



LC260EXJ

Product Specification

SPECIFICATION FOR APPROVAL

(●) Preliminary Specification

() Final Specification

Title	26.0" WUXGA TFT LCD
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BUYER	LGE
MODEL	

SUPPLIER	LG.Display Co., Ltd.
MODEL	LC260EXJ
SUFFIX	SDA1 (RoHS Verified)

APPROVED BY	SIGNATURE	DATE
/		
/		
/		

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

APPROVED BY	SIGNATURE	DATE
K. S. Nah / Chief Senior Engineer		
REVIEWED BY		
K.N. Kim / Chief Senior Engineer		
PREPARED BY		
J.H. Song / Senior Engineer		

PD Product Design Dept.
LG Display Co., Ltd



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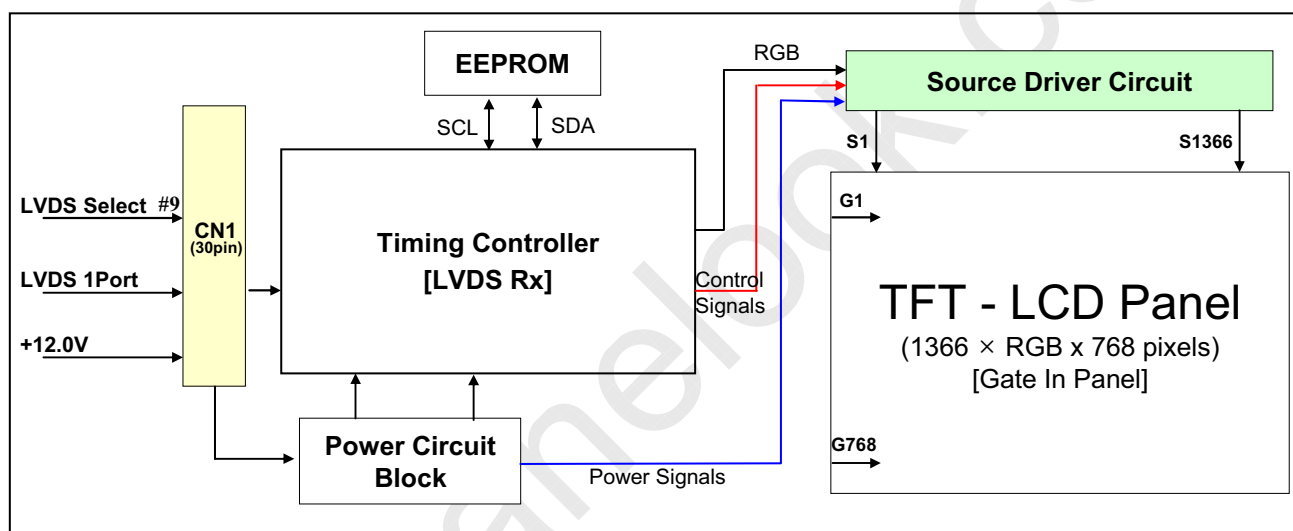
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1. General Description

The LC260EXJ is a Color Active Matrix Liquid Crystal Displa. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive display type which is operating in the normally black mode. It has a 26.01 inch diagonally measured active display area with WXGA resolution (768 vertical by 1366 horizontal pixel array). Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in Horizontal stripes. Gray scale or the luminance of the sub-pixel color is determined with a 8-bit gray scale signal for each dot, thus presenting a palette of more than 16.7M(6bit + A-FRC) colors. It has been designed to apply the 8-bit 1-port LVDS interface.

It is intended to support LCD TV, PCTV where high brightness, super wide viewing angle, high color gamut, high color depth and fast response time are important.



General Features

Active Screen Size	26.01 inches(660.6mm) diagonal
Outline Dimension	594.2(H) x 341.5(V) x 1.8(D)mm
Pixel Pitch	140.5 μ m x RGB X 421.5 μ m
Pixel Format	1366 horiz. by 768 vert. pixels RGB stripe arrangement
Color Depth	8bit(D), 16,7 M colors
Transmittance (With POL)	4.84 %(Typ.)
Viewing Angle (CR>10)	Viewing angle free (R/L 178(Min.), U/D 178(Min.))
Power Consumption	Total 2.7 W(Typ)(TBD)
Weight	820g(Typ.), 900g(Max)
Display Operating Mode	Transmissive mode, normally black
Surface Treatment	Hard coating(3H), Anti-glare treatment of the front polarizer (Haze 10%)
Possible Display Type	Landscape only

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2. Absolute Maximum Ratings

The following items are maximum values which, if exceeded, may cause faulty operation or permanent damage to the LCD module.

Table 1. ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Value		Unit	Note
			Min	Max		
Power Input Voltage	LCD Circuit	VLCD	-0.3	+14.0	VDC	1
	Driver	VBL	-0.3	+ 27.0	VDC	
Driver Control Voltage	ON/OFF	VOFF / VON	-0.3	+5.5	VDC	
	Brightness	EXTVBR-B	0.0	+5.5	VDC	
T-Con Option Selection Voltage		VLOGIC	-0.3	+4.0	VDC	
Operating Temperature		TOP	0	+50	°C	2,3
Storage Temperature		TST	-20	+60	°C	
Panel Front Temperature		TSUR	-	+68	°C	4
Operating Ambient Humidity		HOP	10	90	%RH	2,3
Storage Humidity		HST	10	90	%RH	

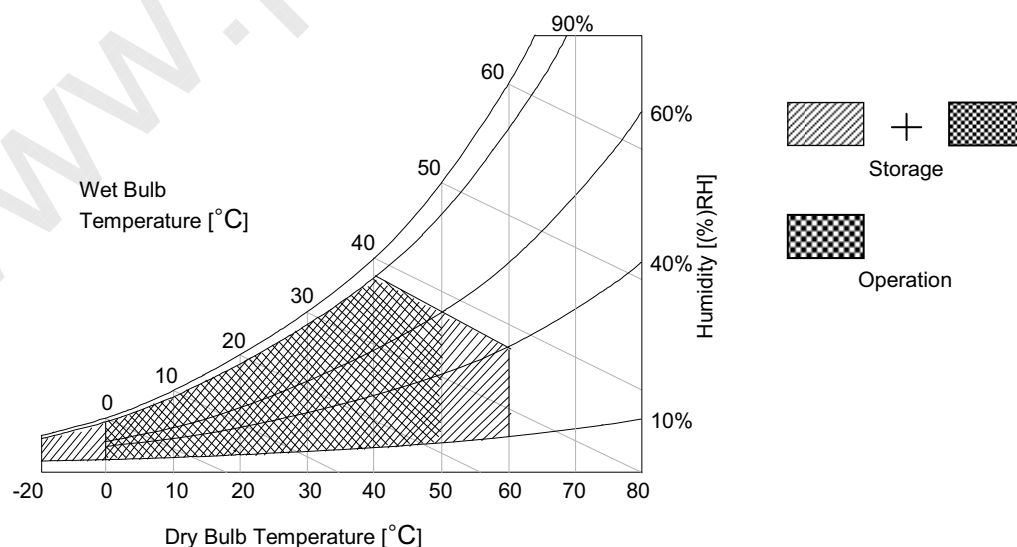
Note1. Ambient temperature condition ($T_a = 25 \pm 2^\circ\text{C}$)

2. Temperature and relative humidity range are shown in the figure below.

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

3. Gravity mura can be guaranteed below 40°C condition.

4. The maximum operating temperatures is based on the test condition that the surface temperature of display area is less than or equal to 68°C with LCD module alone in a temperature controlled chamber. Thermal management should be considered in final product design to prevent the surface temperature of display area from being over 68°C . The range of operating temperature may be degraded in case of improper thermal management in final product design.



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3-1. Electrical Characteristics

It requires two power inputs. One is employed to power for the LCD circuit. The other is used for the LED backlight and LED Driver circuit.

