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TITLE: NV126B5M-N41 V3.2

Customer: ASUS

Product Specification

Rev. P4

BOE Optoelectronics Technology Co., Ltd

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	TFT-LCD	С	2019.07.09	1 OF 41

B2014-Q011-O (1/3) A4(210 X 297)





REVISION HISTORY

 $(\sqrt{\ })$ Preliminary Specification

()Final Specification

() mai specification				
Revision No.	Page	Description of Changes	Date	Prepared
P0	41	First Edition	2019.03.14	Li Bin
P1	41	1.Surface treatment:HC+AG40 2.Update LCM Curve Spec,3.Supplier code update	2019.05.20	Li Bin
P2	41	Correct LED structure& Led power input Current, EDID,	2019.06.28	Li Bin
Р3	41	1.Correct Duty Ratio,Packing Order, Luminance Contrast Ratio 2.LCM lable Edition From V3.0 To V3.1	2019.07.09	Li Bin
P4	41	1. Increase Insulating Tape To Protect FPC 2. Increase The Opening Of Cell Tape Copper Foil By 1 mm, version V3.1To V3.2	2019.9.26	Li Bin

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1.0 GENERAL DESCRIPTION

1.1 Introduction

NV126B5M-N41 V3.2 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 12.61inch diagonally measured active area with FHD resolutions (1920 horizontal by 515 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(8bit) colors and color gamut 45% NTSC. The TFT-LCD panel used for this module is a low reflection and higher color type. Therefore, this module is suitable for Notebook Touch bar. The LED driver for back-light driving is built in this model.

All input signals are eDP1.2 interface compatible.

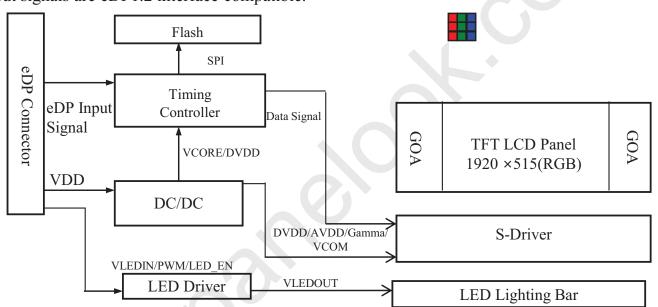


Figure 1. Drive Architecture

1.2 Features

- 2 lane eDP interface with 2.7Gbps link rates
- Thin and light weight
- 16.7M(8bit) color depth, color gamut 45% NTSC.
- Single LED lighting bar (Bottom side/Horizontal Direction)
- Data enable signal mode
- Side mounting frame
- Green product (RoHS & Halogen free product)
- On board LED driving circuit
- Low driving voltage and low power consumption
- On board EDID chip
- DPCD Version 1.4
- Function : SDRRS(on) / CABC(on)
- Edp:1.2

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1.0 GENERAL DESCRIPTION

1.3 Application

• Notebook Touch bar (Wide type)

1.4 General Specification

The followings are general specifications at the model NV126B5M-N41 V3.2. (listed in Table 1)

Parameter	Specification	Unit	Remarks
Active area	309.312(H)×82.9665(V)	mm	
Number of pixels	1920 (H) ×515 (V)	pixels	
Pixel pitch	0.0537 (H) ×0.1611 (V)	mm	
Pixel arrangement	RGB Vertical stripe		
Display colors	16.7M (8Bit)		
Color gamut	45% NTSC (typ.)		
Display mode Normally Black Dimensional outline 315.61±0.3x94.02±0.5			
		mm	
Weight	175(max)	g	
Surface treatment	HC + AG40		
Surface hardness	3Н		
Back-light	Down edge side, 1-LED lighting bar type		Note 1
18	P _D : 0.5(Max.)	W	@Mosaic
Power consumption	P _{BL} : 1.5(Max.)	W	
Consumption	P _{Total} : 2.0(Max.)	W	@Mosaic

Notes: 1. LED Lighting Bar (48*LED Array)

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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. Absolute Maximum Ratings>

					Ta=25+/-2°C
Parameter	Symbol	Min.	Max.	Unit	Remarks
Power Supply Voltage	V_{DD}	-0.3	4.0	V	
eDP input Voltage	$ m V_{eDP}$	0	1.2	V	Note 1
Logic Supply Voltage	V _{IN}	V_{SS} -0.3	V _{DD} +0.3	V	
Operating Temperature	T_{OP}	0	+60	°C	Nata 2
Storage Temperature	T_{ST}	-20	+65	°C	Note 2

Notes:

- 1. Permanent damage to the device may occur if maximum values are exceeded functional operation should be restricted to the condition described under normal operating conditions.
- 2. Temperature and relative humidity range are shown in the figure below. 95 % RH Max. ($40~^{\circ}\text{C} \ge \text{Ta}$) Maximum wet bulb temperature at 39 °C or less. (Ta > $40~^{\circ}\text{C}$) No condensation.

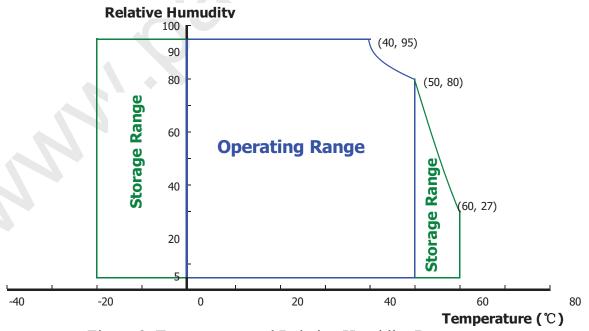


Figure 2. Temperature and Relative Humidity Range

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3.1 Electrical Specifications

< Table 3. Electrical Specifications >

Ta=25+/-2°C

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Param	eter		Min.	Тур.	Max.	Unit	Remarks
Power Supply Voltage		V_{DD}	3.0	3.3	3.6	V	Note 1
Permissible Input Ripp Voltage	le	V_{RF}	-	-	100	mV	
BIST Control Level		High Level	0.8 VDDIO	-	3.3	V	@V _{DDIO} =1.8
		Low Level	0	-	0.15 VDDIO	V	V
Power Supply Inrush C	Current	Inrush	-	-	2	A	Note3
Power Supply	Mosaic	ī	-	136	152	mA	
Current	RGB	I_{DD}	-	273	303	mA	Note 1
	Mosaic	P_{M}		-	0.5	W	
Danier Camanantian	RGB	P _{RGB}	->	-	1.0	W	
Power Consumption	BLU	P_{BL}	-	-	1.5	W	Note 2
	Total	P _{Total}	-	-	2.0	W	@Mosaic

