



深圳市广宁伟业液晶显示有限公司

**8.0 " GN080WX1-206
(650cd/m²) Product Specification
GN080WX1-206 产品承认书**

REVISION HISTORY

[illegible]

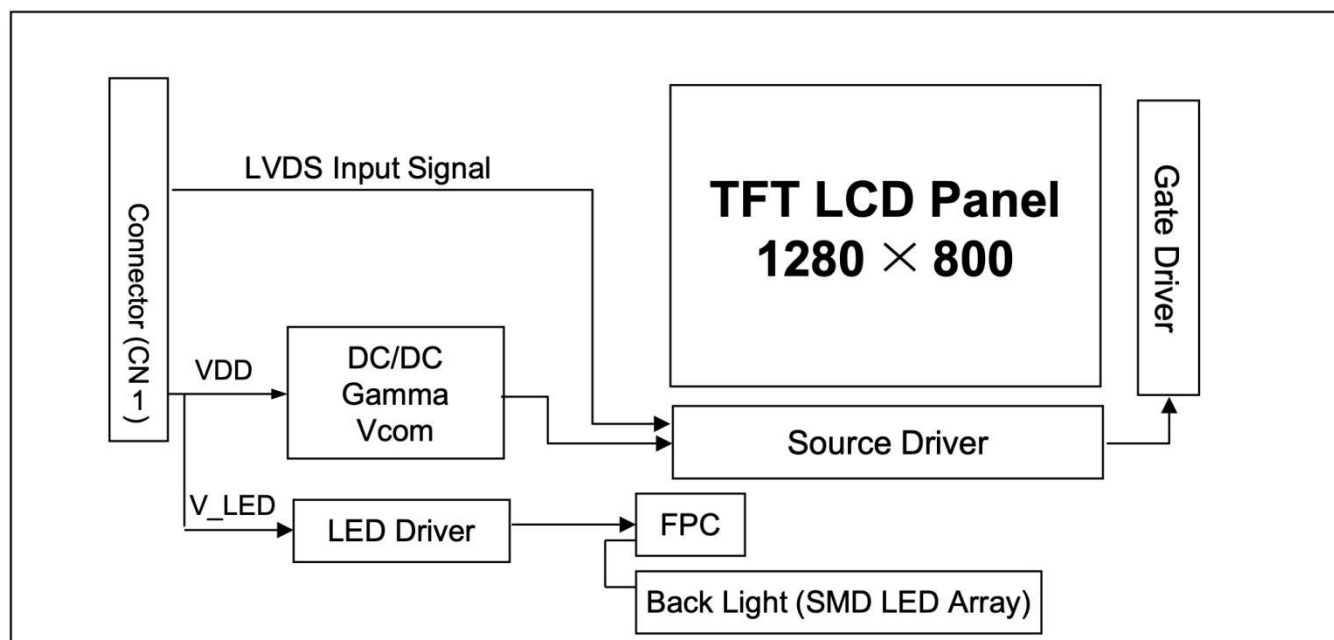
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1.0 GENERAL DESCRIPTION

1.1 Introduction

GN080WX1-206 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 10.07 inch diagonally measured active area with WXGA resolutions (1280 horizontal by 800 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7M colors. The TFT-LCD panel used for this module is adapted for a low reflection and higher color type.



1.2 Features

- 1 Channel LVDS Interface with 1 pixel / clock
- Thin and light weight
- Display 16.7M colors (Hi FRC)
- High luminance and contrast ratio, low reflection and wide viewing angle
- DE (Data Enable) signal mode
- 3.3V for Logic Power and 3.7V for LED Back Light Power RoHS Compliant

1.3 Application

- Tablet & Application Mini-PC (Wide Type)

1.4 General Specification

Parameter	Specification	Unit	Remarks
Active area	172.222(H) ×107.64(V)	mm	
Number of pixels	1280(H) ×800(V)	pixels	
Pixel pitch	0.13455 (H) X0.13455 (V)	μm	
Pixel arrangement	Pixels RGB stripe arrangement		
Display colors	16.7M(8bits + Hi-FRC)	colors	
Display mode	Transmission mode. Normally Black		
Outline Dimension	181.25 ×118.75×2.5 Typ.	mm	
Weight	105 (max)	gram	
Surface Treatment	Hard Coating, 3H, Low Reflection (Front Polarizer)		
Back-light	Bottom edge side, 1-LED Lighting Bar Type		36* LED Array

2.0 ABSOLUTE MAXIMUM RATINGS

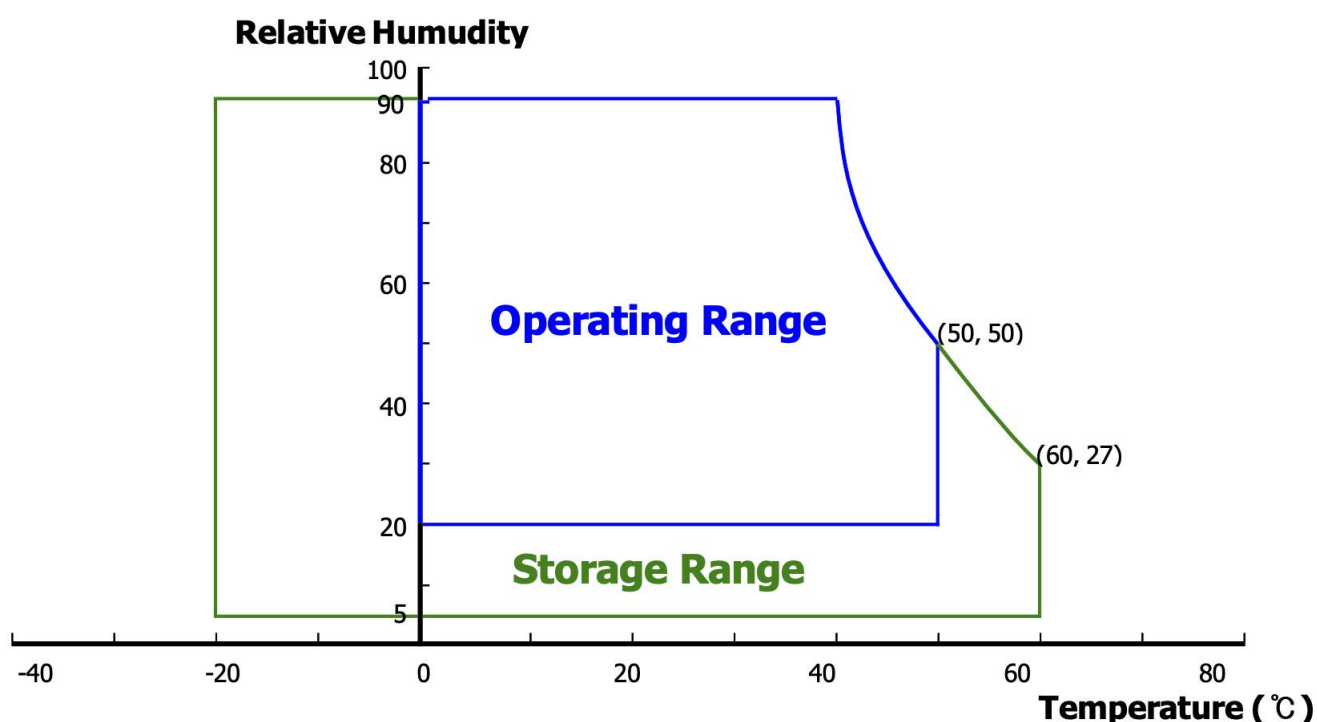
The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

< Table 2. LCD Module Electrical Specifications >

[Ta =25±2 °C]

Parameter	Symbol	Min.	Max.	Unit	Remarks
Power Supply Voltage (LCD Module)	V_{DD}	-0.3	4.2	V	
Back-light Power Supply Voltage	HV_{DDOUT}	-0.3	18	V	
Back-light LED Current	I_{HVDD}	-	96	mA	
Back-light LED Reverse Voltage	V_R	-	2	V	
Operating Temperature	T_{OP}	0	+50	°C	1)
Storage Temperature	T_{ST}	-20	+60	°C	

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.