Table 2. ELECTRICAL CHARACTERISTICS

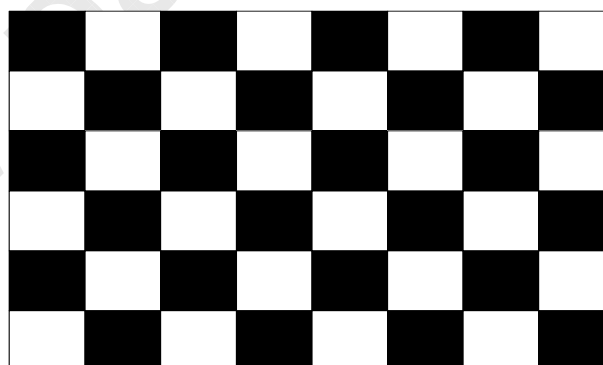
Parameter	Symbol	Value			Unit	Note
		Min	Typ	Max		
Circuit :						
Power Input Voltage	V _{LCD}	10.8	12.0	13.2	V _{DC}	
Power Input Current	I _{LCD}	-	225	293	mA	1
		-	275	356	mA	2
Power Consumption	P _{LCD}	-	2.7	3.51	Watt	1
Rush current	I _{RUSH}	-	-	3.0	A	3

Note

1. The specified current and power consumption are under the $V_{LCD}=12.0V$, $T_a=25 \pm 2^{\circ}C$, $fV=120Hz$ condition, and mosaic pattern(8 x 6) is displayed and fV is the frame frequency.
2. The current is specified at the maximum current pattern.
3. The duration of rush current is about 2ms and rising time of power input is 0.5ms (min.).
4. Ripple voltage level is recommended under $\pm 5\%$ of typical voltage

White : 1023 Gray

Black : 0 Gray



Mosaic Pattern(8 x 6)



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3-2. Interface Connections

This LCD module employs two kinds of interface connection, a 30-pin connector is used for the module electronics and 14-pin connector is used for the integral backlight system.

3-2-1. LCD Module

- LCD Connector(CN1) : KDF71G-30S-1H(Manufactured by Hirose) or FI-X30SSL-HF(Manufactured by JAE).
- Mating Connector : : FI-X30C2L (Manufactured by JAE) or Equivalent

Table 4. MODULE CONNECTOR(CN1) PIN CONFIGURATION

Pin No.	Symbol	Description	Note
1	VLCD	Power Supply +12.0V	
2	VLCD	Power Supply +12.0V	
3	VLCD	Power Supply +12.0V	
4	VLCD	Power Supply +12.0V	
5	GND	Ground	
6	GND	Ground	
7	GND	Ground	
8	GND	Ground	
9	LVDS Select	'H' = JEIDA , 'L' or NC = VESA	Appendix IV
10	NC	No Connection	4
11	GND	Ground	
12	RA-	LVDS Receiver Signal(-)	
13	RA+	LVDS Receiver Signal(+)	
14	GND	Ground	
15	RB-	LVDS Receiver Signal(-)	
16	RB+	LVDS Receiver Signal(+)	
17	GND	Ground	
18	RC-	LVDS Receiver Signal(-)	
19	RC+	LVDS Receiver Signal(+)	
20	GND	Ground	
21	RCLK-	LVDS Receiver Clock Signal(-)	
22	RCLK+	LVDS Receiver Clock Signal(+)	
23	GND	Ground	
24	RD-	LVDS Receiver Signal(-)	
25	RD+	LVDS Receiver Signal(+)	
26	GND	Ground	
27	NC	No Connection (Note 4)	4
28	NC	No Connection (Note 4)	4
29	NC	No Connection (Note 4)	4
30	GND	Ground	5

- Notes :
1. All GND (Ground) pins should be connected together to the LCD module's metal frame.
 2. All VLCD (power input) pins should be connected together.
 3. All Input levels of LVDS signals are based on the EIA 644 Standard.
 4. These pins are used only for LGD (Do not connect)
 5. Specific pin No. #30 is used for "No signal detection" of system signal interface.
It should be GND for NSB (No Signal Black) during the system interface signal is not.
If this pin is "H", LCD Module displays AGP (Auto Generation Pattern).



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3-3. Signal Timing Specifications

Table 6 shows the signal timing required at the input of the LVDS transmitter. All of the interface signal timings should be satisfied with the following specification for normal operation.

Table 6-1. TIMING TABLE (DE Only Mode)

ITEM		Symbol	Min	Typ	Max	Unit	Note
Horizontal	Display Period	t _{HV}	-	1366	-	tclk	
	Blank	t _{HB}	90	162	410	tclk	
	Total	t _{HP}	1456	1528	1776	tclk	
Vertical	Display Period	t _{VV}	-	768	-	tHP	
	Blank	t _{VB}	20 (126)	22 (180)	240 (295)	tHP	1
	Total	t _{VP}	788 (894)	790 (948)	1008 (1063)	tHP	

ITEM		Symbol	Min	Typ	Max	Unit	Note
Frequency	DCLK	f _{CLK}	63.0	72.4	80.0	MHz	
	Horizontal	f _H	45	47.4	55	KHz	2
	Vertical	f _V	57 (47)	60 (50)	63 (53)	Hz	2 NTSC : 57~63Hz (PAL : 47~53Hz)

Note :

1. The input of HSYNC & VSYNC signal does not have an effect on normal operation (DE Only Mode).
If you use spread spectrum of EMI, add some additional clock to minimum value for clock margin.
2. The performance of the electro-optical characteristics may be influenced by variance of the vertical refresh rate and the horizontal frequency

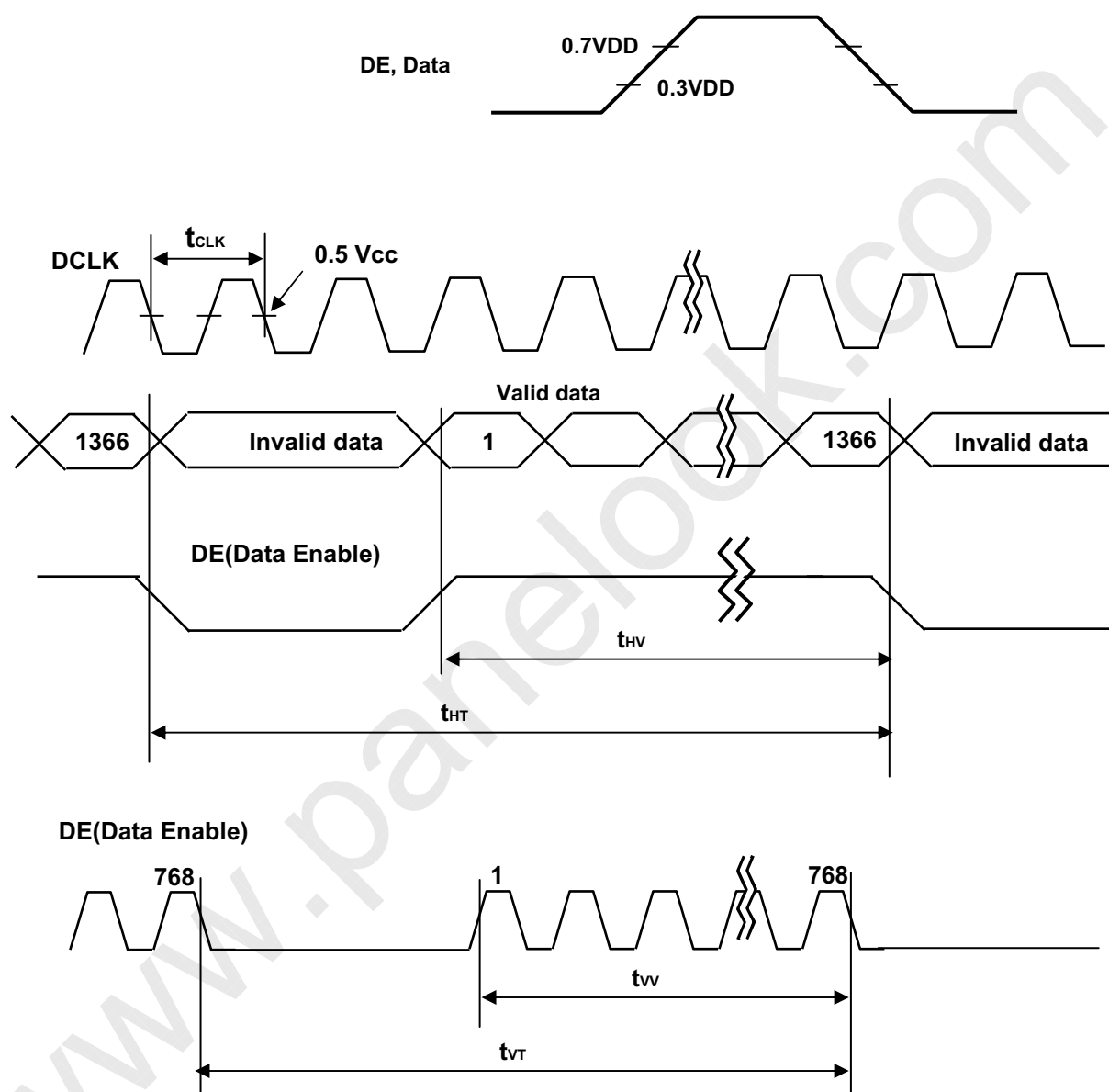
※. Timing should be set based on clock frequency.