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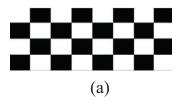




3.1 Electrical Specifications

Notes:

- 1. The supply voltage is measured and specified at the interface connector of LCM. The current draw and power consumption specified is for 3.3V at 25 °C.
 - a) Mosaic pattern 8*4
 - b) R/G/B patterns (maximum logic power consumption)



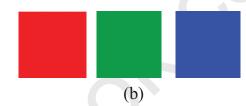


Figure 3. Power Measure Patterns

- 2. Calculated value for reference (VLED × ILED)
- 3. Measure condition (Figure 4)

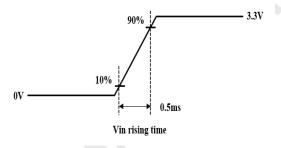


Figure 4. Inrush Measure Condition

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3.2 Backlight Unit

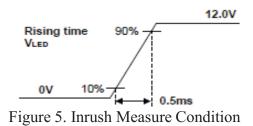
< Table 4. LED Driving Guideline Specifications >

Ta=25+/-2°C

Tuest in 222 211 mg Guidennie Specifications							
	Parameter		Min.	Тур.	Max.	Unit	Remarks
LED Forward V	oltage	V_{F}	-	-	2.9	V	
LED Forward C	urrent	I_{F}	-	8.5	-	mA	
LED Power Inp	ut Voltage	VLED	5	12	21	V	
LED Power Inp	ut Current	I_{LED}	-	51	-	mA	N-4- 1
LED Power Cor	nsumption	P_{LED}	-	-	1.5	W	Note 1
Power Supply Voltage for LED Driver Inrush		V _{LED}	5	12	21	V	Note 3
LED Life-Time		N/A	15,000)-	-	Hour	$I_{F} = 8.5 \text{mA}$ Note 2
EN Control	Backlight On	X 7	1.8	2.5	5.0	V	
Level	Backlight Off	V _{BL_EN}	0	-	0.5	V	
PWM Control	High Level	77	1.8	2.5	5.0	V	
Level	Low Level	$ m V_{BL_PWM}$	0	-	0.5	V	
PWM Control Frequency		F_{PWM}	200	-	2,000	Hz	
Duty Ratio			5	-	100	%	

Notes:

- Power supply voltage12V for LED driver.
 Calculator value for reference IF × VF ×N/driver efficiency = PLED
- 2. The LED life-time define as the estimated time to 50% degradation of initial luminous.
- 3. Measure condition (Figure 5)



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3.3 LED Structure

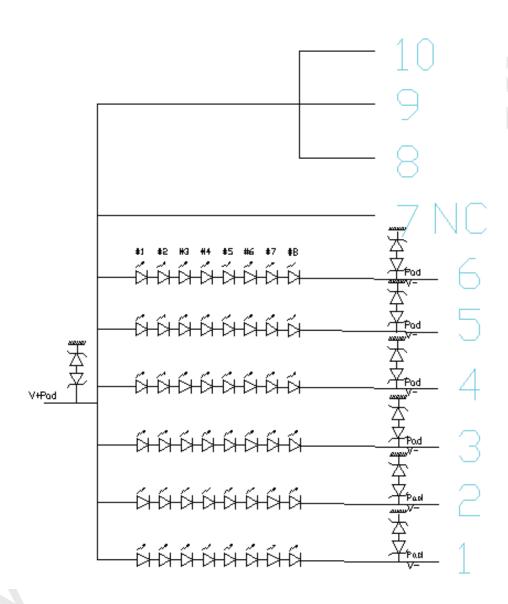


Figure 6. LED Structure

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4.1 Overview

The test of optical specifications shall be measured in a dark room (ambient luminance ≤ 1 lux and temperature $= 25\pm 2\,^{\circ}\text{C}$) with the equipment of luminance meter system (Goniometer system and TOP CON BM-5) 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°. We refer to $\theta\emptyset=0$ (= θ 3) as the 3 o'clock direction (the "right"), $\theta\emptyset=90$ (= θ 12) as the 12 o'clock direction ("upward"), $\theta\emptyset=180$ (= θ 9) as the 9 o'clock direction ("left") and $\theta\emptyset=270$ (= θ 6) as the 6 o'clock direction ("bottom"). While scanning θ and/or \emptyset , 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+/-0.3V at $25\,^{\circ}$ C. Optimum viewing angle direction is 6 'clock.

4.2 Optical Specifications

<Table 5. Optical Specifications>

Paramo	eter	Symbol	Condition	Min.	Typ.	Max.	Unit	Remark
	Horizontal	Θ_3		80	85	89	Deg.	N. 1
Viewing Angle	Horizontai	Θ_9	CR > 10	80	85	89	Deg.	
Range	Vertical	Θ_{12}	CR > 10	80	85	89	Deg.	Note 1
	Vertical	Θ_6		80	85	89	Deg.	
Luminance Cor	ntrast Ratio	CR	$\Theta = 0$ °	1000	1200	-		Note 2
Luminance of White	5 Points	Y_{w}	$\Theta = 0$ °	212.5	250	-	cd/m ²	Note 3
White	5 Points	ΔΥ5	U = 0 $ILED = 8.5 mA$	80	-	-	%	
Luminance Uniformity	13 Points	ΔΥ13	ILED - 0.3IIIA	67	-	-	%	Note 4
White Chromaticity		W_{x}	$\Theta = 0^{\circ}$	0.278	0.308	0.338		Note 5
winte Cinoi	maticity	W_{v}	0 – 0	0.292	0.322	0.352		Note 3
	Red	R_x			0.574			
	Red	R_y			0.318			
Reproduction	Green	G_{x}	$\Theta = 0^{\circ}$	T 0.02	0.34	Tran 10.02		
of Color	Green	G_{v}	6 – 0	Тур0.03	0.553	Typ.+0.03		
	D1	B_{x}			0.157			
	Blue	$\mathrm{B_{v}}$			0.096			
Color Ga	ımut	NTSC		40	45		%	
Response (Rising + F		T_{RT}	$Ta=25^{\circ}C$ $\Theta=0^{\circ}$	-	30	35	ms	Note 6
Cross T	alk	CT	$\Theta = 0$ °	-	-	2.0	%	Note 7

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Global LCD Panel Exchange Center

Notes:

- 1. Viewing angle is the angle at which the contrast ratio is greater than 10. The viewing angles are determined for the horizontal or 3, 9 o'clock direction and the vertical or 6, 12 o'clock direction with respect to the optical axis which is normal to the LCD surface (see Figure 7).
- 2. Contrast measurements shall be made at viewing angle of Θ = 0 and at the center of the LCD surface. Luminance shall be measured with all pixels in the view field set first to white, then to the dark (black) state . (see Figure 7) Luminance Contrast Ratio (CR) is defined mathematically.

