A01	A02	***	A09	

Note) Unit:[mm], General tolerance: ± 0.5mm



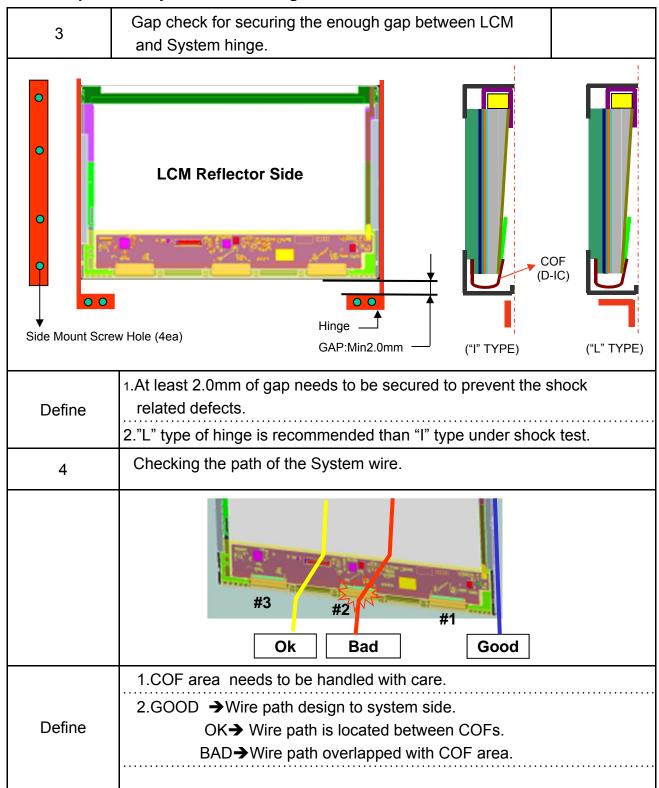
LGD Proposal for system cover design.(Appendix)



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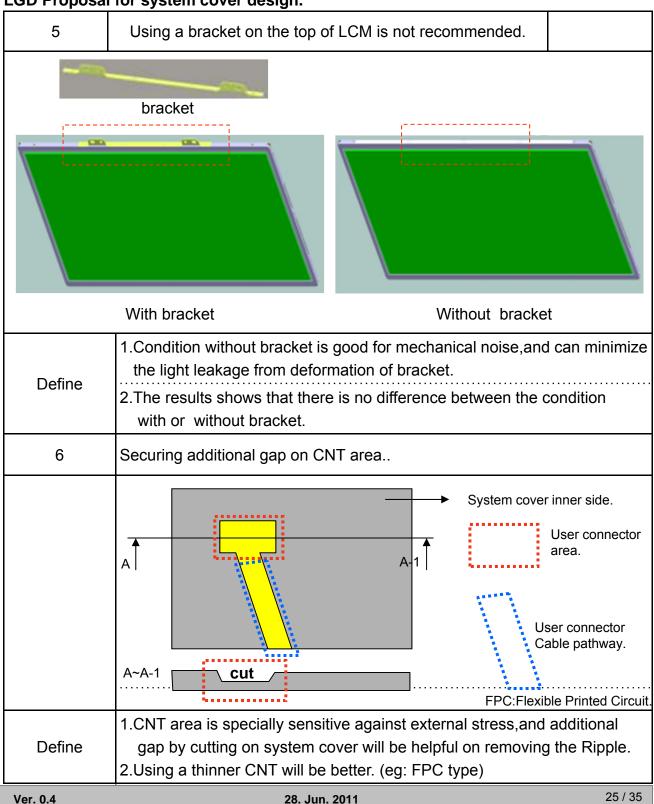


LGD Proposal for system cover design.