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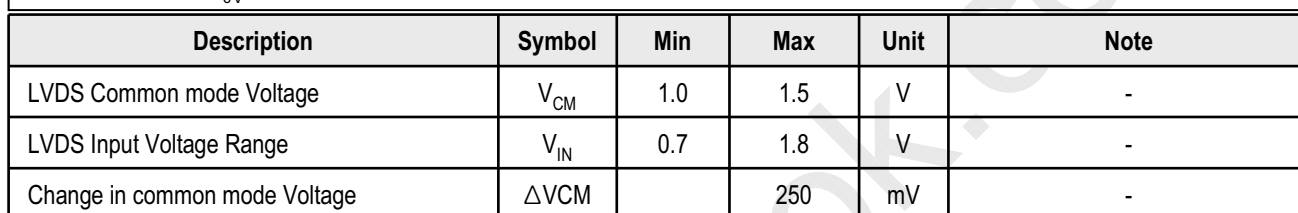
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3-4. Signal Timing Waveforms

3-4-1. LVDS Input Signal Timing Diagram

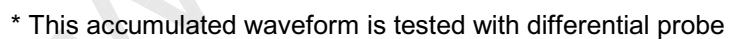


1) DC Specification



Description		Symbol	Min	Max	Unit	Note
LVDS Differential Voltage	High Threshold	V_{TH}	100	300	mV	3
	Low Threshold	V_{TL}	-300	-100	mV	
LVDS Clock to Data Skew Margin		t_{SKEW}		$ (0.2 \cdot T_{clk})/7 $	ps	-
LVDS Clock/DATA Rising/Falling time		t_{RF}	260	$(0.3 \cdot T_{clk})/7$	ps	2
Effective time of LVDS		t_{eff}	± 360		ps	-
LVDS Clock to Clock Skew Margin (Even to Odd)		$t_{SKEW_{EO}}$		$1/7 \cdot T_{clk}$	T_{clk}	-

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3-5. Color Data Reference

The brightness of each primary color (Red, Green, Blue) is based on the 8-bit gray scale data input for the color. The higher binary input, the brighter the color. Table 7 provides a reference for color versus data input.

Table 7. COLOR DATA REFERENCE

Color		Input Color Data																							
		RED								GREEN								BLUE							
		MSB				LSB				MSB				LSB				MSB				LSB			
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	B3	B2	B1	B0
Basic Color	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
	Red (255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green (255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Blue (255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Cyan	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	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	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
RED	RED (000) Dark	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
							
	RED (254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED (255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GREEN	GREEN (000) Dark	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	1	0	0	0	0	0	0	0	0
							
	GREEN (254)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	GREEN (255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
BLUE	BLUE (000) Dark	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	1	0
							
	BLUE (254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	BLUE (255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

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3-6. Power Sequence

3-6-1. LCD Driving circuit

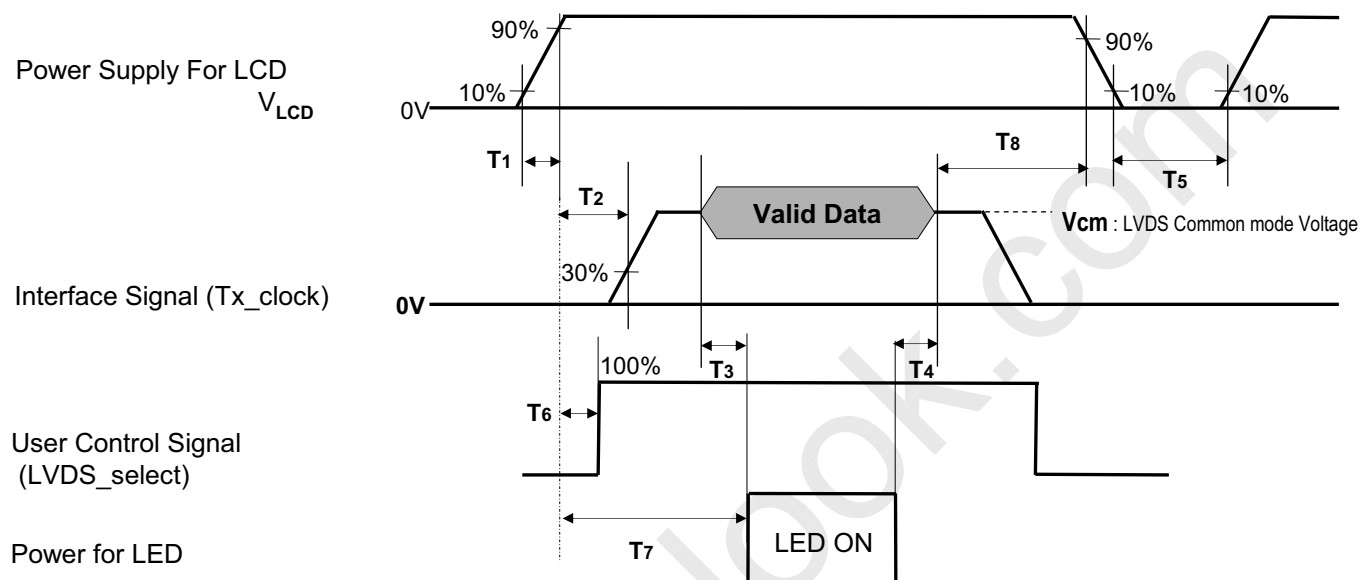


Table 8. POWER SEQUENCE

Parameter	Value			Unit	Notes
	Min	Typ	Max		
T1	0.5	-	20	ms	1
T2	0	-	-	ms	2
T3	200	-	-	ms	3
T4	200	-	-	ms	3
T5	1.0	-	-	s	4
T6	-	-	T2	ms	5
T7	0.5	-	-	s	6
T8	100	-	-	ms	7

- Note :
1. Even though T1 is over the specified value, there is no problem if I2T spec of fuse is satisfied.
 2. If T2 is satisfied with specification after removing LVDS Cable, there is no problem.
 3. The T3 / T4 is recommended value, the case when failed to meet a minimum specification, abnormal display would be shown. There is no reliability problem.
 4. T5 should be measured after the Module has been fully discharged between power off and on period.
 5. If the on time of signals (Interface signal and user control signals) precedes the on time of Power (V_{LCD}), it will be happened abnormal display. When T6 is NC status, T6 doesn't need to be measured.
 6. If there is no abnormal display, no problem.
 7. It is recommendation specification that T8 has to be 100ms as a minimum value.
- ※ Please avoid floating state of interface signal at invalid period.
 ※ When the power supply for LCD (VLCD) is off, be sure to pull down the valid and invalid data to 0V.

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4. Optical Specification

Optical characteristics are determined after the unit has been 'ON' and stable in a dark environment at $25\pm 2^{\circ}\text{C}$. The values are specified at distance 50cm from the LCD surface at a viewing angle of Φ and θ equal to 0° . FIG. 1 shows additional information concerning the measurement equipment and method.