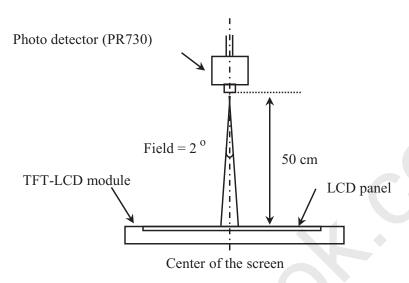
- 3. Center Luminance of white is defined as luminance values of 5 point average across the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in Figure 8 for a total of the measurements per display.
- 4. The White luminance uniformity on LCD surface is then expressed as : ΔY =Minimum Luminance of 5(or 13) points / Maximum Luminance of 5(or 13) points.(see Figure 8 and Figure 9).
- 5. The color chromaticity coordinates specified in Table 5 shall be calculated from the spectral data measured with all pixels first in red, green, blue and white. Measurements shall be made at the center of the panel.
- 6. The electro-optical response time measurements shall be made as Figure 10 by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Tf, and 90% to 10% is Tr.
- 7. Cross-Talk of one area of the LCD surface by another shall be measured by comparing the luminance (YA) of a 25mm diameter area, with all display pixels set to a gray level, to the luminance (YB) of that same area when any adjacent area is driven dark. (See Figure 11).

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4.3 Optical Measurements



Optical characteristics measurement setup

Figure 7. Measurement Set Up

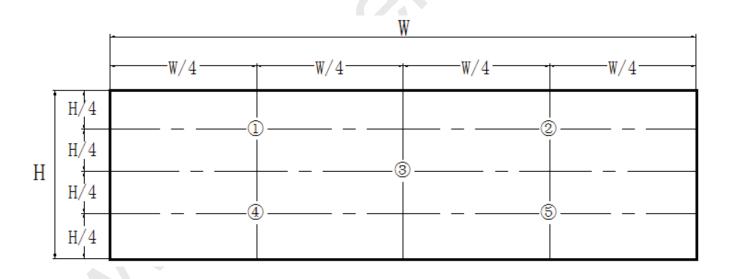


Figure 8. White Luminance and Uniformity Measurement Locations (5 points)

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 7 for a total of the measurements per display.

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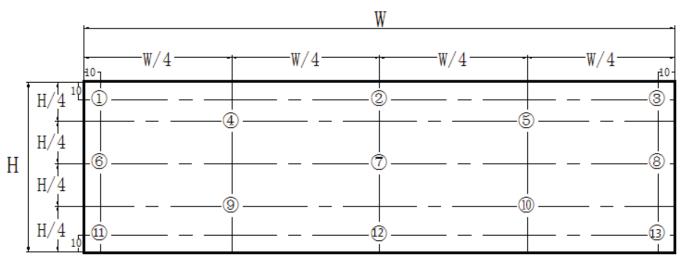


Figure 9. Uniformity Measurement Locations (13 points)

The White luminance uniformity on LCD surface is then expressed as : $\Delta Y5 = Minimum Luminance$ of five points / Maximum Luminance of five points (see Figure 8), $\Delta Y13 = Minimum Luminance$ of 13 points /Maximum Luminance of 13 points (see Figure 9).

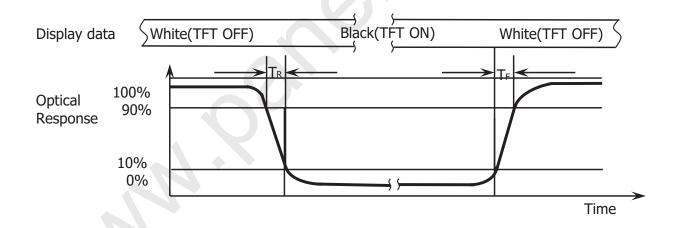


Figure 10. Response Time Testing

The electro-optical response time measurements shall be made as shown in Figure 10 by switching the "data" input signal ON and OFF. Tr: The luminance to change from 10% to 90%, Tf: The luminance to change from 90% to 10%.

The test system: LMS PR810

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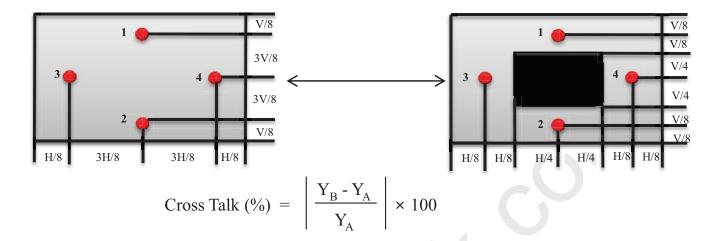


Figure 11. Cross Talk Modulation Test Description

Where:

 Y_A = Initial luminance of measured area (cd/m²)

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

The location 1/2/3/4 measured will be exactly the same in both patterns. The test background gray is from L64 to L192. Take the largest data as the result.

Cross Talk of one area of the LCD surface by another shall be measured by comparing the luminance (YA) of a 25mm diameter area, with all display pixels set to a gray level, to the luminance (YB) of that same area when any adjacent area is driven dark.(Refer to Figure 11)

The test system: PR730

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5.1 Electrical Interface Connection

The electronics interface connector is EDP type. The mating connector part number is I-PEX 20455-040E-66. The connector interface pin assignments are listed in Table 6.