3.0 ELECTRICAL SPECIFICATIONS

3.1 TFT LCD Module

< Table 3. LCD Module Electrical Specifications >

[Ta =25±2 °C]

Parameter	Symbol	Values			Unit	Notes
		Min	Typ.	Max		
Power Supply Input Voltage	V_{DD}	3.0	3.3	3.6	V	Note 1
Power Supply Current	I_{DD}	-	80	-	mA	
LED Driver Power Supply Voltage	H_{VDD}	3	-	23.1	V	Note 2
LED Driver Power Supply Current	I_{HVDD}	-	568	-	mA	
LED Driver Efficiency	η	-	85	-	%	
Positive-going Input Threshold Voltage	V_{IT+}	-	-	+100	mV	Vcom = 1.2V typ.
Negative-going Input Threshold Voltage	V_{IT-}	-100	-	-	mV	
Differential input common mode voltage	V_{com}	-	1.2	-	V	$V_{IH}=100mV$, $V_{IL}=-100mV$
Power Consumption	P_D	-	1.0		W	Have Driver
	P_{BL}	-	1.84		W	
	P_{Total}	-	3.4		W	

Notes :

1. The supply voltage is measured and specified at the interface connector of LCM. The current draw and power consumption specified is for 3.7V at 25 °C Max value at White Pattern
2. Calculated value for reference (VLED X ILED)
3. CTF of Power Supply Current: P_D / P_{BL}

3.2 Back-light Unit

< Table 4. LED Driving guideline specifications >

Ta=25+/-3°C

Parameter			Min.	Typ.	Max.	Unit	Remarks
LED Forward Voltage		V _F	-	2.8	3.0	V	-
LED Forward Current		I _F	-	20	21	mA	-
LED Power Consumption		P _{LED}	-	2	2.3	W	Note 1
LED Life-Time		N/A	15,000	-	-	Hour	IF = 20mA Note 2
Power supply voltage for Back light		V _{LED}	19.6	-	23.1	v	
Power supply Current for Back light		I _{LED}	-	80	-	mA	
EN Control Level	Backlight on	V _{ENH}	1.2	-	-	V	EN logic high voltage
	Backlight off	V _{ENL}	-	-	0.4	V	EN logic low voltage
PWM Control Level	PWM High Level	V _{PML}	1.2	-	-	V	
	PWM Low Level	V _{PML}	-	-	0.4	V	
PWM Control Frequency		F _{PWM}	5	-	20	KHz	
PWM duty Ratio			10%	-	-	%	

Notes :

1. Calculator Value for reference $I_{LED} \times V_{LED} = P_{LED}$
2. The LED Life-time define as the estimated time to 50% degradation of initial luminous.

4.0 OPTICAL SPECIFICATION

4.1 Overview

The test of Optical specifications shall be measured in a dark room (ambient luminance $\leq 1\text{lux}$ and temperature = $25 \pm 3^\circ\text{C}$) with the equipment of Luminance meter system (Goniometer system and TOPCON BM-7A) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of θ and Φ equal to 0° . While scanning θ and/or Φ , the center of the measuring spot on the Display surface shall stay fixed. The backlight should be operating for 30 minutes prior to measurement. VDD shall be $3.3 \pm 0.3\text{V}$ at 25°C . Optimum viewing angle direction is 6 'clock.

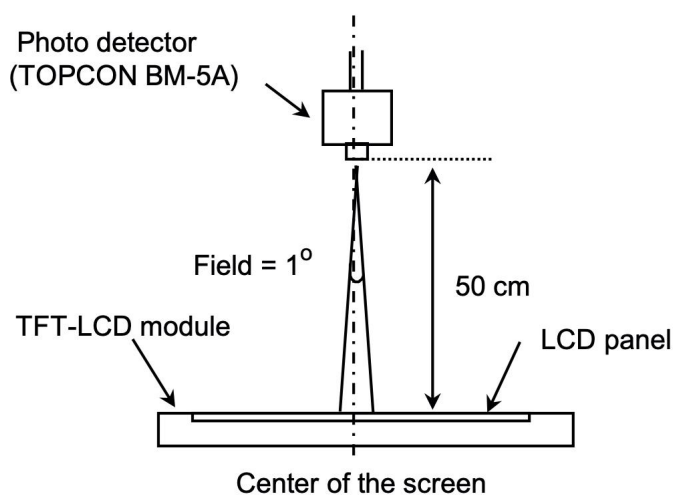
4.2 Optical Specifications

<Table 5. Optical Specifications>

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit	Remark
Viewing Angle range	Horizontal	Θ_3	CR > 10	-	85	-	Deg.	Note 1
		Θ_9		-	85	-	Deg.	
	Vertical	Θ_{12}		-	85	-	Deg.	
		Θ_6		-	85	-	Deg.	
Color Gamut				-	50	-	%	
Luminance Contrast ratio		CR	$\Theta = 0^\circ$	-	800	-		Note 2
Luminance of White	5 Points	Y_w	$\Theta = 0^\circ$	650	700	-	cd/m ²	Note 3
White Luminance uniformity	5 Points	$\Delta Y5$		-	80	-		Note 4
White Chromaticity		W_x	$\Theta = 0^\circ$	Typ. -0.03	0.313	Typ. +0.03		Note 5
		W_y			0.329			
Reproduction of color	Red	R_x	$\Theta = 0^\circ$	Typ. -0.03	0.600	Typ. +0.03		
		R_y			0.340			
	Green	G_x			0.315			
		G_y			0.565			
	Blue	B_x			0.150			
		B_y			0.125			
Response Time (Rising + Falling)		T_{RT}	Ta= 25° C $\Theta = 0^\circ$	-	25	-	ms	Note 6
Cross Talk		CT	$\Theta = 0^\circ$	-	-	2.0	%	Note 7

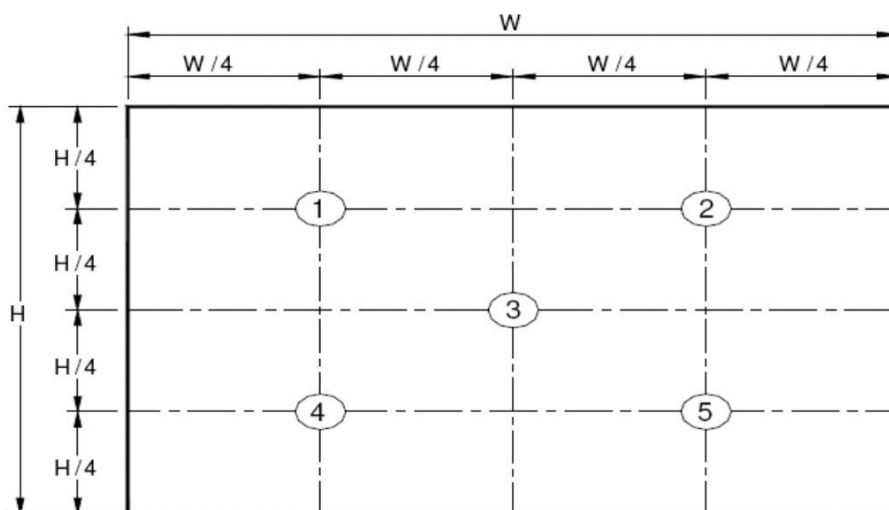
4.3 Optical measurements

Figure 1. Measurement Set Up



View angel range measurement setup

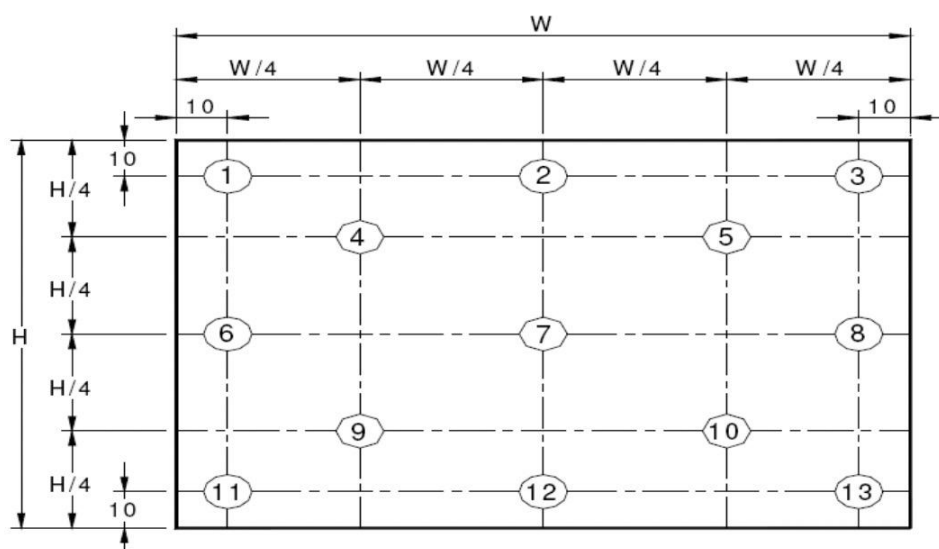
Figure 2. White Luminance and Uniformity Measurement Locations (5 points)



Center Luminance of white is defined as luminance values of center 5 points across the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in FIGURE 2 for a total of the measurements per display.