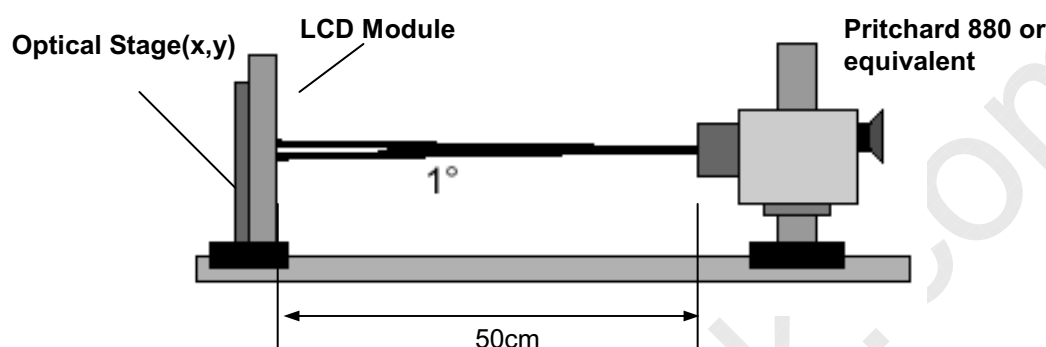


FIG. 1 Optical Characteristic Measurement Equipment and Method

Table 10. OPTICAL CHARACTERISTICS

$T_a = 25\pm 2^{\circ}\text{C}$, $V_{\text{LCD}} = 12.0\text{V}$, $f_v = 60\text{Hz}$, $D_{\text{clk}} = 72.4\text{MHz}$,
EXTVBR_B=100%, Back Light : LC260EXN-SDA1

Parameter		Symbol	Value			Unit	Note
			Min	Typ	Max		
Contrast Ratio		CR	700	1000	-		1
Response Time	Rising	Tr	-	6	9	ms	3
	Falling	Tf	-	9	13		
Color Coordinates [CIE1931]	RED	Rx	Typ -0.03	0.635	Typ +0.03		
		Ry		0.340			
	GREEN	Gx		0.320			
		Gy		0.606			
	BLUE	Bx		0.154			
		By		0.052			
Viewing Angle (CR>10)							
	x axis, right($\phi=0^{\circ}$)	θ_r	89	-	-	degree	6
	x axis, left ($\phi=180^{\circ}$)	θ_l	89	-	-		
	y axis, up ($\phi=90^{\circ}$)	θ_u	89	-	-		
	y axis, down ($\phi=270^{\circ}$)	θ_d	89	-	-		
Gray Scale			-	-	-		7

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Notes : 1. Contrast Ratio (CR) is defined mathematically as :

$$CR = \frac{\text{Surface Luminance at all white pixels}}{\text{Surface Luminance at all black pixels}}$$

It is measured at center 1-point.

2. Surface luminance is determined after the unit has been 'ON' and 1Hour after lighting the backlight in a dark environment at $25 \pm 2^\circ\text{C}$. Surface luminance is the luminance value at center 1-point across the LCD surface 50cm from the surface with all pixels displaying white. For more information see the FIG. 2.

3. The variation in surface luminance, δ WHITE is defined as :

$$\delta \text{ WHITE}(5P) = \text{Maximum}(L_{on1}, L_{on2}, L_{on3}, L_{on4}, L_{on5}) / \text{Minimum}(L_{on1}, L_{on2}, L_{on3}, L_{on4}, L_{on5})$$

Where L_{on1} to L_{on5} are the luminance with all pixels displaying white at 5 locations .

For more information, see the FIG. 2.

4. Response time is the time required for the display to transit from any gray to white (Rise Time, Tr_R) and from any gray to black (Decay time, Tr_D). For additional information see the FIG. 3.

※ G to G_{BW} Spec stands for average value of all measured points.

Photo Detector : RD-80S / Field : 2°

5. G to G_σ is Variation of Gray to Gray response time composing a picture

$$G \text{ to } G(\sigma) = \sqrt{\frac{\sum (X_i - u)^2}{N}}$$

X_i : Individual Data
 u : Data average
 N : The number of Data

6. 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 module surface. For more information, see the FIG. 4.

7. Gray scale specification

Gamma Value is approximately 2.2. For more information, see the Table 11.

Table 11. GRAY SCALE SPECIFICATION

Gray Level	Luminance [%] (Typ.)
L0	0.10
L15	0.27
L31	1.04
L47	2.49
L63	4.68
L79	7.66
L95	11.5
L111	16.1
L127	21.6
L143	28.1
L159	35.4
L175	43.7
L191	53.0
L207	63.2
L223	74.5
L239	86.7
L255	100

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Measuring point for surface luminance & measuring point for luminance variation.

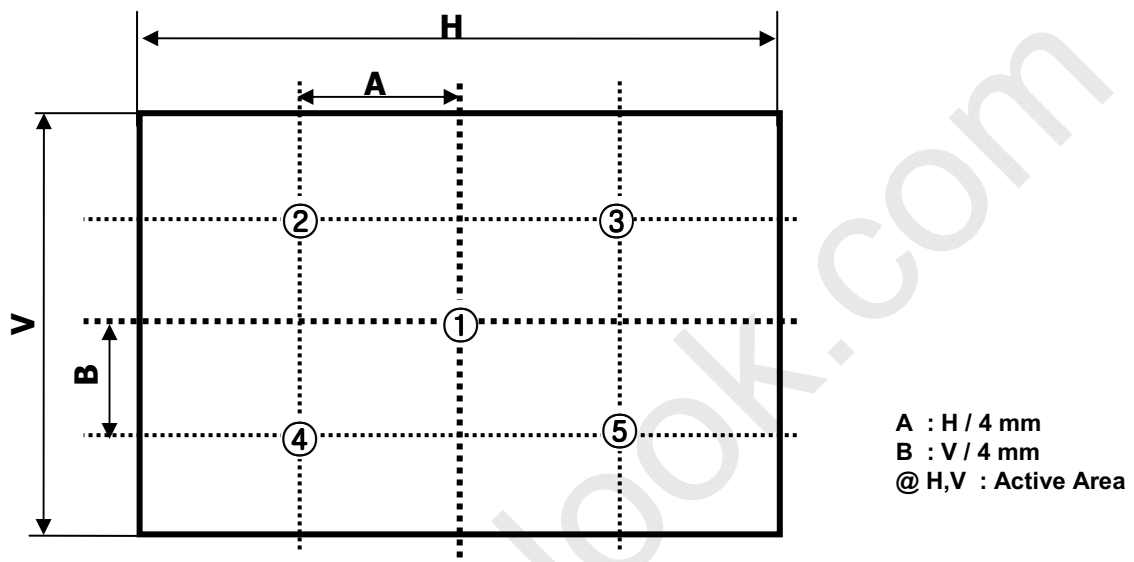


FIG. 2 5 Points for Luminance Measure

Response time is defined as the following figure and shall be measured by switching the input signal for "Gray(N)" and "Black or White".

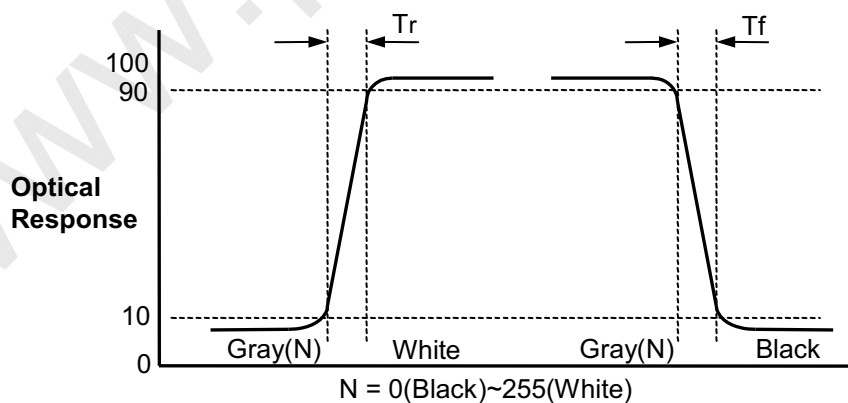


FIG. 3 Response Time

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Dimension of viewing angle range

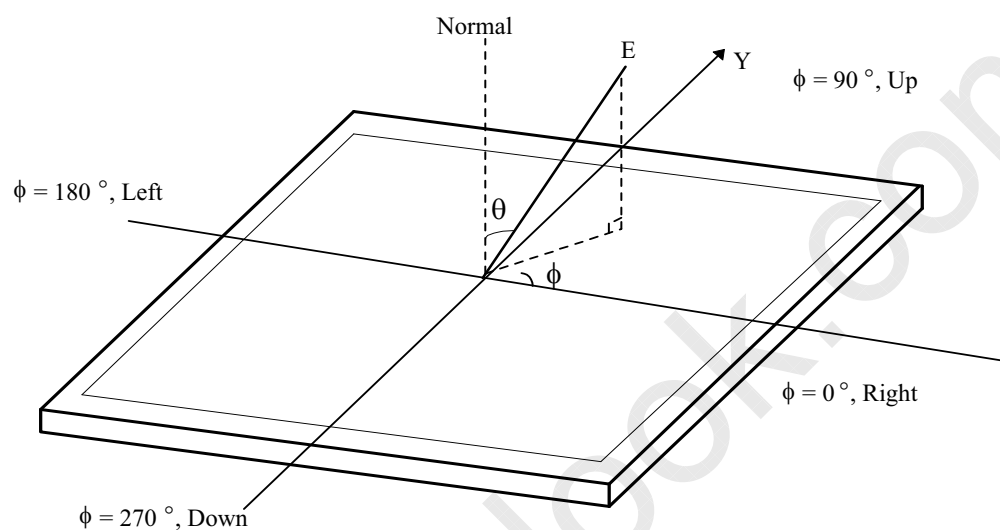


FIG. 4 Viewing Angle



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5. Mechanical Characteristics

Table 12 provides general mechanical characteristics.