Terminal	Symbol	Functions	
Pin No.	Symbol	Description	
1	CABC	CABC EN PIN	
2	H_GND	Ground	
3	LANE1_N	eDP RX channel 1 negative	
4	LANE1_P	eDP RX channel 1 positive	
5	H_GND	Ground	
6	LANE0_N	eDP RX channel 0 negative	
7	LANE0_P	eDP RX channel 0 positive	
8	H_GND	Ground	
9	AUX_CH_P	eDP AUX CH positive	
10	AUX_CH_N	eDP AUX CH negative	
11	H_GND	Ground	
12	LCD_VCC	Power Supply, 3.3V (typ.)	
13	LCD_VCC	Power Supply, 3.3V (typ.)	
14	LCD_Self_Test	Panel self test enable	
15	H_GND	Ground	
16	H_GND	Ground	
17	ASUSD	Hot plug detect output	
18	BL_GND	LED Ground	
19	BL_GND	LED Ground	
20	BL_GND	LED Ground	
21	BL_GND	LED Ground	
22	BL_ENABLE	LED enable pin(+3.3V Input)	
23	BL_PWM	System PWM Signal Input	
24	NC	No Connection	
25	NC	No Connection	
26	BL_POWER	LED Power Supply 5V-20V	
27	BL_POWER	LED Power Supply 5V-20V	
28	BL_POWER	LED Power Supply 5V-20V	
29	BL_POWER	LED Power Supply 5V-20V	
30	NC	No Connection	

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5.1 Electrical Interface Connection

The electronics interface connector is LVDS type. The mating connector part number is I-PEX 20455-030E-66. The connector interface pin assignments are listed in Table 6.

<Table 6. Pin Assignments for the Interface Connector>

Terminal	Symbol	Functions
Pin No.	Symbol	Description
31	NC	NC
32	NC	NC
33	GND	Touch GND
34	VTSP(3.3V)	Touch Power Supply
35	VTSP(3.3V)	Touch Power Supply
36	TP_EN	
37	TP_CLK	Touch clock
38	TP_DATA	Touch data
39	TP_INT	
40	NC	

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5.2 eDP Interface

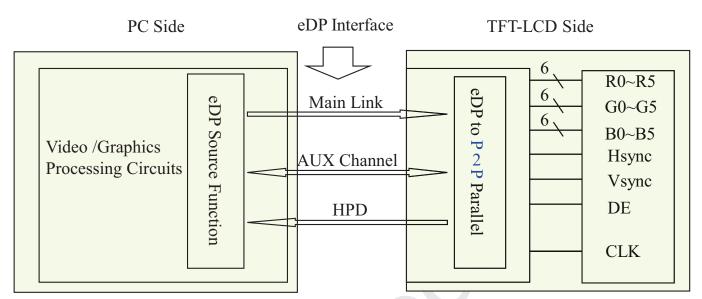


Figure 12. eDP Interface Architecture

Note:

Transmitter: NT71835or equivalent. Transmitter is not contained in module.

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5.3 Data Input Format

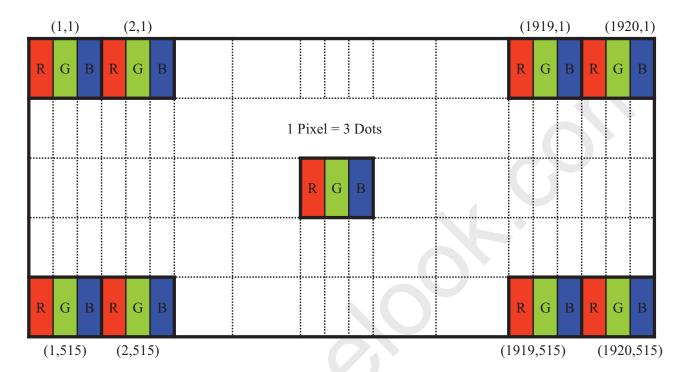


Figure 13. Display Position of Input Data (V-H)

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5.4 Back-light & LCM Interface Connection

BLU Interface Connector: STM MSK24022P10

<Table 7. Pin Assignments for the BLU Connector>

Pin No.	Symbol	Description	Pin No.	Symbol	Description	
1	LED	LED cathode connection	6	LED	LED cathode connection	
2	LED	LED cathode connection	7	NC	No Connection	
3	LED	LED cathode connection	8	Vout	LED anode connection	
4	LED	LED cathode connection	9	Vout	LED anode connection	
5	LED	LED cathode connection	10	Vout	LED anode connection	

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6.1 The NV126B5M-N41 V3.2 Is Operated By The DE Only

< Table 8. Signal Timing Specification >

Item		Symbols	Min	Тур	Max	Unit
Clock	Frequency	1/Tc	-	70.6		MHz
			-	565	(-)	lines
Frame Period		Tv	-	60	-	Hz
			-	16.67	-	ms
Vertical Display Period		Tvd	-	515	-	lines
One line Scanning Period		Th	7-(2080	-	clocks
Horizon	tal Display Period	Thd		1920	-	clocks

Note: The above is as optimized setting.

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6.2 eDP Rx Interface Timing Parameter

The specification of the eDP Rx interface timing parameter is shown in Table 9.

<Table 9. eDP Main-Link RX TP4 Package Pin Parameters>

Item	Symbol	Min	Тур	Max	Unit	Remark
Spread spectrum clock (Link clock down-spreading)	ssc	-	-	0.5	%	
EYE width at package pins	Vrx-eye	0.38			UI	
Differential peak-to-peak input voltage at package pins	VRX-DIFFp-p	70	-	1200	mV	
Rx input DC common mode voltage	VRX_DC_CM	0		2	V	
Differential termination resistance	RRX-DIFF	80	1	100	Ω	
Single-ended termination resistance	Rrx-se	40	-	60	Ω	
Rx short circuit current limit	IRX_SHORT		-	20	mA	
Intra-pair skew at Rx package pins (HBR) RX intra-pair skew tolerance at HBR	LRX_SKEW_ INTRA_PAIR	-	-	60	ps	
AC Coupling Capacitor	CSOURCE_ML	75		200	nF	Source side

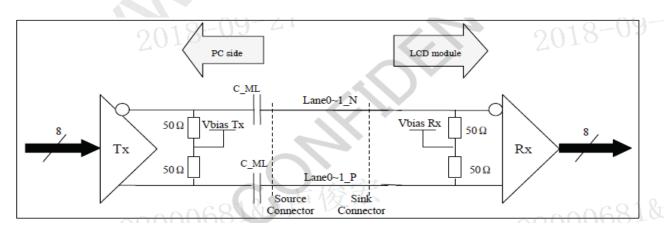


Figure 14. Main link differential pair

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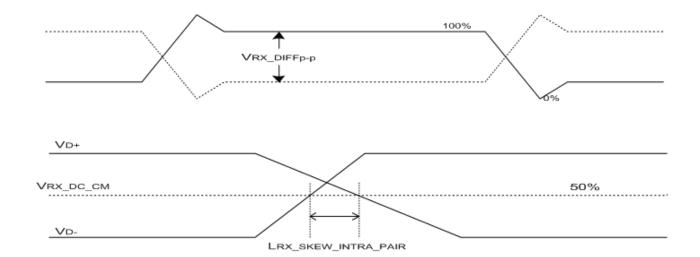