The White luminance uniformity on LCD surface is then expressed as : $\Delta Y5 = \text{Minimum Luminance of 5 points} / \text{Maximum Luminance of 5 points}$ (see FIGURE 2).

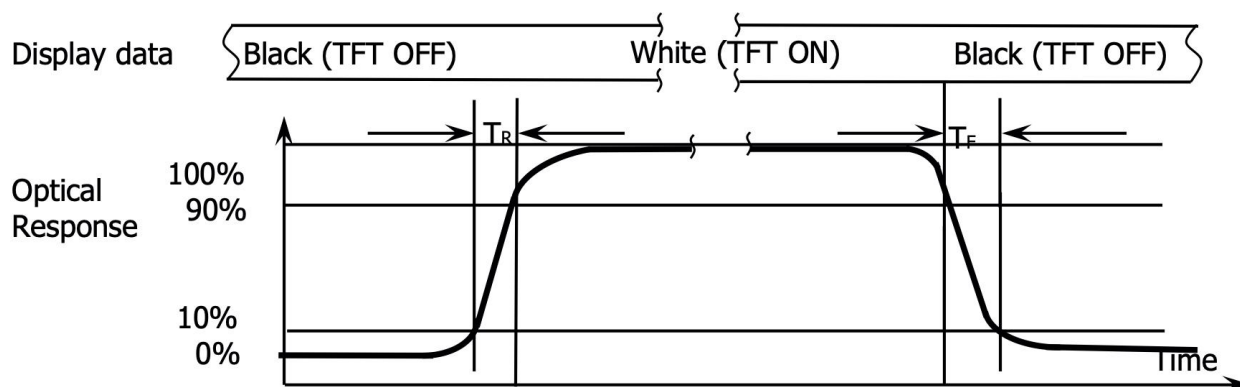
Figure 3. Uniformity Measurement Locations (13 points)



The White luminance uniformity on LCD surface is then expressed as : ΔY_{13} = Minimum Luminance of 13 points /Maximum Luminance of 13 points (see FIGURE 3).

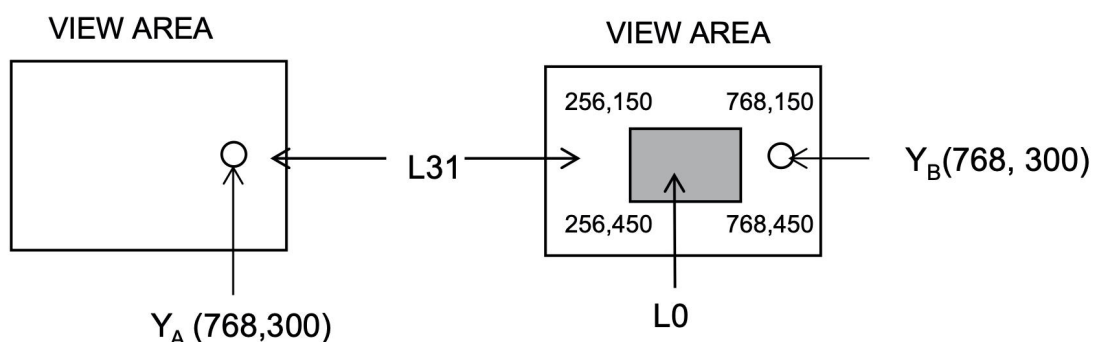
The White luminance uniformity of 5 point is the same test method as 13 point using FIGURE 2.

Figure 4. Response Time Testing



The electro-optical response time measurements shall be made as shown in FIGURE 4 by switching the “data” input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is T_r and 90% to 10% is T_d .

Figure 5. Cross Modulation Test Description



$$\text{Cross-Talk (\%)} = \left| \frac{Y_B - Y_A}{Y_A} \right| \times 100$$

Where:

Y_A = Initial luminance of measured area (cd/m^2)

Y_B = Subsequent luminance of measured area (cd/m^2)

The location measured will be exactly the same in both patterns.

Cross-Talk of one area of the LCD surface by another shall be measured by comparing the luminance (Y_A) of a 25mm diameter area, with all display pixels set to a gray level, to the luminance (Y_B) of that same area when any adjacent area is driven dark (Refer to FIGURE 5).

5.0 INTERFACE CONNECTION.

5.1 Electrical Interface Connection

The electronics interface connector is 20455-040E-12.

The connector interface pin assignments are listed in Table 6.

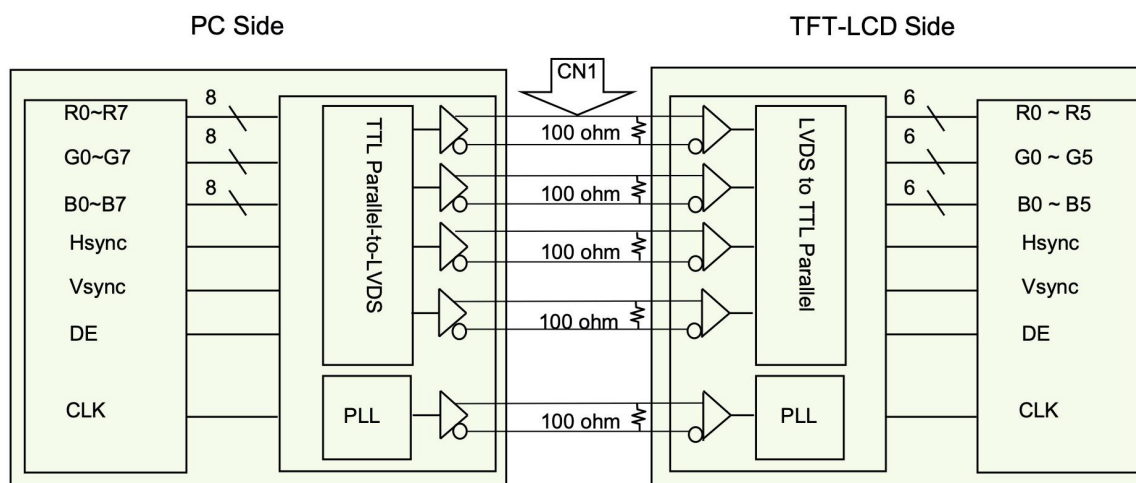
<Table 6. 1. Pin Assignments for the Interface Connector>

Terminal	Symbol	Functions
Pin No.	Symbol	Description
1	NC	Non Connection
2	VDDIN	Power supply VDDIN=3.3V (Typ.)
3	VDDIN	
4	VDC	Power supply VDC=3.3V (Typ.)
5	NC	Non Connection
6	CLK EDID	CLK for EDID function use
7	Data EDID	CLK for EDID function use
8	RIN0-	LVDS Negative data signal (-)
9	RIN0+	LVDS Positive data signal (+)
10	GND	GROUND
11	RIN1-	LVDS Negative data signal (-)
12	RIN1+	LVDS Positive data signal (+)
13	GND	GROUND
14	RIN2-	LVDS Negative data signal (-)
15	RIN2+	LVDS Positive data signal (+)
16	GND	GROUND
17	LVDS_CLK-	LVDS Negative CLK signal (-)
18	LVDS_CLK+	LVDS Positive CLK signal (+)
19	GND	GROUND
20	RIN3-	LVDS Negative data signal (-)