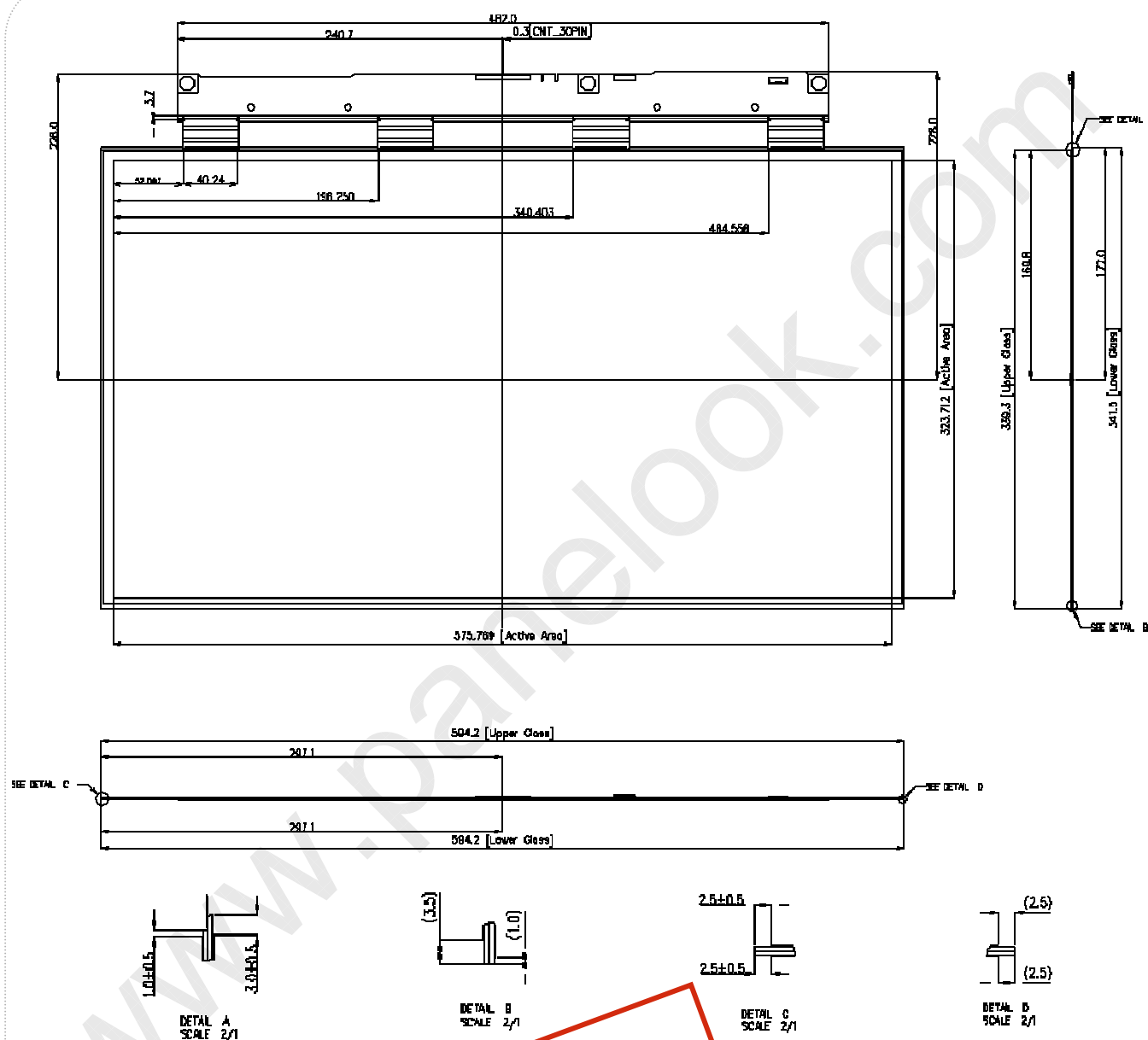
Table 12. MECHANICAL CHARACTERISTICS

Item	Value	
Outline Dimension (Only Glass)	Horizontal	594.2 mm
	Vertical	341.5 mm
	Thickness	1.8 mm
Active Display Area	Horizontal	575.769mm
	Vertical	323.712mm
Weight	820g(Typ.) , 900g(Max)	

Note : 1.Please refer to a mechanical drawing in terms of tolerance at the next page.

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[FRONT VIEW]



TBD



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6. Reliability

Table 13. ENVIRONMENT TEST CONDITION

No.	Test Item	Condition
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	Humidity condition Operation	Ta= 40 °C ,90%RH
6	Altitude operating storage / shipment	0 - 15,000 ft 0 - 40,000 ft

Note : Before and after Reliability test, LCM should be operated with normal function.



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7. International Standards**7-1. 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. Packing Form**

- a) Package quantity in one Pallet : 120 pcs
- b) Pallet Size :1140 mm(L) X 740 mm(W) X 840 mm(H)



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9. Precautions

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

9-1. Assembly Precautions

- (1) 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 resist external force.
- (2) You should adopt radiation structure to satisfy the temperature specification.
- (3) 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.
- (4) 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.)
- (5) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaked 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.
- (6) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (7) Board ass'y should be put on the mold frame properly.
- (8) FFC Cable should be connected between System board and Source PCB correctly.
- (9) Mechanical structure for backlight system should be designed for sustaining board ass'y safely.

9-2. Operating Precautions

- (1) Response time depends on the temperature. (In lower temperature, it becomes longer.)
- (2) 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.
- (3) 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.
- (4) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (5) 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 minimize the interference.
- (6) Please do not give any mechanical and/or electrical impact to board ass'y. Otherwise, it can't be operated its full characteristics perfectly.



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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. Panel ground path should be connected to metal ground.

9-4. Precautions for Strong Light Exposure

Strong light exposure causes degradation of polarizer and color filter.

9-5. Storage

When storing the board ass'y as spares for a long time, the following precautions are necessary.

- (1) Store them in a dark place. Do not expose the board ass'y 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.

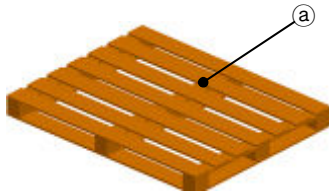
LC260EXJ

Product Specification

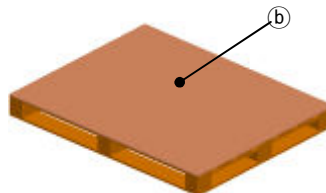
APPENDIX-I

■ Pallet Ass'y

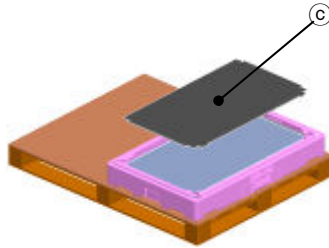
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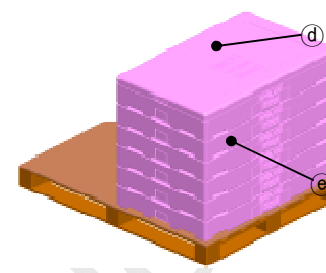
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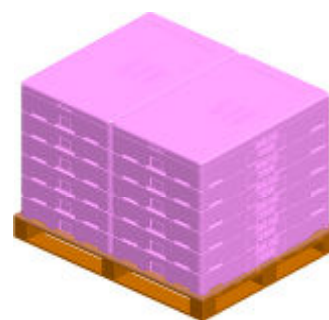
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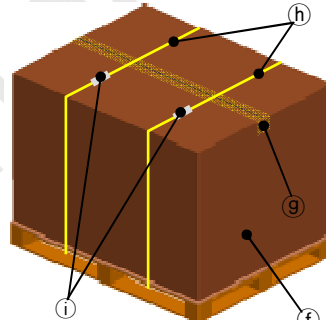
④



⑤



⑥



No.	Description	Material
(a)	Pallet	Plywood
(b)	Carton Plate	Single Wall
(c)	PE Sheet	Carbon
(d)	Top Packing	EPP
(e)	Bottom Packing	EPP
(f)	Angle Packing	Single Wall
(g)	Tape	OPP
(h)	Band	PP
(i)	Clip	Steel