Figure 15. VRX-DIFFp-p & LRX_SKEW_INTRA_PAIR

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<Table 10. HPD Characteristics>

Item	Symbol	Min	Тур	Max	Unit	Remark
HPD voltage	VHPD	2.25	1	3.6	V	
Hot Plug Detection Threshold	-	2.0	-	-	V	Carrage side Detecting
Hot Unplug Detection Threshold	-	-	-	0.8V	V	Source side Detecting
HPD_IRQ Pulse Width	HPD_IRQ	0.5	-	1	ms	
HPD_TimeOut	-	2.0	-	1	ms	

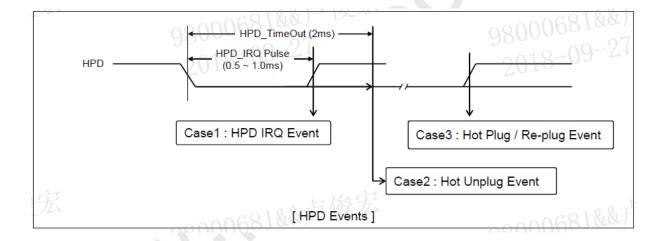


Figure 16. HPD Events

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<Table 11. AUX Characteristics>

Item	Symbol	Min	Тур	Max	Unit	Remark
AUX unit interval	UIAUX	0.4	0.5	0.6	Us	
AUX peak-to-peak input differential voltage	VAUX-RX-D IFFp-p	0.29	-	1.38	V	
AUX CH termination DC resistance	RAUX-TER M	80	100	120	Ohm	
AUX DC common mode voltage	VAUX-DC-C M	0	-	2	V	
AUX turn around common mode voltage	VAUX-TUR N-CM	-		0.3	V	
AUX short circuit current limit	IAUX-SHOR T			90	mA	
AUX AC Coupling Capacitor	CSOURCE-A UX	75	-	200	nf	Source side

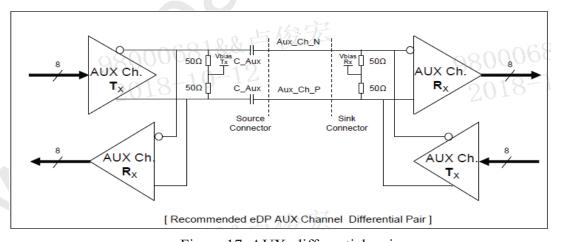


Figure 17. AUX differential pair

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

< Table 12. Input Signal & Basic Display Colors & Gray Scale of Colors >

	Colors &									Data	sig	nal													
	Gray scale	R0	R1	R2	R3	R4	R5	R6	R7	G0	G1	G2	G3	G4	G5	G6	G7	В0	В1	B2	В3	B4	B5	B6	B7
	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
Basic	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
colors	Light Blue	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
	Purple	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
	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
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray scale of	1					†								1								1			
Red	∇					ţ								 								ţ			
	Brighter	1	0	1	1	1	1	1	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
	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
	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray scale of	1					1								1								†			
Green	∇					↓								 								ţ			
	Brighter	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	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
	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
	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	1	0	0	0	0	0	0	0
	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Gray scale of						†								†								†			
Blue	∇					<u> </u>				_				<u> </u>								 			
	Brighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	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
	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
	Black	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
Gray	Δ	1		0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0		0	0	0	0	0
scale	Darker	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
of	Δ					†								†								t			
White	∇					↓								<u> </u>								 			
&	Brighter	1	_	1	1	1	1	1	1	1	0	1	1	1		1	1	1	0	1	1	1		1	1
Black	∇	0		1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
	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

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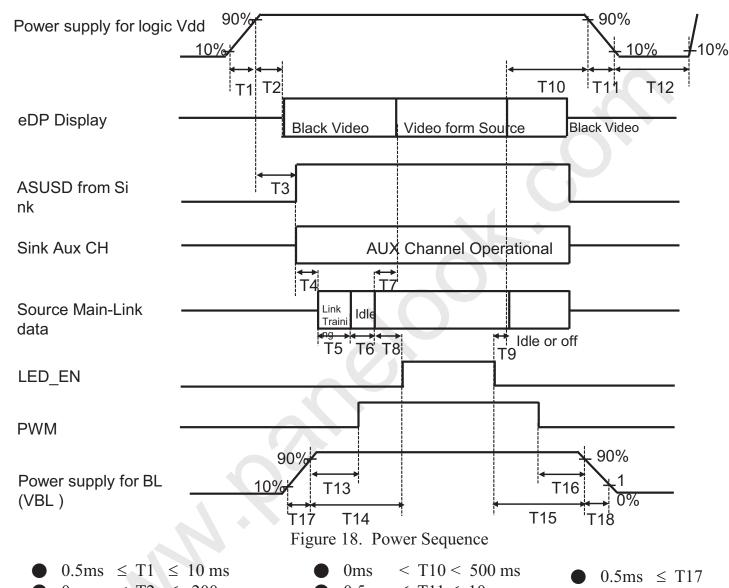
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 $0.5 \text{ms} \leq T18$



8.0 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.



- 0 ms < T2 \leq 200 ms
- \bullet 0ms < T3 \leq 200 ms
- T3+T4+T5+T6+T8>200ms
- \bullet 0ms < T7 \le 50ms
- 50ms < T8
- 0 ms < T9

- $0.5 \text{ms} \le \text{T11} \le 10 \text{ ms}$
- $500 \text{ms} \leq T12$
- 10ms < T13
- 20ms < T14
- 10ms < T16

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.

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8.0 POWER SEQUENCE

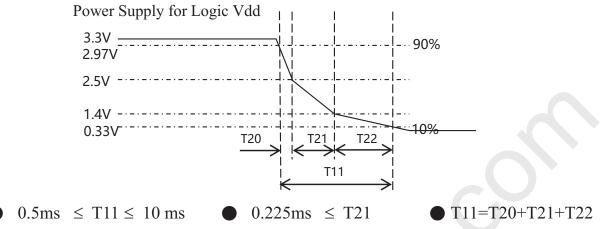


Figure 19. T11 timing requirements

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9.0 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.