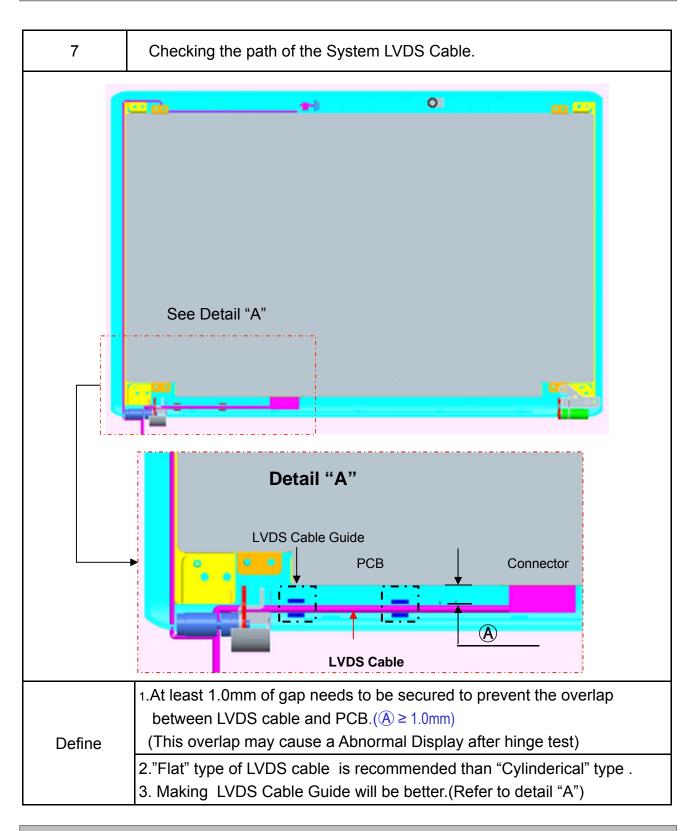




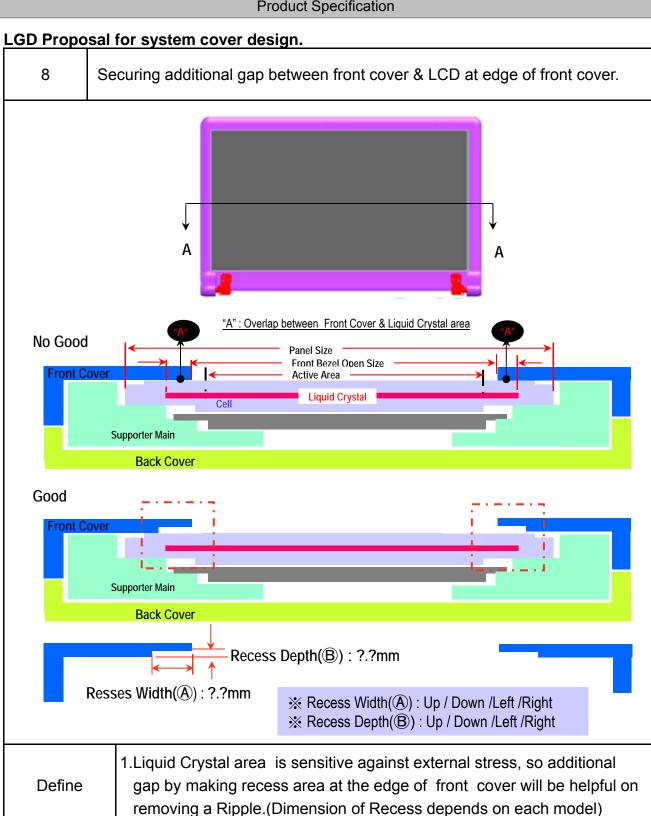
LGD Proposal for system cover design.













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, 5 ~ 150Hz, 1.5G, 0.37oct/min 3 axis, 30min/axis
6	Shock test (non-operating)	 No functional or cosmetic defects following a shock to all 6 sides delivering at least 200 G in a half sine pulse no longer than 2 ms to the display module No functional defects following a shock delivering at least 260 g in a half sine pulse no longer than 2 ms to each of 6 sides. Each of the 6 sides will be shock tested with one each display, for a total of 6 displays
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.