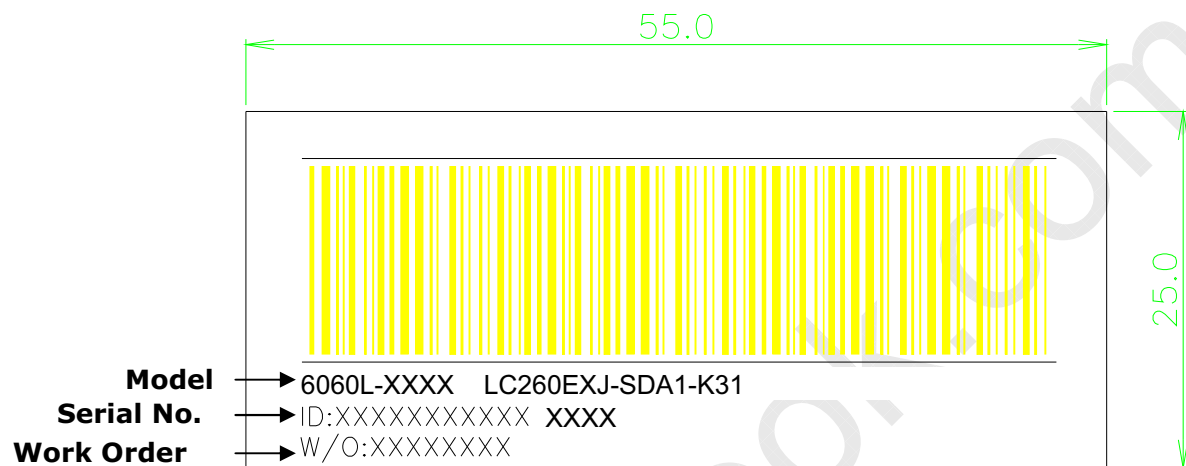
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APPENDIX- II-1

■ Board Ass'y ID Label

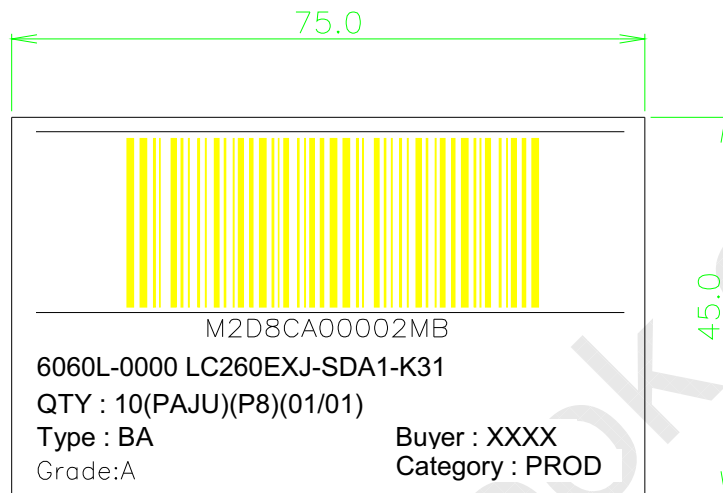




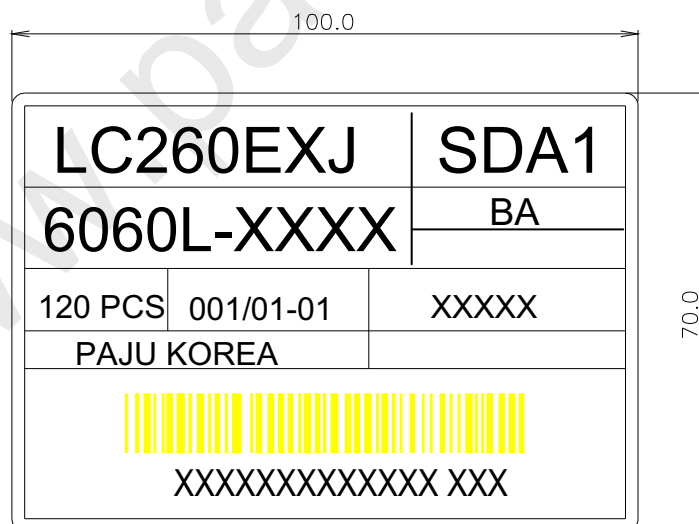
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APPENDIX- II-2

■ BOX Label



■ Pallet Label

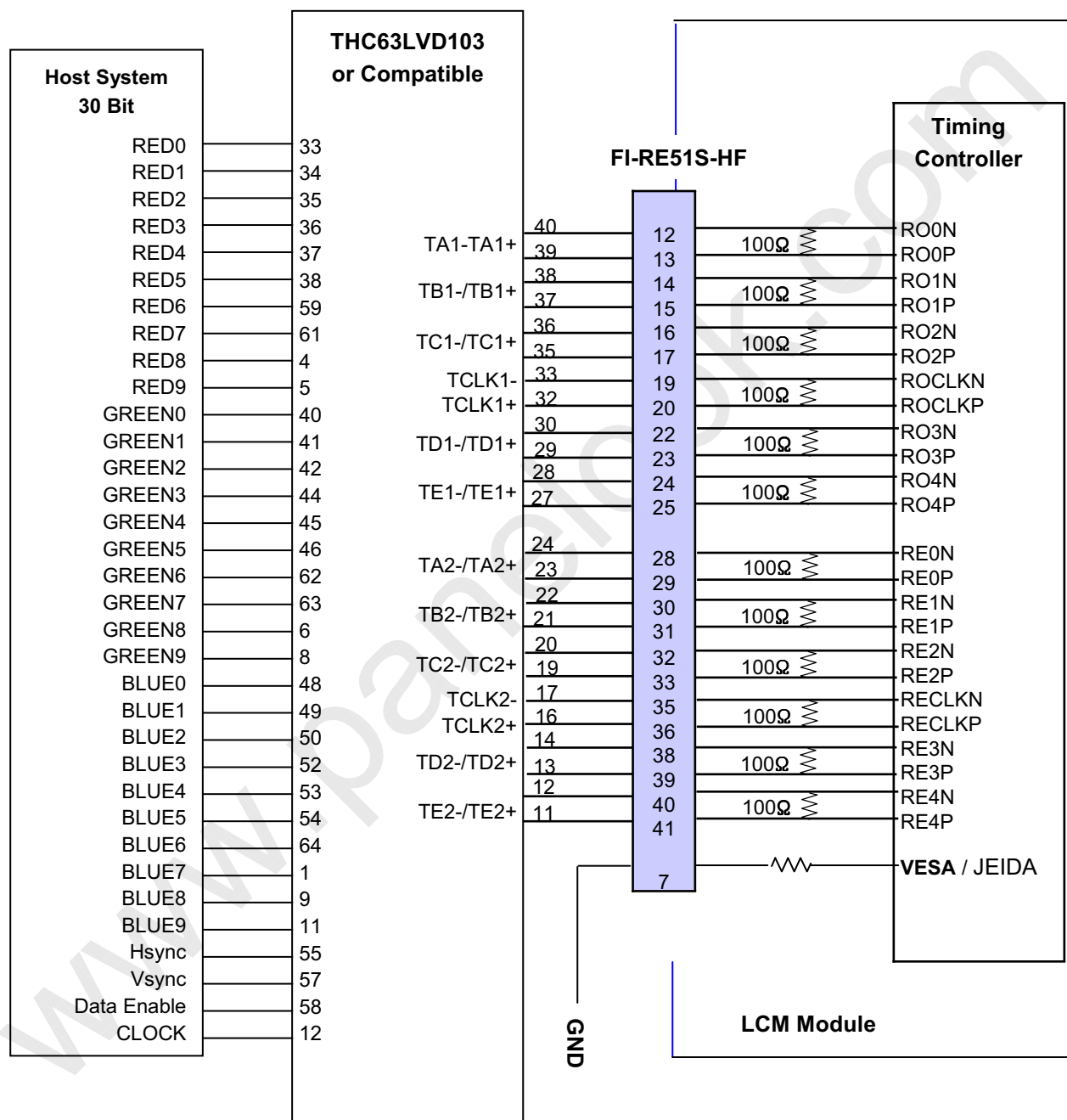


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APPENDIX-III -1

■ Required signal assignment for Flat Link (Thine : THC63LVD103) Transmitter(Pin7="L or NC")



Note: 1. The LCD module uses a 100 Ohm[Ω] resistor between positive and negative lines of each receiver input.