9.1 TFT LCD Module

< Table 13. Signal Connector >

For Signal Connector
I-PEX
20455-040E-66
I-PEX 20455-040E-66

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10.0 MECHANICAL CHARACTERISTICS

10.1 Dimensional Requirements

Figure 23 shows mechanical outlines for the model NV126B5M-N41 V3.2. Other parameters are shown in Table 14.

<Table 14. Dimensional Parameters>

Parameter	Specification	Unit
Active Area	309.312(H)×82.9665(V)	mm
Number of pixels	1920(H) X 515 (V) (1 pixel = R + G + B dots)	pixels
Pixel pitch	0.0537(H) ×0.1611 (V)	mm
Pixel arrangement	RGB Vertical stripe	
Display colors	16.7M(8bit)	
Display mode	Normally Black	
Dimensional outline	315.61±0.3x94.02±0.5	mm
Weight	175 (max)	g

10.2 Mounting

See Figure 24.

10.3 Anti-Glare and Polarizer Hardness.

The surface of the LCD has an Anti-Glare coating to minimize reflection and a coating to reduce scratching.

10.4 Light Leakage

There shall not be 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 350lux.

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11.0 RELIABILITY TEST

The reliability test items and its conditions are shown in below. <Table 15. Reliability Test>

No	Test Items	Conditions	Remark
1	High temperature storage tes t	Ta = 60 ℃, 240 hrs	
2	Low temperature storage test	Ta = -20℃, 240hrs	
3	High temperature & high hu midity operation test	Ta = 50 ℃, 80%RH, 240 hrs	
4	High temperature operation t	Ta = 50 ℃, 240 hrs	
5	Low temperature operation t est	Ta = 0 ℃, 240 hrs	
6	Thermal shock	Ta = -20 $^{\circ}$ C \leftrightarrow 60 $^{\circ}$ C (0.5 hr), 100 cycle	
7	Vibration test (non-operating)	1.5G/10-200Hz, Sine wave, 30min/cycl e, 1cycle for each X,Y,Z	Note 1
8	Shock test (non-operating)	220G, 2ms, half sine wave, 1 time for e ach direction of $\pm X, \pm Y, \pm Z$	Note 1
9	Electro-static discharge test (non-operating)	Air : 150 pF, 330Ω, ±15 KV Contact : 150 pF, 330Ω, ±8 KV	Note 2
	Power on/off test	25℃ , 30s on / 30s off , 3000times	

Notes:

- 1. The fixture must be hard enough, so that the module would not be twisted or bent.
- 2. Self- recovery and restart recovery is allowed. No hardware failures.

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12.0 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.
 - Obey 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.

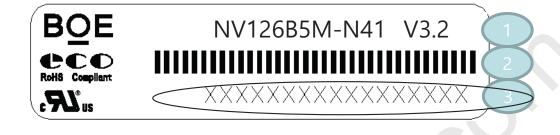
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13.0 LABEL

(1) Product Label



Label Size: $48mm \times 12mm$ / Thickness: 0.08mm

1. FG-CODE: NV126B5M-N41 V3.2

2. MDL ID Bar Code

3. MDL ID

Figure 20. Product Label

<Table 16. Module ID Naming Rule>

Module ID Naming Rule:

												-					
序列 号	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
代码	Х	X	X	3	Х	Х	Х	3	9	4	0	Х	Х	Х	Х	Х	Х
描述 GE		BN	GRADE	В3	\	′	М	l	ast 4 o	digits o	f		S	eriers	Numb	er	

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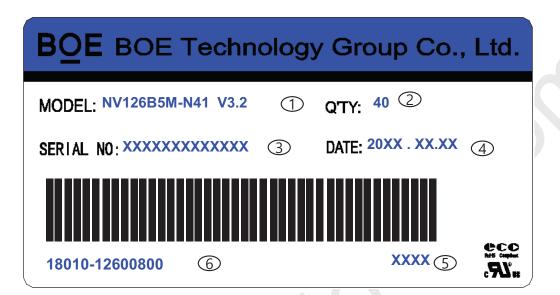
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13.0 LABEL

(3) Box label



Serial number marked part needs to print, show as follows:

- 1. FG-CODE:NV126B5M-N41 V3.2
- 2. Module Q'ty in one box
- 3. Box ID
- 4. Packing Date
- 5. Last 4 digits of FG-code
- 6. The supplier code –18010-12600800
- 7. Total Size:110×50mm

<Table 17. Box Label Naming Rule >

SERIA NO	1	2	3	4	5	6	7	8	9	10	11	12	13
code	Х	Х	Χ	Х	Х	Х	X	Х	Х	Х	Х	Х	Χ
Description	GBI	N	Grade	Line	Ye	ar	Month	Rev		9	Serial N	0.	

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box



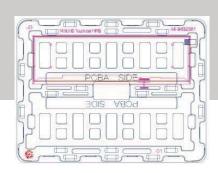
14.0 PACKING INFORMATION

14.1 Packing Order

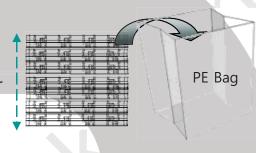
-. -. Place 2pcs LCM on a tray with one EPE spacer upside

Place 21pcs PET tray in a PE bag 1pcs up is umpty

-. Capacity: 40pcs/PE Bag

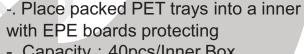


21 layer



3 layers per Pallet, 4 inner boxes per layer,

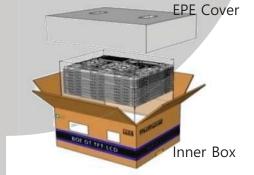
- -. Pallet outer package : Protective film & Paper Corner
- -. Capacity: 480pcs/Pallet



-. Capacity: 40pcs/Inner Box



Figure 23. Packing Order



14.2 Note

- Box dimension: 500mm(W) x 400mm(D) x 290mm(H)
- Package quantity in one box: 40pcs
- Total weight: 13.8kg/Box

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15.0 MECHANICAL OUTLINE DIMENSION