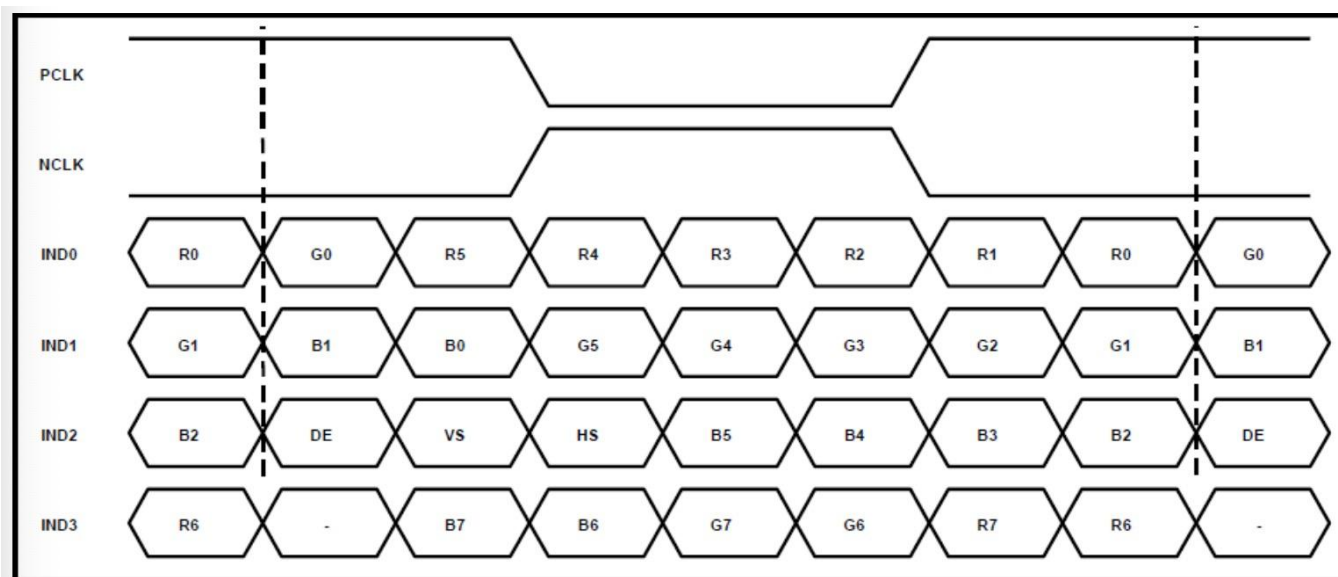
<Table 6.2. Pin Assignments for the Interface Connector>

Terminal	Symbol	Functions
Pin No.	Symbol	Description
21	RIN3+	LVDS Positive data signal (+)
22	CE_EN	Color engine enable
23	NC	Non Connection
24	NC	Non Connection
25	GND	GROUND
26	NC	Non Connection
27	NC	Non Connection
28	GND	GROUND
29	NC	Non Connection
30	NC	Non Connection
31	LED_GND	LED GROUND
32	LED_GND	
33	LED_GND	
34	NC	Non Connection
35	LED_PWM	LED driver PWM duty
36	LED_EN	LED driver enable
37	CABC_EN	CABC function enable
38	VLED	Power supply VLED=3~18V (Typ.)
39	VLED	
40	VLED	