2. Refer to LVDS Transmitter Data Sheet for detail descriptions. (THC63LVD103 or Compatible)

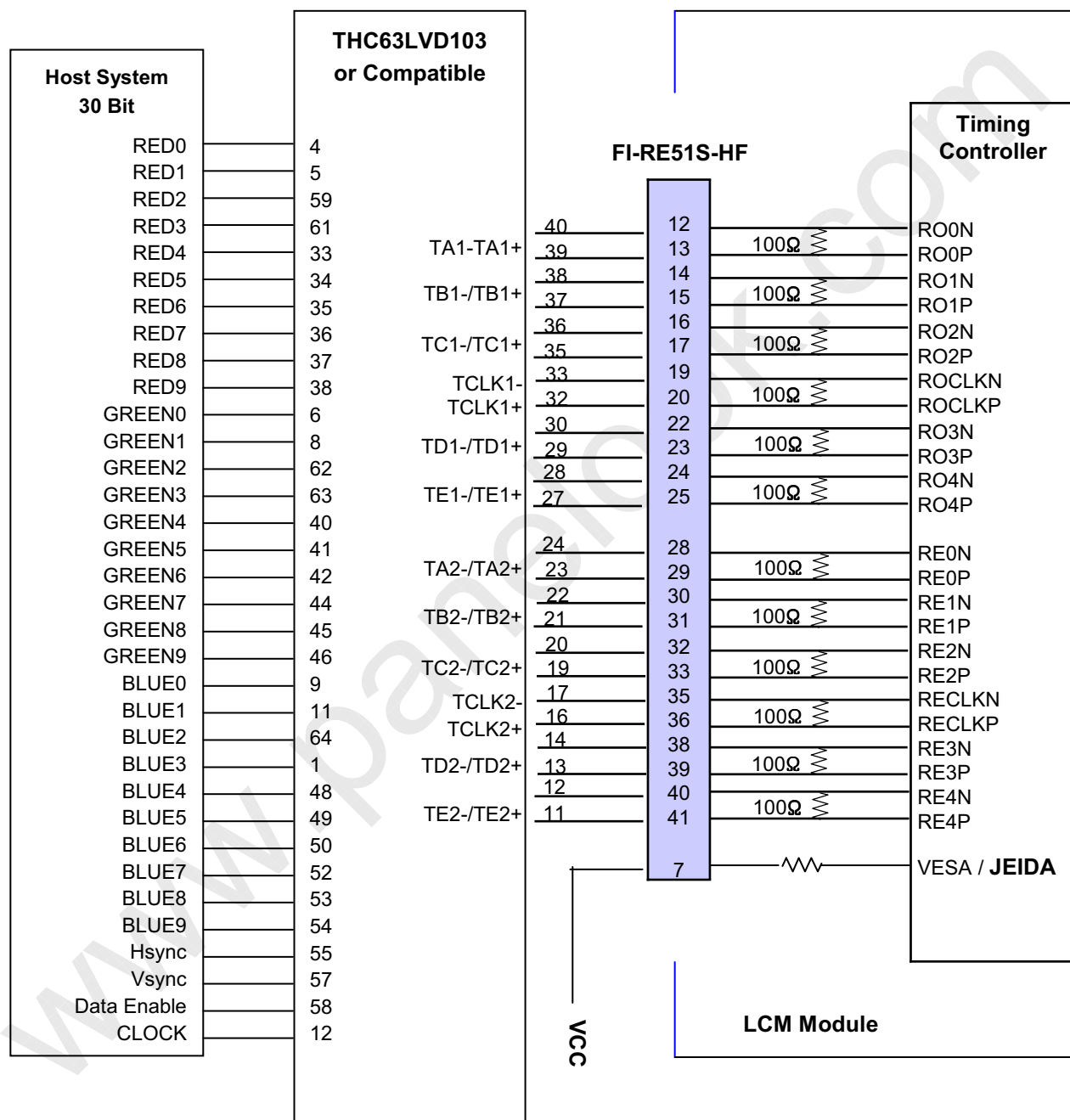
3. '9' means MSB and '0' means LSB at R,G,B pixel data.

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APPENDIX-III-2

■ Required signal assignment for Flat Link (Thine : THC63LVD103) Transmitter(Pin7="H")



Note :1. The LCD module uses a 100 Ohm[Ω] resistor between positive and negative lines of each receiver input.

2. Refer to LVDS Transmitter Data Sheet for detail descriptions. (THC63LVD103 or Compatible)

3. '9' means MSB and '0' means LSB at R,G,B pixel data.

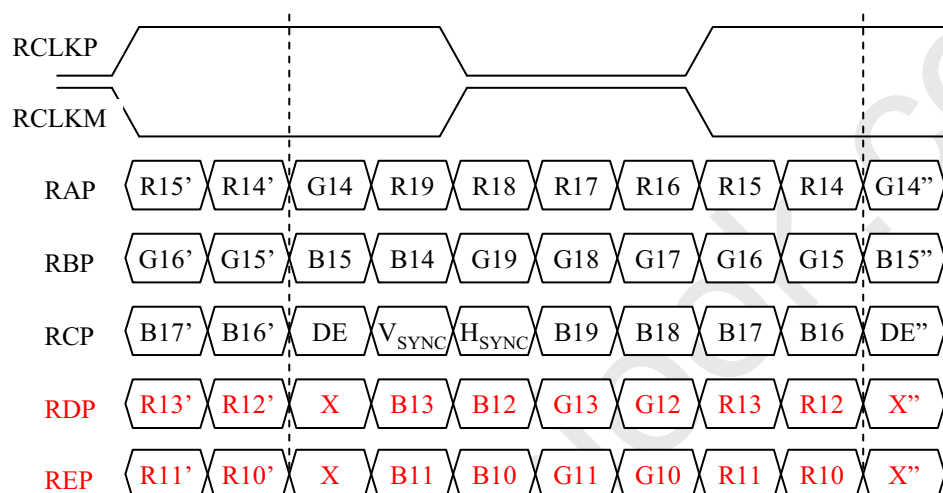
LC260EXJ

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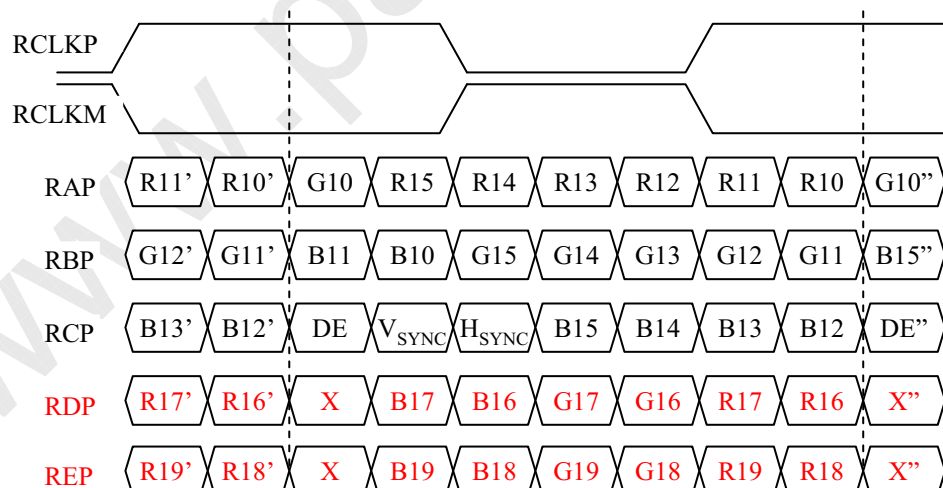
APPENDIX- IV-1

LVDS Data-Mapping info. (10bit)

■ LVDS Select : “H” Data-Mapping (JEIDA format)



■ LVDS Select : “L” Data-Mapping (VESA format)