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7. International Standards

7-1. Safety

- a) UL 60950-1, Second Edition, Underwriters Laboratories Inc.
 Information Technology Equipment Safety Part 1: General Requirements.
- b) CAN/CSA C22.2 No.60950-1-07, Second Edition, Canadian Standards Association. Information Technology Equipment Safety Part 1: General Requirements.
- c) EN 60950-1:2006 + A11:2009, European Committee for Electrotechnical Standardization(CENELEC). Information Technology Equipment Safety Part 1 : General Requirements.
- d) IEC 60950-1:2005, Second Edition, The International Electrotechnical Commission (IEC). Information Technology Equipment Safety Part 1 : General Requirements.

7-2. EMC

- a) ANSI C63.4 2003 "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz." American National Standards Institute (ANSI), 2003.
- b) C.I.S.P.R. Pub. 22. Limits and methods of measurement of radio interference characteristics of information technology equipment." International Special Committee on Radio Interference (C.I.S.P.R.), 2005.
- c) EN 55022 "Limits and methods of measurement of radio interference characteristics of information technology equipment." European Committee for Electrotechnical Standardization (CENELEC), 2006.

7-3. Environment

a) RoHS, Directive 2002/95/EC of the European Parliament and of the council of 27 January 2003

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8. Packing

8-1. Designation of Lot Mark

a) Lot Mark

Α	В	С	D	Е	F	G	Н	I	J	К	L	М
---	---	---	---	---	---	---	---	---	---	---	---	---

A,B,C : SIZE(INCH) D : YEAR

E: MONTH $F \sim M$: SERIAL NO.

Note

1. YEAR

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Mark	Α	В	С	D	Е	F	G	Н	J	K

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	Α	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: 20ea

b) Box Size: 490*390*298

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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 t h e 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 : $V=\pm~200mV(Over~and~under~shoot~voltage)$
- (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.

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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.