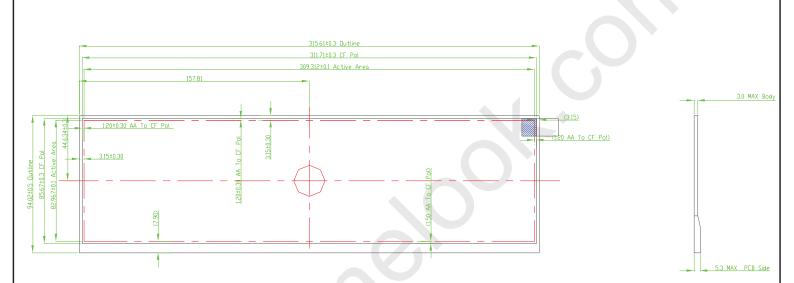


Figure 24. TFT-LCD Module Outline Dimension (Front View)

Note:

- 1. Top Polarizer is the highest part.
- 2. Curve Spec: ±0.5mm
- 3. No light leakage from all 4 corners of LCM.
- 4. Size Unit: mm.
- 5. General Tolerance: ±0.3mm.
- 6. Measurement method refer to Appendix A
- 7. System matching refer to Appendix B
- 8. "()" marks the reference dimensions.

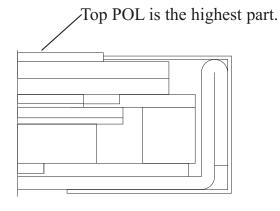


Figure 25. Highest Point Position

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15.0 MECHANICAL OUTLINE DIMENSION

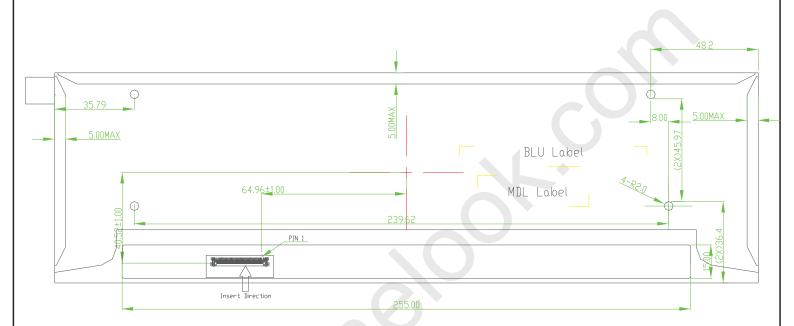


Figure 26. TFT-LCD Module Outline Dimensions (Rear view)

Note:

- 1. Top Polarizer is the highest part.
- 2. Curve Spec: ±0.5mm
- 3. No light leakage from all 4 corners of LCM.
- 4. Size Unit: mm.
- 5. General Tolerance: ±0.3mm.
- 6. Measurement method refer to Appendix A
- 7. System matching refer to Appendix B
- 8. "()" marks the reference dimensions.

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16.0 EDID Table

	eck QE	Addres s (HEX)	Function	Hex	Dec	crc	Input values.	Notes
_	_	00		00	0		0	
-	-	01		FF	255		255	
-	-	02		FF	255		255	
-	-	03		FF	255		255	
-	-	04	Header	FF	255		255	EDID Header
-	-	05	-	FF	255		255	
-	-	06		FF	255		255	
-	-	07		00	0		0	
V		08	ID Manufacturer	09	9			
V		09	Name	E5	229		BOE	ID = BOE
	V	0A		7F	127			
	٧	0B	ID Product Code	08	8		2175	ID = 2175
V		0C		00	0			
V		0D		00	0			
V		0E	32-bit serial No.	00	0			
V		0F		00	0			7
			Week of					
٧		10	manufacture	01	1		1	
V		11	Year of Manufacture	1D	29		2019	Manufactured in 2019
V		12	EDID Structure Ver.	01	1		1	EDID Ver 1.0
V		13	EDID revision #	04	4		4	EDID Rev. 0.4
V	V	14	Video input definition	A5	165		-	
	V	15	Max H image size	1F	31		31	31 cm (Approx)
	V	16	Max V image size	08	8		8	8 cm (Approx)
	V	17	Display Gamma	78	120		2.2	Gamma curve = 2.2
V		18	Feature support	02	2		-	RGB display, Preferred Timming mode
	V	19	Red/Green low bits	D2	210		-	Red / Green Low Bits
	V	1A	Blue/White low bits	2D	45		-	Blue / White Low Bits
	٧	1B	Red x high bits	93	147	587	0.574	Red $(x) = 10010011 (0.574)$
	٧	1C	Red y high bits	51	81	325	0.318	Red $(y) = 01010001 (0.318)$
	V	1D	Green x high bits	57	87	348	0.340	Green $(x) = 01010111 (0.34)$
	V	1E	Green y high bits	8D	141	566	0.553	Green $(y) = 10001101 (0.553)$
	V	1F	Blue x high bits	28	40	160	0.157	Blue (x) = 00101000 (0.157)
	٧	20	BLue y high bits	18	24	98	0.096	Blue (y) = 00011000 (0.096)
	٧	21	White x high bits	4E	78	315	0.308	White $(x) = 01001110 (0.308)$
	٧	22	White y high bits	52	82	329	0.322	White $(y) = 01010010 (0.322)$
V		23	Established timing 1	00	0		-	
V		24	Established timing 2	00	0		-	
٧		25	Established timing 3	00	0		-	

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٧		26	Standard timing	01	1		Not Used
٧		27	#1	01	1		Not osed
٧		28	Standard timing	01	1		Not Hood
٧		29	#2	01	1		Not Used
V		2A	Standard timing	01	1		Not Used
٧		2B	#3	01	1		Not osed
٧		2C	Standard timing	01	1		Not Used
٧		2D	#4	01	1		Not Used
٧		2E	Standard timing	01	1		Net Head
٧		2F	#5	01	1		Not Used
٧		30	Standard timing	01	1		Net Head
٧		31	#6	01	1		Not Used
٧		32	Standard timing	01	1		Neb Head
٧		33	#7	01	1		Not Used
٧		34	Standard timing #8	01	1		Neb Head
٧		35		01	1		Not Used
	V	36		94	148	70.6	70 CMUs Main alask
	V	37		1B	27	70.6	70.6MHz Main clock
	V	38		80	128	1920	Hor Active = 1920
	٧	39		A0	160	160	Hor Blanking = 160
	V	3A		70	112	-	4 bits of Hor. Active + 4 bits of Hor. Blanking
	V	3B		03	3	515	Ver Active = 1100
	V	3C		32	50	50	Ver Blanking = 50
	٧	3D		20	32	-	4 bits of Ver. Active + 4 bits of Ver. Blanking
	V	3E	Detailed	30	48	48	Hor Sync Offset = 48
	٧	3F	timing/monitor descriptor #1	20	32	32	H Sync Pulse Width = 32
	٧	40	uescriptor #1	55	85	5	V sync Offset = 5 line
	V	41		00	0	5	V Sync Pulse width: 5 line
	V	42		35	53	309	Horizontal Image Size = 309 mm (Low 8 bits)
	V	43		53	83	83	Vertical Image Size = 83 mm (Low 8 bits)
	V	44		10	16	-	4 bits of Hor Image Size + 4 bits of Ver Image Size
	V	45		00	0	0	Hor Border (pixels)
	V	46		00	0	0	Vertical Border (Lines)
	٧	47		1A	26	-	Refer to right table