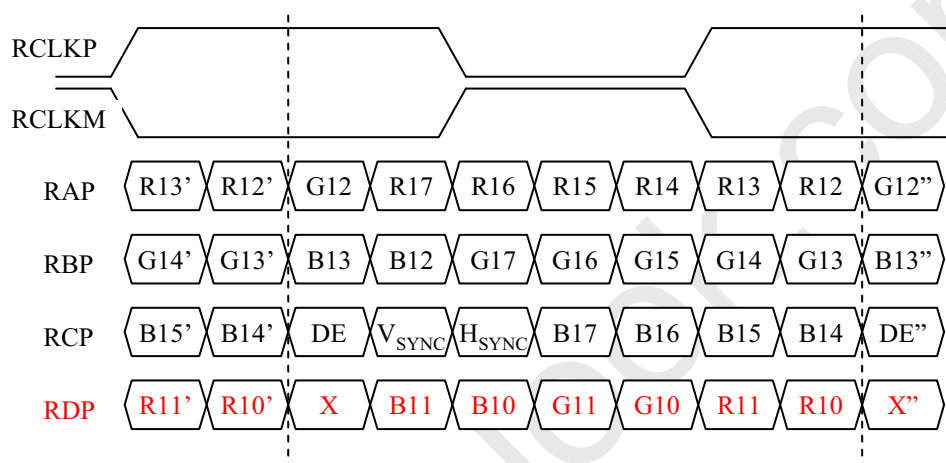
LC260EXJ

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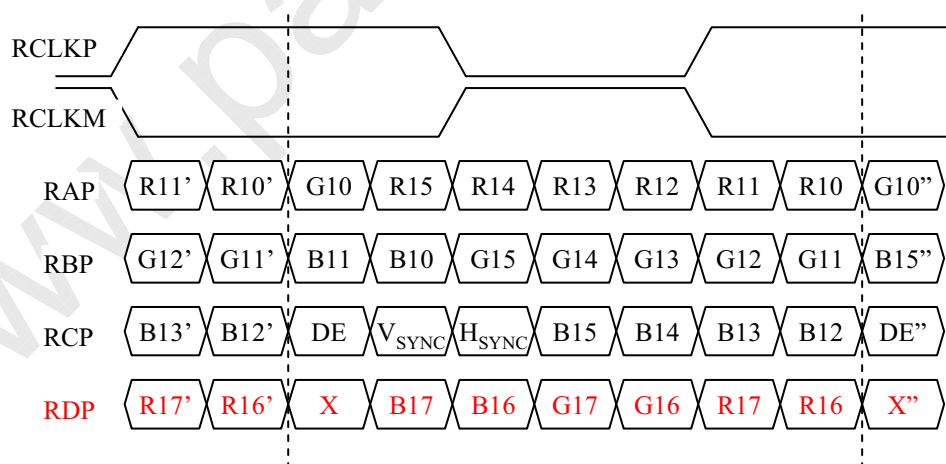
APPENDIX- IV-2

LVDS Data-Mapping info. (8bit)

■ LVDS Select : “H” Data-Mapping (JEIDA format)



■ LVDS Select : “L” Data-Mapping (VESA format)

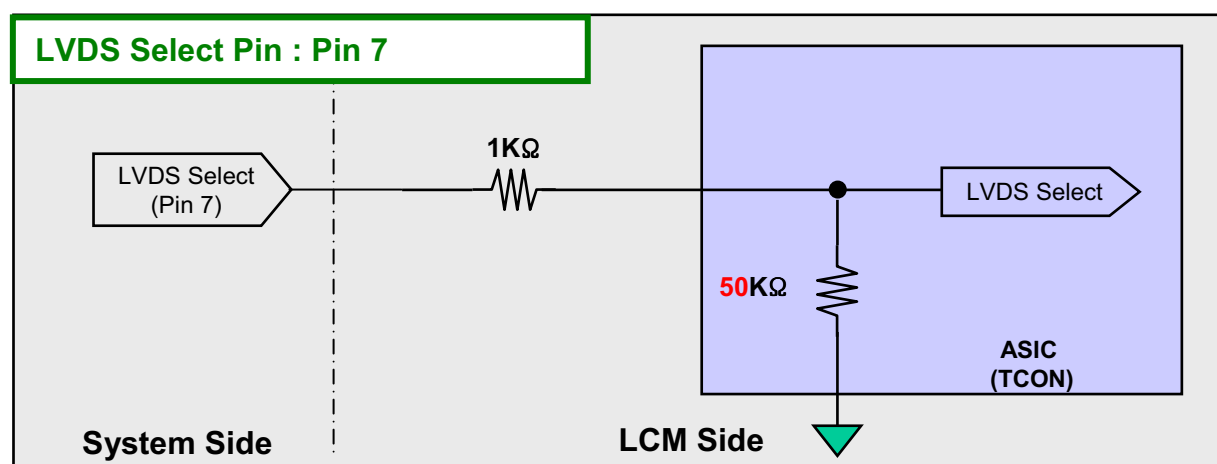
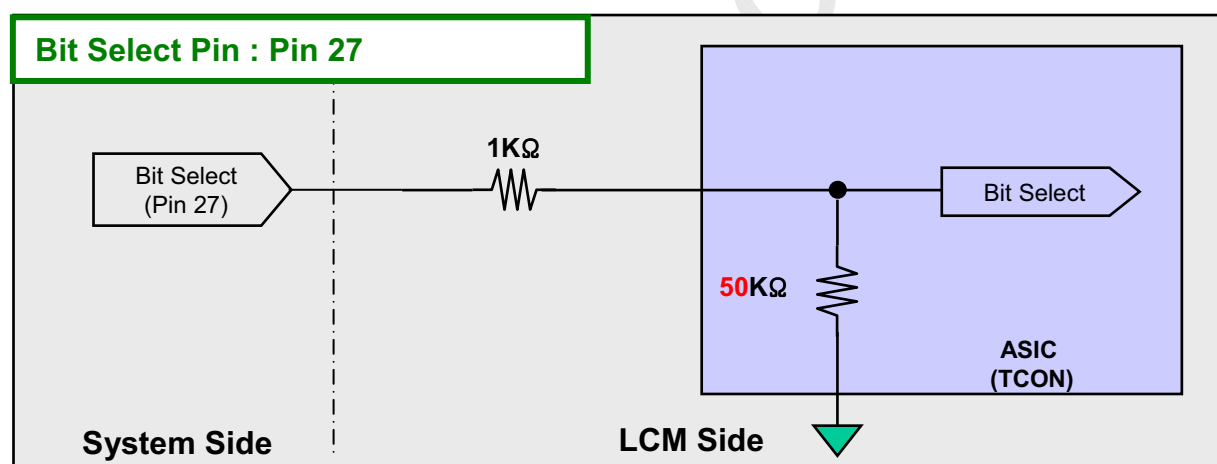
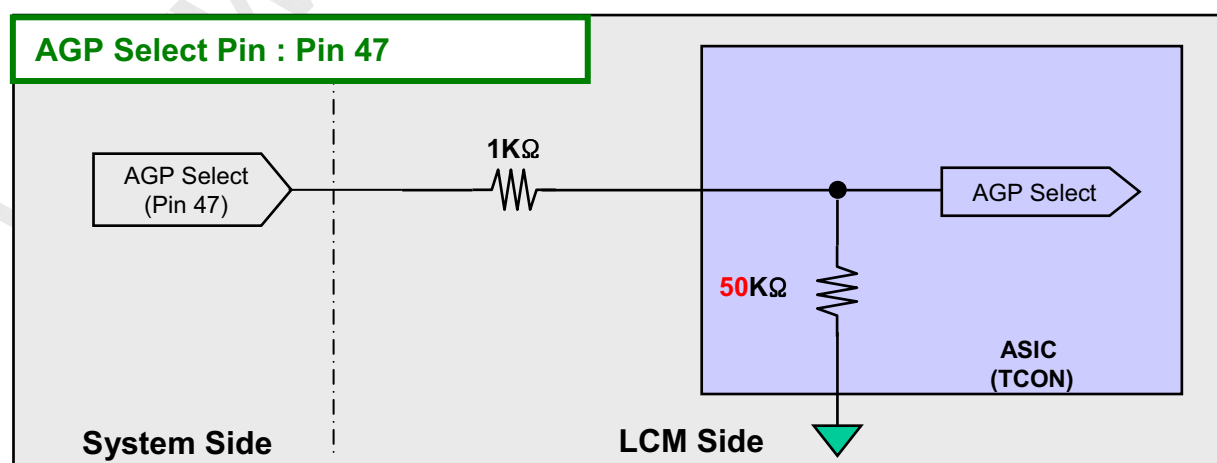


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APPENDIX- V

■ Option Pin Circuit Block Diagram

1) Circuit Block Diagram of **LVDS Format** Selection pin2) Circuit Block Diagram of **Bit Format** Selection pin3) Circuit Block Diagram of **AGP Option** Selection pin



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APPENDIX- VI

■ Vcom setting Range

	Min	Typ	Max
VCOM setting Range	01 85 step	01 AF step	02 15 step