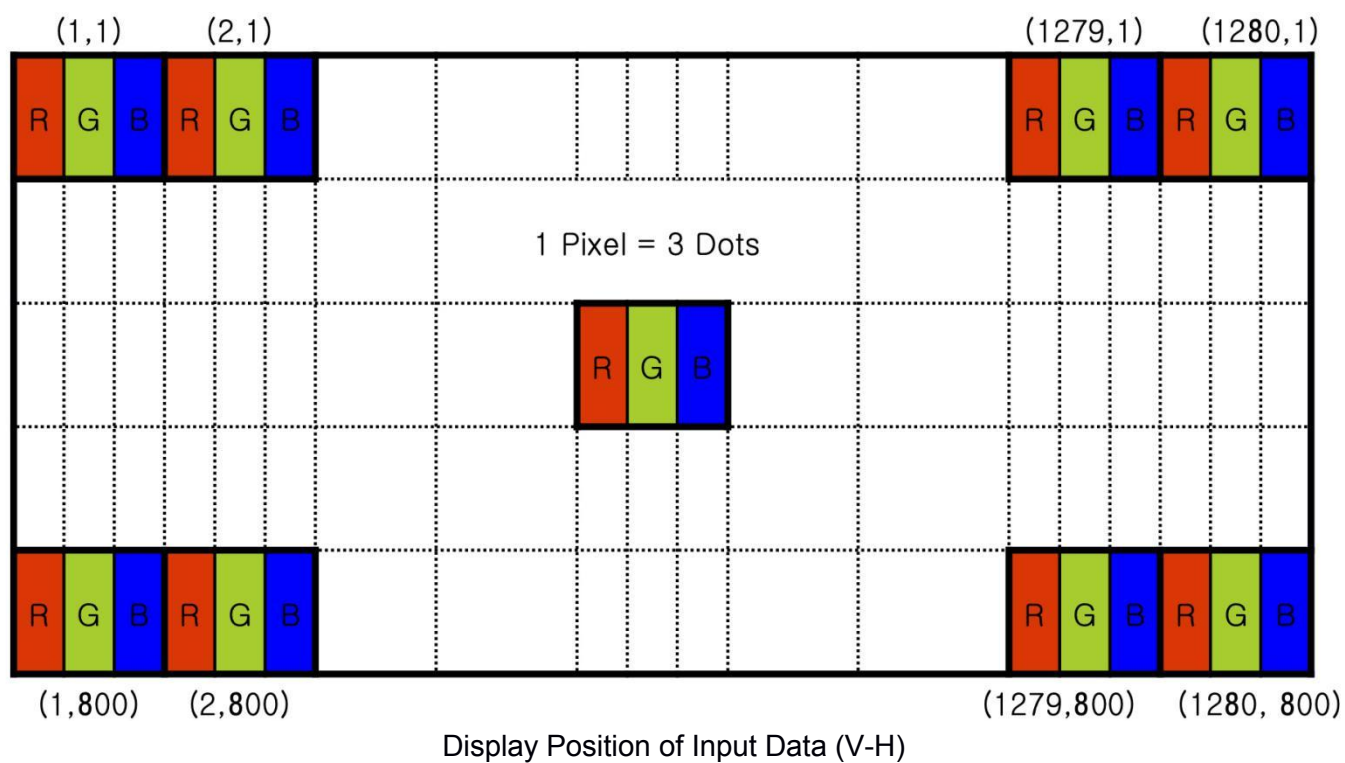
5.2 LVDS Interface



5.3 LVDS Input signal



5.4 Data Input Format



6.0 SIGNAL TIMING SPECIFICATION

6.1 The GN080WX1-206 is operated by the DE only.

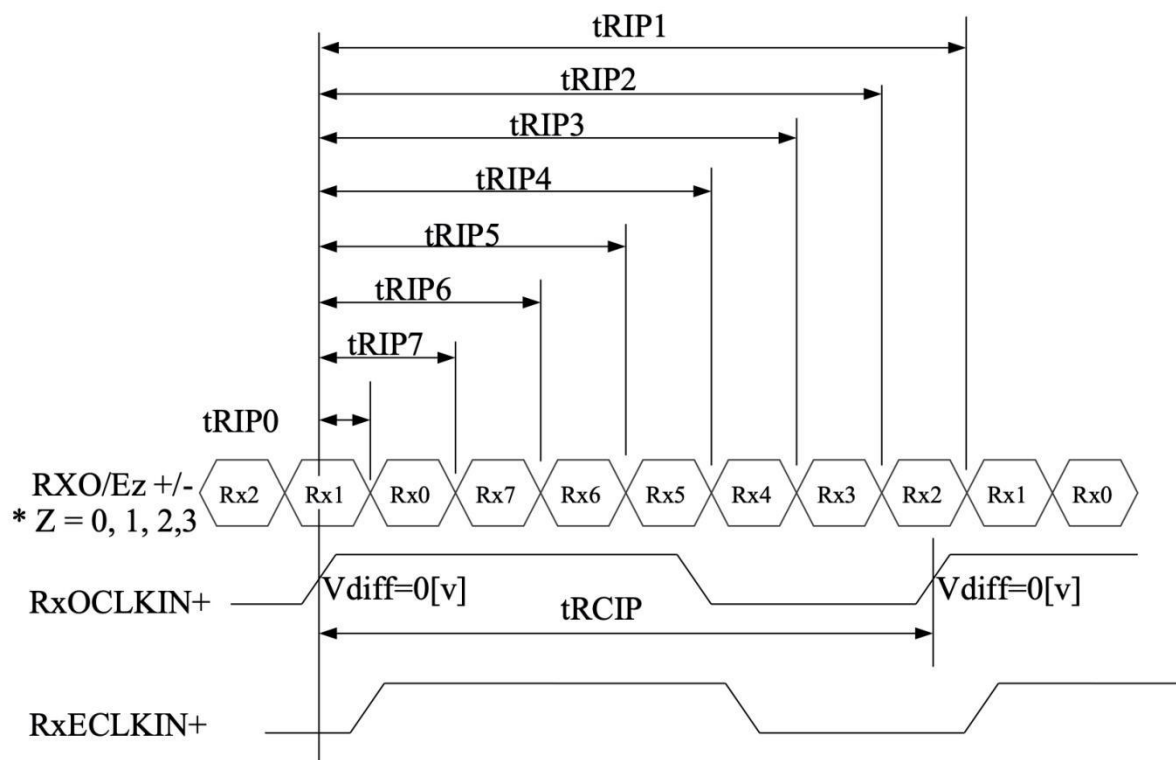
Parameter		Symbol	Min.	Typ.	Max.	Unit
Clock	Frequency	1/Tc	60	65	80	MHz
	Cycle	Tc	16.66	15.38	12.5	ns
Data Enable	Horizontal Period	THd	1280	1280	1280	Tc
	Horizontal Cycle	TH	1310	1330	1560	TC
		TH_time	19.5	20.46	21.83	ns
	Vertical Period	TVd	800	800	800	TC
	Vertical Cycle	TV		812		TC

6.2 LVDS Rx Interface Timing Parameter

The specification of the LVDS Rx interface timing parameter is shown in Table 8.

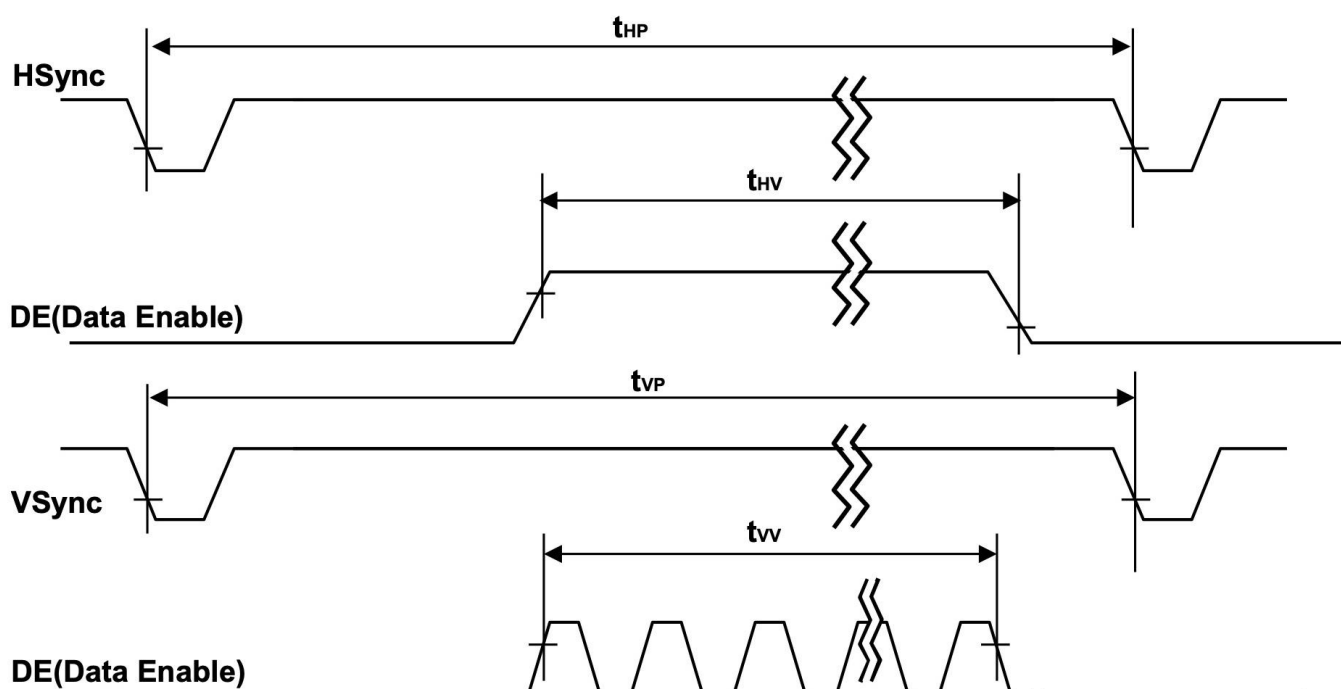
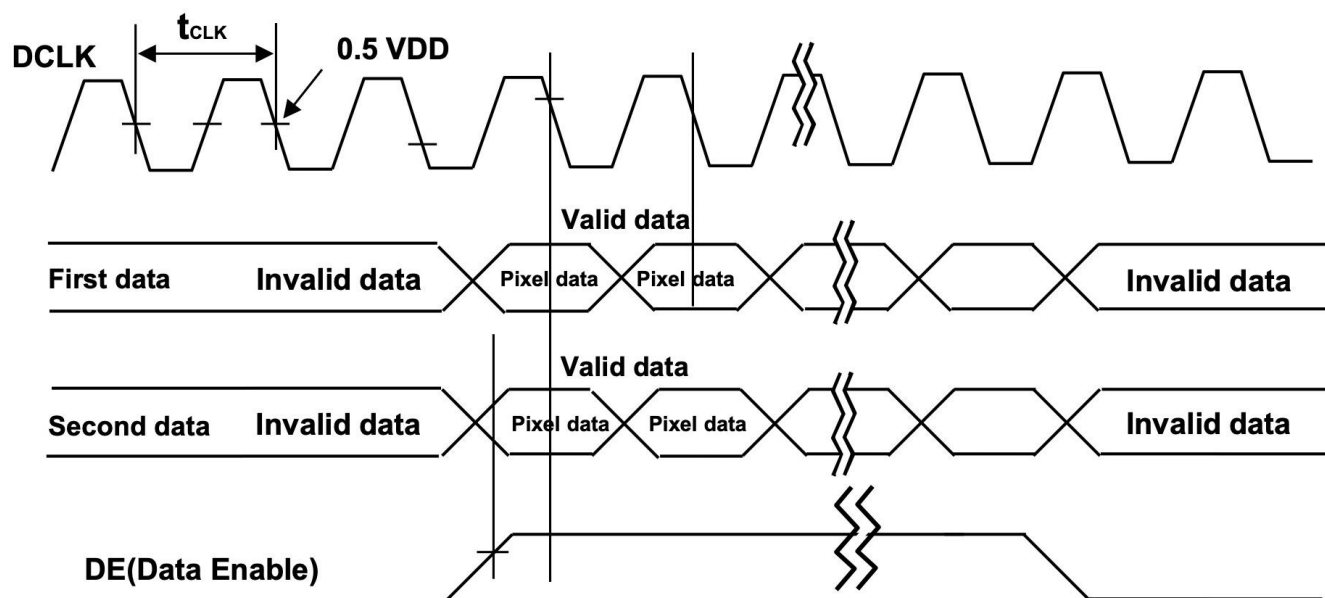
<Table 8. LVDS Rx Interface Timing Specification>