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

	Byte	Byte	Field Name and Comments	Value	Value
	(Dec)	(Hex)	Header	(Hex)	(Bin)
	1	01	Header	00 FF	11111111
	2	02	Header	FF	11111111
ler.	3	03	Header	FF	111111111
Header	4	03	Header	FF	11111111
Ħ	5	05	Header	FF	11111111
	6	06	Header	FF	11111111
	7	07	Header	00	00000000
	8	08	ID Manufacture Name LGD	30	00110000
	9	09	ID Manufacture Name	E4	11100100
	10	0A	ID Product Code 0310h	10	00010000
c	11	0B	(Hex. LSB first)	03	00000011
Zqr	12	0C	ID Serial No Optional ("00h" If not used, Number Only and LSB First)	00	00000000
Prc	13	0D	ID Serial No Optional ("00h" If not used, Number Only and LSB First)	00	00000000
?	14	0E	ID Serial No Optional ("00h" If not used, Number Only and LSB First)	00	00000000
dor	15	0F	ID Serial No Optional ("00h" If not used, Number Only and LSB First)	00	00000000
Vendor / Product	16	10	Week of Manufacture - Optinal 00 weeks	00	00000000
7	17	11	Year of Manufacture 2011 years	15	00010101
	18	12	EDID structure version # = 1	01	00000001
	19	13	EDID revision # = 4	04	00000100
	20	14	Video input Definition = Input is a Digital Video signal Interface , Colo Bit Depth : 10 Bits per Primary Color , Digital	B0	10110000
	21	15	Video Interface Standard Supported: Digital Interface is not defined Horizontal Screen Size (Rounded cm) = 38 cm	26	00100110
l g	22	16	Vertical Screen Size (Rounded cm) = 21 cm	15	00010101
Display	23	17	Display Transfer Characteristic (Gamma) = (gamma*100)-100 = Example:(2.2*100)-100=120 = 2.2 Gamma	78	01111000
a	24	18	Peature Support Display Fower Management(DFM): Standay Mode is not supported, Suspend Mode is not supported, Active Off = Very Low Power is not supported, Supported Color Encoding Formats: RGB 4:4:4. Other Feature Support Flags: No_sRGB, Preferred Timing Mode, No_Display is continuous frequency (Multi-mode_Base EDID and	02	00000010
	25	19	Red/Green Low Bits (RxRy/GxGy)	82	10000010
и.	26	1A	Blue/White Low Bits (BxBy/WxWy)	E5	11100101
nca nc	27	1B	Red X Rx = 0.682	AE	10101110
po.	28	1C	Red Y Ry = 0.305	4 E	01001110
Ţ.	29	1D	Green X $Gx = 0.199$	33	00110011
ž	30	1E	Green Y $Gy = 0.721$	B8	10111000
Vendor / Product	31	1F	Blue X $Bx = 0.151$	26	00100110
Ze	32	20	Blue Y By = 0.045	0B	00001011
,	33	21	White X $Wx = 0.313$	50	01010000
	34	22	White Y $Wy = 0.329$	54	01010100
<i>p</i> .	35	23	Established timing 1 (Optional_00h if not used)	00	00000000
Establ ished	36	24	Established timing 2 (Optional_00h if not used)	00	00000000
E	37	25	Manufacturer's timings (Optional_00h if not used)	00	00000000
	38	26	Standard timing ID1 (Optional_01h if not used)	01	00000001
	20		0. 1 12 1 70 (0.2 1.01120	0.1	00000001
	39	27	Standard timing ID1 (Optional_01h if not used)	01	
	40	28	Standard timing ID2 (Optional_01h if not used)	01	00000001
į	40	28 29	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used)	01 01	00000001
Œ	40 41 42	28 29 2A	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used)	01 01 01	00000001 00000001
ng ID	40 41 42 43	28 29 2A 2B	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used)	01 01 01 01	00000001 00000001 00000001
raing ID	40 41 42 43 44	28 29 2A 2B 2C	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used)	01 01 01 01 01	00000001 00000001 00000001
Timing ID	40 41 42 43 44 45	28 29 2A 2B 2C 2D	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used)	01 01 01 01 01 01	00000001 00000001 00000001 00000001
rd Tuning ID	40 41 42 43 44 45 46	28 29 2A 2B 2C 2D 2E	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used)	01 01 01 01 01 01 01	00000001 00000001 00000001 00000001 000000
dard Timing ID	40 41 42 43 44 45 46 47	28 29 2A 2B 2C 2D 2E 2F	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used)	01 01 01 01 01 01 01	00000001 00000001 00000001 00000001 000000
lphaandard Timing ID	40 41 42 43 44 45 46 47 48	28 29 2A 2B 2C 2D 2E 2F 30	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used)	01 01 01 01 01 01 01 01	00000001 00000001 00000001 00000001 000000
Standard Tuning ID	40 41 42 43 44 45 46 47 48	28 29 2A 2B 2C 2D 2E 2F 30 31	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used)	01 01 01 01 01 01 01 01 01	00000001 00000001 00000001 00000001 000000
Standard Tuning ID	40 41 42 43 44 45 46 47 48 49	28 29 2A 2B 2C 2D 2E 2F 30 31 32	Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used) Standard timing ID7 (Optional_01h if not used)	01 01 01 01 01 01 01 01 01	00000001 00000001 00000001 00000001 000000
Standard Timing ID	40 41 42 43 44 45 46 47 48	28 29 2A 2B 2C 2D 2E 2F 30 31	Standard timing ID2 (Optional_01h if not used) Standard timing ID2 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID3 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID4 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID5 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used) Standard timing ID6 (Optional_01h if not used)	01 01 01 01 01 01 01 01 01	00000001 00000001 00000001 00000001 000000