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PRODUCT GROUP REV ISSUE DATE

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V	48		12	18		56.5	56.5MHz Main clock
V	49		16	22			
V	4A		80	128		1920	Hor Active = 1920
V	4B		A0	160		160	Hor Blanking = 160
V	4C		70	112		-	4 bits of Hor. Active + 4 bits of Hor. Blanking
V	4D		03	3		515	Ver Active = 1100
V	4E		32	50		50	Ver Blanking = 50
V	4F		20	32		-	4 bits of Ver. Active + 4 bits of Ver. Blanking
V	50	Detailed	30	48		48	Hor Sync Offset = 48
V	51	timing/monitor descriptor #2	20	32		32	H Sync Pulse Width = 32
V	52		55	85		5	V sync Offset = 5 line
V	53		00	0		5	V Sync Pulse width: 5 line
V	54		35	53		309	Horizontal Image Size = 309 mm (Low 8 bits)
V	55		53	83		83	Vertical Image Size = 83 mm (Low 8 bits)
V	56		10	16		-	4 bits of Hor Image Size + 4 bits of Ver Image Size
V	57		00	0		0	Hor Border (pixels)
V	58		00	0		0	Vertical Border (Lines)
V	59		1A	26		-	
V	5A		00	0			
V	5B		00	0			
V	5C		00	0			ASCII Data Sting Tag
V	5D		FE	254			
٧	5E		00	0			
V	5F		42	66		В	
V	60		4F	79		0	
V	61		45	69		Е	
٧	62	Detailed	20	32			
٧	63	timing/monitor descriptor #3	48	72		Н	
٧	64		46	70		F	
V	65		0A	10			Manufacture name : BOEHF
V	66		20	32			
٧	67		20	32			
٧	68		20	32			
٧	69		20	32			
٧	6A		20	32			
V	6B		20	32			
			1	1	1		1

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V 6C V 6D 00 0 00 0 00 0 00 0									· · · · · · · · · · · · · · · · · · ·
V 6E V 70 V 71 V 72 V 73 V 74 V 75 V 76 V 77 V 78 V 77 V 78 V 77 V 78 V 77 V 78 V 70 V 70 V 70 V 70 V 70 OA 10 O 0	V		6C		00	0			
V 6F V 70 V 71 V 72 V 73 V 74 V 75 V 76 V 77 V 78 V 79 V 78 V 70 V 70 V 70 V 70 V 70 V 70 Extension flag 00 Detailed timing/monitor descriptor #4 36 54 46 B 35 53 4D 77 M Model name : NV126B5M-N41	٧		6D		00	0			
V 70 V 71 V 72 V 73 V 74 V 75 V 76 V 77 V 78 V 79 V 78 V 70 V 70 V 70 V 70 V 70 V 70 Extension flag 00 0 0	٧		6E		00	0			Product Name Tag (ASCII)
V 71 V 72 V 73 V 74 V 75 V 76 V 77 V 78 V 79 V 78 V 79 V 78 V 78 V 78 V 78 V 78 V 78 V 70 V 70 V 7D V 7E Extension flag 00 0 0	V		6F		FE	254			
V 72 V 73 V 74 V 75 V 76 V 76 V 77 V 78 V 79 V 78 V 78 V 78 V 78 V 78 V 78 V 7C V 7D V 7D V 7E Extension flag 00 Detailed timing/monitor descriptor #4 42 66 B Model name : NV126B5M-N41 Model name : NV126B5M-N41 Model name :	V		70		00	0			
V 73 V 74 V 75 V 76 V 76 V 77 V 78 V 79 V 78 V 7C V 7D V 7D V 7E Extension flag 00 0 0	٧		71		4E	78		N	
V 74 Detailed timing/monitor descriptor #4 32 50 2 V 75 36 54 6 V 76 42 66 B V 77 M Model name: NV126B5M-N41 V 78 4D 77 M V 78 4E 78 N V 7C 34 52 4 V 7D 0A 10 0A V 7E Extension flag 00 0	V		72		56	86		V	
V 74 V 75 V 76 V 77 V 77 V 78 V 79 V 7A V 7B V 7C V 7D V 7E Extension flag 00 D 00	V		73		31	49		1	
V 75 descriptor #4 36 54 6 V 76 V 77 V 78 V 79 V 7A V 7B V 7C V 7D V 7E Extension flag 00 O 0	V		74		32	50		2	
V 76 V 77 V 78 V 79 V 7A V 7B V 7C V 7D OA 10 V 7E Extension flag 00 O B Model name : NV126B5M-N41 M AD 77 M M AD 77 M M N N N 34 52 4 1 1 N 0A 10 0A	V		75		36	54		6	
V 77 V 78 V 79 V 7A V 7B V 7C V 7D V 7E Extension flag 00 00 00	V		76		42	66		В	Model name + NV126DEM N41
V 79 V 7A V 7B V 7C V 7D V 7E Extension flag 00 0 00	V		77		35	53		5	Model Harrie : NV120B3M-N41
V 7A V 7B V 7C V 7C V 7D V 7E Extension flag 00 0 0	V		78		4D	77		М	
V 7B V 7C V 7C V 7D V 7D V 7E Extension flag 00 0 0	V		79		2D	45		-	
V 7C 31 49 1 V 7D 0A 10 V V 7E Extension flag 00 0	V		7A		4E	78		N	
V 7D 0A 10 V V 7E Extension flag 00 0	V		7B		34	52		4	
V V 7E Extension flag 00 0	V		7C		31	49		1	
	V		7D		0A	10			
7F Checksum ED 237 -	V	V	7E	Extension flag	00	0			
	-	-	7F	Checksum	ED	237	237	-	

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