Item	Symbol	Min	Typ	Max	Unit	Remark
CLKIN Period	tRCIP	14.88	19.53	24.51	nsec	
Input Data 0	tRIP1	-0.4	0.0	+0.4	nsec	
Input Data 1	tRIP0	$tRIP/7-0.4$	$tRIP/7$	$tRIP/7+0.4$	nsec	
Input Data 2	tRIP7	$2 \times tRIP/7-0.4$	$2 \times tRIP/7$	$2 \times tRIP/7+0.4$	nsec	
Input Data 3	tRIP6	$3 \times tRIP/7-0.4$	$3 \times tRIP/7$	$3 \times tRIP/7+0.4$	nsec	
Input Data 4	tRIP5	$4 \times tRIP/7-0.4$	$4 \times tRIP/7$	$4 \times tRIP/7+0.4$	nsec	
Input Data 5	tRIP4	$5 \times tRIP/7-0.4$	$5 \times tRIP/7$	$5 \times tRIP/7+0.4$	nsec	
Input Data 6	tRIP3	$6 \times tRIP/7-0.4$	$6 \times tRIP/7$	$6 \times tRIP/7+0.4$	nsec	
Input Data 7	tRIP2	$7 \times tRIP/7-0.4$	$7 \times tRIP/7$	$7 \times tRIP/7+0.4$	nsec	



* $V_{diff} = (RXO/Ez+) - (RXO/Ez-), \dots, (RXO/ECLK+) - (RXO/ECLK-)$

7.0 SIGNAL TIMING WAVEFORMS OF INTERFACE SIGNAL

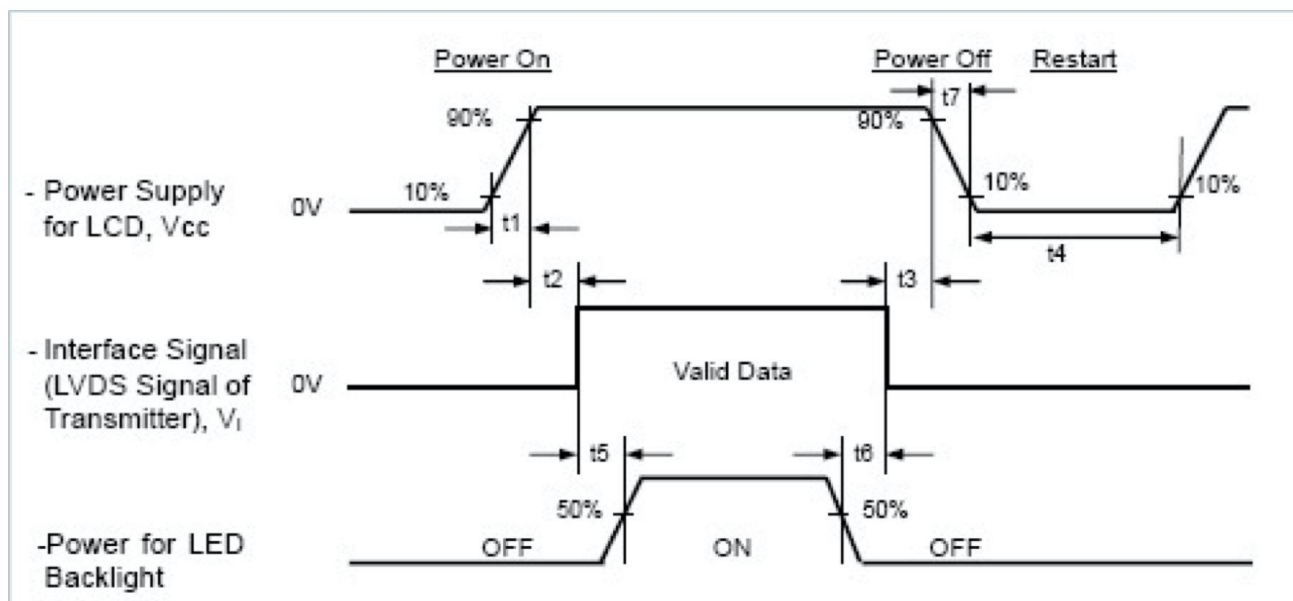


8.0 INPUT SIGNALS, BASIC DISPLAY COLORS & GRAY SCALE OF COLORS

Color & Gray Scale		Input Data Signal																								
		Red Data								Green Data								Blue Data								
		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 Colors	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	
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	
	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	
	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
Gray Scale of Red	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	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Darker	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	△	↑								↑								↑								
	▽	↓								↓								↓								
	Brighter	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	▽	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	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
Gray Scale of Green	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	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
	△	↑								↑								↑								
	▽	↓								↓								↓								
	Brighter	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0
	▽	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Gray Scale of Blue	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
	△	↑								↑								↑								
	▽	↓								↓								↓								
	Brighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	
	▽	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	
Gray Scale of White	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	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
	Darker	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	
	△	↑								↑								↑								
	▽	↓								↓								↓								
	Brighter	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	
	▽	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	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	

9.0 POWER SEQUENCE

To prevent a latch-up or DC operation of the LCD module, the power on/off sequence shall be as shown in below



Parameter	Values			Units
	Min	Typ	Max	
T1	0.5	-	10	ms
T2	0	-	50	ms
T3	0	-	30	ms
T4	200	-	-	ms
T5	200	-	-	ms
T6	200	-	-	ms

Notes:

1. When the power supply VDD is 0V, keep the level of input signals on the low or keep high impedance.
2. Do not keep the interface signal high impedance when power is on. Back Light must be turn on after power for logic and interface signal are valid.

10.0 Connector Description

Physical interface is described as for the connector on LCM.

These connectors are capable of accommodating the following signals and will be following components.

10.1 TFT LCD Module

Connector Name /Description	For Signal Connector
Manufacturer	IPEX or Compatible
Type/ Part Number	20455-040E-12 or Compatible

10.2 LED Connector(Jointing)

Pin No.	Symbol	For Signal Connector
1	VLEDP	LED Anode Power Supply
2	VLEDN	LED Cathode Power Supply

11.0 MECHANICAL CHARACTERISTICS

11.1 Dimensional Requirements

FIGURE 5 shows mechanical outlines for the model GN101WX1-206. Other parameters are shown in Table 9.

<Table 9. Dimensional Parameters>

Parameter	Specification	Unit
Active Area	177.222 (H) ×107.64 (V)	
Number of pixels	1280(H) X800 (V) (1 pixel = R + G + B dots)	
Pixel pitch	0.13455(H)× 0.13455(V)	
Pixel arrangement	RGB Vertical stripe	
Display colors	16.7M	
Display mode	Normally Black	
Dimensional outline	181.25*118.75*2.5(Typ.)	mm
Weight	105(Max)	gram
Back-light	LED, Horizontal-LED Array type	

11.2 Mounting

See FIGURE 6.

11.3 Glare and Polarizer Hardness.

The surface of the LCD has an low reflection coating and hard coating to reduce scratching.

11.4 Light Leakage

There shall not be obvious visible light from the back-lighting system around the edges of the screen as seen from a distance 50cm from the screen with an overhead light level of 150lux.

12.0 RELIABILITY TEST

The Reliability test items and its conditions are shown in below.

<Table 10. Reliability test>

No		Conditions
1	High temperature storage test	Ta = 60 °C , 240 hrs
2	Low temperature storage test	Ta = -20 °C , 240 hrs
3	High temperature & high humidity operation test	Ta = 50 °C , 90%RH, 240 hrs
4	High temperature operation test	Ta = 50 °C , 240 hrs
5	Low temperature operation test	Ta = 0 °C , 240 hrs
6	Thermal shock	Ta = -20 °C ↔ 60 °C (0.5 hr), 100 cycle
7	Power on/off	2s on/2s off 20000cycles
8	Vibration test (non-operating)	1.5G, 10~500Hz Sign X,Y,Z / Sweep rate : 0.5hour
9	Shock test (non-operating)	220G, Half Sine Wave 2msec ±X,±Y,±Z Once for each direction
10	Electro-static discharge test (non-operating)	Air : 150 pF, 330Ω, 15 KV Contact : 150 pF, 330Ω, 8 KV

13.0 HANDLING & CAUTIONS

(1) Cautions when taking out the module

Pick the pouch only, when taking out module from a shipping package.

(2) Cautions for handling the module

As the electrostatic discharges may break the LCD module, handle the LCD module with care. Peel a protection sheet off from the LCD panel surface as slowly as possible.