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

	Byte (Dec)	Byte (Hex)	Field Name and Comments	Value (Hex)	Value (Bin)
	54	36	Pixel Clock/10,000 (LSB) 138.7 MHz @ 60Hz	2E	00101110
Timing Descriptor #1	55	37	Pixel Clock/10,000 (MSB)	36	00110110
	56	38	Horizontal Active (HA) (lower 8 bits) 1920 Pixels	80	10000000
	57	39	Horizontal Blanking (HB) (lower 8 bits) 160 Pixels	A0	10100000
	58	3A	Horizontal Active / Horizontal Blanking(HA HB) (upper 4:4bits)	70	01110000
	59	3B	Vertical Avtive (VA) 1080 Lines	38	00111000
	60	3C	Vertical Blanking (VB) (DE Blanking typ.for DE only panels) 31 Lines	1F	00011111
iρt	61	3D	Vertical Active / Vertical Blanking (VA VB) (upper 4:4bits)	40	01000000
sci	62	3E	Horizontal Front Porch in pixels (HF) (lower 8 bits)48 Pixels	30	00110000
De	63	3F	Horizontal Sync Pulse Width in pixels (HS) (lower 8 bits) 32 Pixels	20	00100000
g_{i}	64	40	Vertical Front Porch in lines (VF) (lower 4 bits): Vertical Sync Pluse Width in lines (VS) (lower 4 bits)	35	00110101
mi	65	41	Horizontal Front Porch/ Sync Pulse Width/ Vertical Front Porch/ Sync Pulse Width (upper 2bits)	00	00000000
Tü	66	42	Horizontal Vedio Image Size (mm) (lower 8 bits) 382 mm	7E	01111110
	67	43	Vertical Vedio Image Size (mm) (lower 8 bits) 215 mm	D7	11010111
	68	44	Horizontal Image Size / Vertical Image Size (upper 4 bits)	10	00010000
	69	45	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000
	70	46	Vertical Border = 0 (Zero for Notebook LCD) Non-Interlace, Normal display, no stereo, Digital Separate [Vsync_NEG, Hsync_NEG (outside of V-sync)]See the	00	00000000
	71	47	EDID Format	19	00011001
	72	48	Pixel Clock/10,000 (LSB) 138.7 MHz @ 60Hz	2E	00101110
	73	49	Pixel Clock/10,000 (MSB)	36	00110110
	74	4A	Horizontal Active (HA) (lower 8 bits) 1920 Pixels	80	10000000
	75	4B	Horizontal Blanking (HB) (lower 8 bits) 160 Pixels	A0	10100000
•	76	4C	Horizontal Active / Horizontal Blanking(HA HB) (upper 4:4bits)	70	01110000
#	77	4D	Vertical Avtive (VA) 1080 Lines	38	00111000
tor	78	4E	Vertical Blanking (VB) (DE Blanking typ.for DE only panels) 31 Lines	1F	00011111
rip	79	4F	Vertical Active / Vertical Blanking (VA VB) (upper 4:4bits)	40	01000000
3SC	80	50	Horizontal Front Porch in pixels (HF) (lower 8 bits)48 Pixels	30	00110000
Ď	81		Horizontal Sync Pulse Width in pixels (HS) (lower 8 bits) 32 Pixels	20	00100000
Timing Descriptor #2	82	52	Vertical Front Porch in lines (VF) (lower 4 bits): Vertical Sync Pluse Width in lines (VS) (lower 4 bits)	35	00110101
imi	83	53	Horizontal Front Porch/ Sync Pulse Width/ Vertical Front Porch/ Sync Pulse Width (upper 2bits)	00	00000000
T	84	54	Horizontal Vedio Image Size (mm) (lower 8 bits) 382 mm	7E	01111110
	85	55	Vertical Vedio Image Size (mm) (lower 8 bits) 215 mm	D7	11010111
	86	56	Horizontal Image Size / Vertical Image Size (upper 4 bits)	10	00010000
	87	57	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000
	88	58 59	Vertical Border = 0 (Zero for Notebook LCD) Non-Interlace, Normal display, no stereo, Digital Separate [Vsync_NEG, Hsync_NEG (outside of V-sync)]See the	10	00000000
	89		EDID Formet	19	00011001
	90		Flag	00	00000000
	91 92		Flag	00	00000000
	92	5C 5D	Flag Data Type Tag: Alphanumeric Data String (ASCII String)	00 FE	00000000
	93		Flag	00	00000000
α	95		Dell P/N 1st Character = 4	34	00110100
r.	96	60	Dell P/N 2nd Character = 2	32	00110100
)to	97	61	Dell P/N 3rd Character = 5	35	00110010
cri	98		Dell P/N 4th Character = 9	39	00110101
ese	99		Dell P/N 5th Character = G	47	01000111
g L	100	64	EDID Revision Build Name = ST1 (CS), Revision # = X20	14	00010100
ing	101	65	Manufacturer P/N = $\frac{1}{1}$	31	00110001
Timing Descriptor #3	102	66	Manufacturer $P/N = 7$	37	00110111
	103	67	Manufacturer P/N = 3	33	00110111
	104	68	Manufacturer P/N = W	57	01010111
	105	69	Manufacturer P/N = F	46	01000110
	106	6A	Manufacturer P/N = 3	33	00110011
	107		Manufacturer P/N (If < 13 char, then terminate with ASC II code 0Ah,set remaining char = 20h)	0A	00001010
<u> </u>	107	UD	Translate and 177 (II < 15 char, then terminate with A5C II code O'All, Set Termanning Char – 2011)	UΑ	00001010

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	Byte (Dec)	Byte (Hex)	Field Name and Comments					
	108	6C	Flag	00	00000000			
	109	6D	Flag	00	00000000			
	110	6E	Flag	00	00000000			
	111	6F	Data Type Tag: Descriptor Defined by manufacturer					
2.	112	70	Flag					
#	113	71	Color Management [No +2 FRC Support, True Color Depth: 10 bit]					
Timing Descriptor #4	114	72	Panel Type [RGB LED], Configuration [Back light color Adjustment], Number Lamp or LED Light Bar [one] Frame Kate Details Minimum Frame Kate: 40Hz, Maximum Frame Kate: 05Hz, 100 provides native interivo	4A	01001010			
Ţ.	115	73	Frame Kate Details [Minimum Frame Kate : 40HZ, Maximum Frame Kate : 65HZ , 1 con provides native Intel No IDDS (61DDS (100pport)	01	00000001			
sci	116	74	Controller Interface and Maximum Luminance [PWM type, 300 nit]	9E	10011110			
ద	117	75	Front Surface / Polarizer [Anti-Glare, No Transflective] , Pixel Structure [RGB v-stripe] Multi-Media Features [Color Management : NTSC, Dynamic Backlight Control : No]					
2 0	118	76						
Ţģ.	119	77 Multi-Media Features [Motion Blur : No support , Active Gamma Control : No support]			00000000			
In In	120	78	Special Features [Wireless Enhancement Hardware : No support , In-Cell Scanner : No support] Special Features [Number of LVDS channels of eDF lanes : two , Overdrive : yes , Interface : LVDS , In-Cell Touch					
	121	79						
	122	7A	Special Features [BIST Support : yes , Electronic Privacy : No electronic privacy hardware support , 3-D Support : No]	01	00000001			
	123	7B	(If<13 char> 0Ah, then terminate with ASC Π code 0Ah,set remaining char = 20h)	0A	00001010			
	124	7C	(If<13 char> 0Ah, then terminate with ASC Π code 0Ah,set remaining char = 20h)	20	00100000			
	125	7D	(If<13 char> 0Ah, then terminate with ASC Π code 0Ah,set remaining char = 20h)	20	00100000			
-	126	7 E	Extension flag (# of optional 128 panel ID extension block to follow, Typ = 0)	00	00000000			
Checksum	127	7 F	Check Sum (The 1-byte sum of all 128 bytes in this panel ID block shall $= 0$)	31	00110001			

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