As the LCD panel and back - light element are made from fragile glass material, impulse and pressure to the LCD module should be avoided.

As the surface of the polarizer is very soft and easily scratched, use a soft dry cloth without chemicals for cleaning.

Do not pull the interface connector in or out while the LCD module is operating.

Put the module display side down on a flat horizontal plane.

Handle connectors and cables with care.

(3) Cautions for the operation

When the module is operating, do not lose CLK, ENAB signals. If any one of these signals is lost, the LCD panel would be damaged.

Obeys the supply voltage sequence. If wrong sequence is applied, the module would be damaged.

(4) Cautions for the atmosphere

Dew drop atmosphere should be avoided.

Do not store and/or operate the LCD module in a high temperature and/or humidity atmosphere. Storage in an electro-conductive polymer packing pouch and under relatively low temperature atmosphere is recommended.

(5) Cautions for the module characteristics

Do not apply fixed pattern data signal to the LCD module at product aging.

Applying fixed pattern for a long time may cause image sticking.

(6) Other cautions

Do not disassemble and/or re-assemble LCD module.

Do not re-adjust variable resistor or switch etc.

When returning the module for repair or etc., Please pack the module not to be broken. We recommend to use the original shipping packages.

14.0 MECHANICAL OUTLINE DIMENSION

Figure 6. TFT-LCD Module Outline Dimension (Front View)

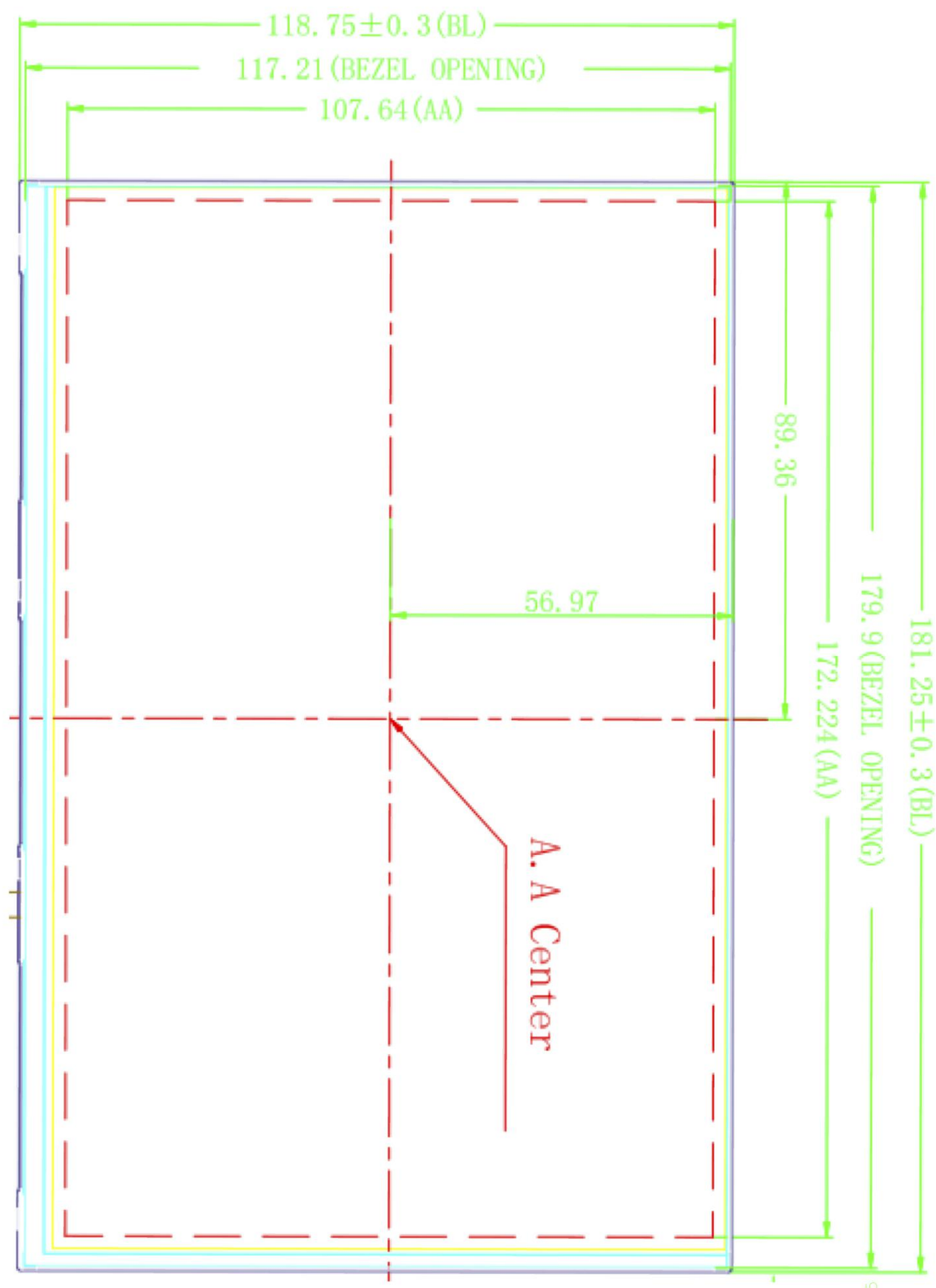
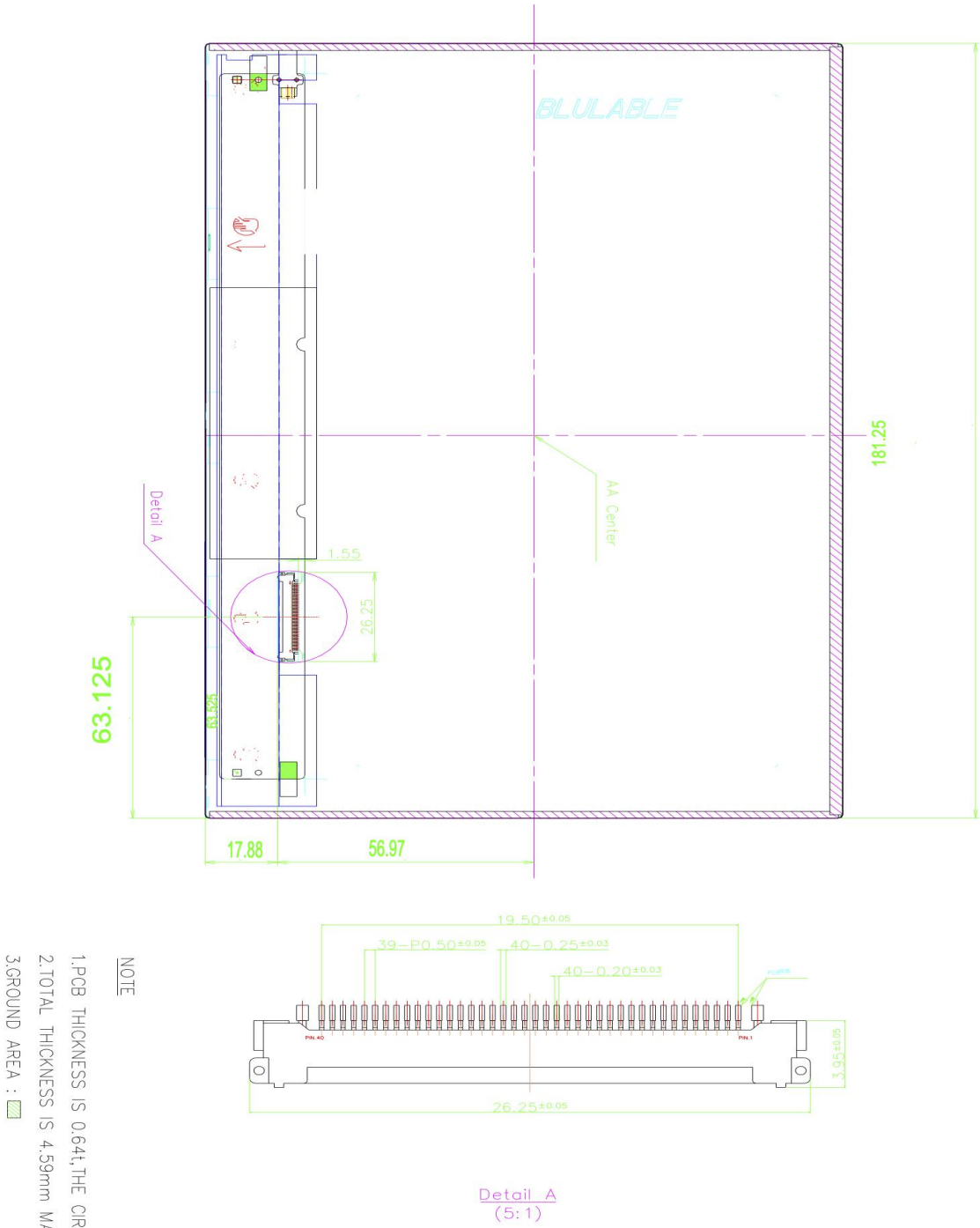


Figure 7. TFT-LCD Module Outline Dimensions (Rear view)



15.0 EDID Table

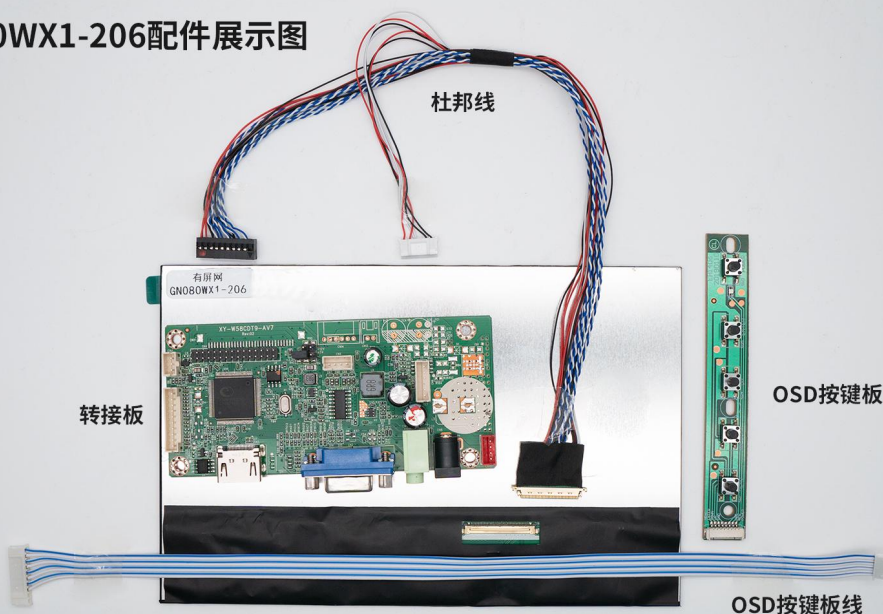
Address (HEX)	Function	Hex	Dec	crc	Input values	Notes
00	Header	00	0		0	EDID Header
01		FF	255		255	
02		FF	255		255	
03		FF	255		255	
04		FF	255		255	
05		FF	255		255	
06		FF	255		255	
07		00	0		0	
08	ID Manufacturer Name	09	9		BOE	ID = BOE
09		E5	229			
0A	ID Product Code	3A	58		1850	ID = 1850
0B		07	7			
0C	32-bit serial No.	00	0			
0D		00	0			
0E		00	0			
0F		00	0			
10	Week of manufacture	1	1		1	
11	Year of Manufacture	15	21		2011	Manufactured in 2011
12	EDID Structure Ver.	01	1		1	EDID Ver 1.0
13	EDID revision #	03	3		1	EDID Rev. 0.1
14	Video Input definition	80	128		-	
15	Max H image size	DC	220		220	220 cm (Approx)
16	Max V image size	8B	139		139	139 cm (Approx)
17	Display Gamma	78	120		2.2	Gamma curve = 2.2
18	Feature support	0A	10			RGB display, Preferred Timing mode
19	Red/Green low bits	8A	138		-	Red / Green Low Bits
1A	Blue/White low bits	40	64		-	Blue / White Low Bits
1B	Red x high bits	99	153	614	0.600	Red (x) = 10011001 (0.6)
1C	Red y high bits	57	87	348	0.340	Red (y) = 01010111 (0.34)
1D	Green x high bits	50	80	322	0.315	Green (x) = 01010000 (0.315)
1E	Green y high bits	90	144	578	0.565	Green (y) = 10010000 (0.565)
1F	Blue x high bits	26	38	153	0.150	Blue (x) = 00100110 (0.15)
20	Blue y high bits	20	32	128	0.125	Blue (y) = 00100000 (0.125)
21	White x high bits	50	80	320	0.313	White (x) = 01010000 (0.313)
22	White y high bits	54	84	336	0.329	White (y) = 01010100 (0.329)
23	Established timing 1	00	0		-	
24	Established timing 2	00	0		-	
25	Established timing 3	00	0		-	
26	Standard timing #1	01	1			Not Used
27		01	1			
28	Standard timing #2	01	1			Not Used
29		01	1			
2A	Standard timing #3	01	1			Not Used
2B		01	1			
2C	Standard timing #4	01	1			Not Used
2D		01	1			
2E	Standard timing #5	01	1			Not Used
2F		01	1			

Address (HEX)	Function	Hex	Dec	crc	nput values	Notes
30	Standard timing #6	01	1			Not Used
31		01	1			
32	Standard timing #7	01	1			Not Used
33		01	1			
34	Standard timing #8	01	1			Not Used
35		01	1			
36	Detailed timing/monitor descriptor #1	64	100		65.00	65MHz Main clock
37		19	25			
38		00	0		1280	Hor Active = 1280
39		32	50		50	Hor Blanking = 50
3A		50	80		-	4 bits of Hor. Active + 4 bits of Hor. Blanking
3B		20	32		800	Ver Active = 768
3C		0C	12		12	Ver Blanking = 12
3D		30	48		-	4 bits of Ver. Active + 4 bits of Ver. Blanking
3E		0A	10		10	Hor Sync Offset = 10
3F		20	32		32	H Sync Pulse Width = 32
40		36	54		3	V sync Offset = 3 line
41		00	0		6	V Sync Pulse width : 6 line
42		D9	217		217	Horizontal Image Size = 217 mm (Low 8 bits)
43		88	136		136	Vertical Image Size = 136 mm (Low 8 bits)
44		00	0		-	4 bits of Hor Image Size + 4 bits of Ver Image Size
45		00	0		0	Hor Border (pixels)
46		00	0		0	Vertical Border (Lines)
47		19	25			Refer to right table
48	Detailed timing/monitor descriptor #2	00	0			ASCII Data Sting Tag
49		00	0			
4A		00	0			
4B		FE	254			
4C		00	0			
4D		0A	10			
4E		20	32			
4F		20	32			
50		20	32			
51		20	32			
52		20	32			
53		20	32			
54		20	32			
55		20	32			
56		20	32			
57		20	32			
58		20	32			
59		20	32			

Address (HEX)	Function	Hex	Dec	crc	Input values	Notes
5A	Detailed timing/monitor descriptor #3	00	0			ASCII Data Sting Tag
5B		00	0			
5C		00	0			
5D		FE	254			
5E		00	0			
5F		42	66		B	Manufacturer name : BOE OT
60		4F	79		O	
61		45	69		E	
62		20	32			
63		4F	79		O	
64		54	84		T	
65		0A	10			
66		20	32			
67		20	32			
68		20	32			
69		20	32			
6A		20	32			
6B		20	32			
6C	Detailed timing/monitor descriptor #4	00	0			Product Name Tag (ASCII)
6D		00	0			
6E		00	0			
6F		FE	254			
70		00	0			
71		42	66		B	Model name : BP101WX1-
72		50	80		P	
73		31	49		1	
74		30	48		0	
75		31	49		1	
76		57	87		W	
77		58	88		X	
78		31	49		1	
79		20	45		-	
7A		32	50		2	
7B		30	48		0	
7C		30	48		0	
7D		0A	10			
7E	Extension flag	00	0			
7F	Checksum	D7	D7	215	-	

可配套出售屏线、驱动板、触摸屏，主板，
可提供批量贴合费用，支持定制异形触摸屏

8寸GN080WX1-206配件展示图



8寸GN080WX1-206连接展示图

