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# PT150X0M-N10 Product Specification (RGB)

## **BEIJING BOE OPTOELECTRONICS TECHNOLOGY**

SPEC. NUMBER	PRODUCT GROUP	REV.	ISSUE DATE	PAGE
S801-5127	TFT-LCD	0	2019.02.18	1 OF 25

BOE	PRODUCT GROUP	REV	ISSUE DATE
POL	TFT LCD PRODUCT	0	2019.02.18

# REVISION HISTORY

REV.	ECN NO.	DESCRIPTION OF CHANGES	DATE	PR	EPARED
0	-	Initial Release	2019.02.18	Ма	Xiaoxian
SPE	C. NUMBER	SPEC TITLE			PAGE

S801-5127

PT150X0M-N10 Product Specification

PAGE 2 OF 25

B2006-5006-O (2/3) A4(210 X 297)



REV

ISSUE DATE

TFT LCD PRODUCT

0

2019.02.18

# Contents

No.	Items	Page
1.0	General Description	4
2.0	Absolute Maximum ratings	6
3.0	Electrical specifications.	7
4.0	Optical specifications.	9
5.0	Interface Connection	13
6.0	Signal Timing Specifications	15
7.0	Power Sequence	16
8.0	Mechanical Characteristics	17
9.0	Reliability Test	18
10.0	Handling & Cautions.	19
11.0	Label	20
12.0	Packing information	22
13.0	Mechanical Outline Dimension	23

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	3 <b>OF 25</b>

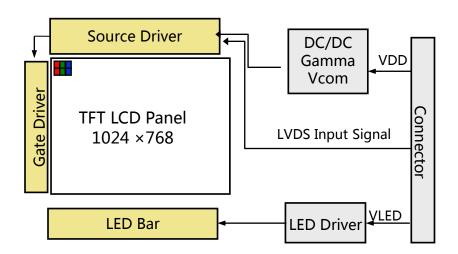


PRODUCT GROUP	REV	ISSUE DATE
TFT LCD PRODUCT	0	2019.02.18

#### 1.0 GENERAL DESCRIPTION

#### 1.1 Introduction

PT150X0M-N10 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 15.0 inch diagonally measured active area with XGA resolutions (1024 horizontal by 768 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.2M colors. The TFT-LCD panel used for this module is adapted for a low reflection and higher color type.



#### 1.2 Features

- LED back-light
- LED light bar replaceable
- LVDS interface
- RoHS Compliant

## 1.3 Application

- TFT-LCD Monitor
- Reliability Application

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	4 OF 25



REV

ISSUE DATE

TFT LCD PRODUCT

0

2019.02.18

## 1.4 General Specification

< Table 1. General Specifications >

Parameter	Specification	Unit	Remarks
Active area	304.128 (H) × 228.096(V)	mm	
Number of pixels	1024(H) × 768(V)	Pixels	
Pixel pitch	0.297(H) × 0.297 (V)	mm	
Pixel arrangement	RGB Vertical stripe		
Display colors	16.2M	Colors	6bit+FRC
Display mode	Normally White		
Dimensional outline	326.5 (H) $ imes$ 253.5(V) $ imes$ 9.7(D) typ.	mm	10max
Weight	850	g	typ
Surface treatment	Haze 25%, 3H		
Back-light	Edge side, 1-LED Lighting Bar Type		27*LED
LED life	50000	hr	

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	5 OF 25



PRODUCT GROUP	REV	ISSUE DATE
TFT LCD PRODUCT	0	2019.02.18

## 2.0 ABSOLUTE MAXIMUM RATINGS

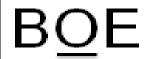
The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

< Table 2. LCD Module Electrical Specifications >

[Ta =25 ± 2 °C]

Parameter	Symbol	Min.	Max.	Unit	Remarks
Back-light Power Supply Voltage	$HV_{DDOUT}$	-0.3	24	V	
Back-light LED Reverse Voltage	$V_R$	-	40	V	
Operating Temperature	T <sub>OP</sub>	-20	70	$^{\circ}$	
Storage Temperature	T <sub>ST</sub>	-20	70	$^{\circ}$	

SPEC. NUMBER	SPEC TITLE	PAGE	
S801-5127	PT150X0M-N10 Product Specification	6 OF 25	



PRODUCT GROUP	REV	ISSUE DATE	
TET LCD PRODUCT	0	2019.02.18	

### 3.0 ELECTRICAL SPECIFICATIONS

#### 3.1 TFT LCD Module

< Table 3. LCD Module Electrical Specifications >

[Ta = 25  $\pm$  2 °C]

Parameter	Symbol	Values			Unit	Notes	
31 311 3331		Min	Тур	Max			
Power Supply Input Voltage	$V_{DD}$	3.0	3.3	3.6	V	Note 1	
Power Supply Current	I <sub>DD</sub>	-	520	700	mA	Note 1	
LED Driver Power Supply Voltage	H <sub>VDD</sub>	10.8	12	12.6	V		
LED Driver Power Supply Current	I <sub>HVDD</sub>	467	500	534	mA	Note 2	
LED Power Consumption	P <sub>LED</sub>	5.6	6.0	6.4	W		
Positive-going Input Threshold Voltage	V <sub>IT+</sub>	ı	1	+100	mV	Vcom = 1.2V	
Negative-going Input Threshold Voltage	V <sub>IT-</sub>	-100	-	1	mV	typ.	
Differential input common mode voltage	V <sub>com</sub>		1.2	-	V	V <sub>IH</sub> =100mV, V <sub>IL</sub> =-100mV	

- 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  $^{\circ}$ C Max value at Black Pattern
  - 2. Calculated value for reference  $I_{LED} \times V_{LED} \div 0.85 = P_{LED}$

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	7 OF 25



REV

0

ISSUE DATE

TFT LCD PRODUCT

2019.02.18

## 3.2 Back-light Unit

< Table 4. LED Driving guideline specifications >

Ta=25+/-2°C

	Parameter		Min.	Тур.	Max.	Unit	Remarks
LED Life-Tim	e	N/A	50,000	-	-	Hour	IF = 60mA Note 2
Power supply Back light	y voltage for	$V_{LED}$	26.1	27.9	29.7	V	
Power supply Back light	y Current for	I <sub>LED</sub>	1	180	-	mA	
Power supply	for Back light	$P_LED$	4.7	5.1	5.4	W	Note 1
EN Control	Backlight on	$V_{ENH}$	2	1	-	V	EN logic high v oltage
Level	Backlight off	$V_{ENL}$	1	1	0.6	V	EN logic low vol tage
PWM Control	PWM High Level	$V_{PML}$	2	-	-	V	
Level	PWM Low Level	$V_{PML}$	1	1	0.6	V	
PWM Contro	I Frequency	F <sub>PWM</sub>	0.12	-	1	KHz	
Duty Ratio		-	5	-	100	%	

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 under the condition of the ambient temperature of  $25^{\circ}$ C.

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	8 OF 25



PRODUCT GROUP	REV

TFT LCD PRODUCT 0 2019.02.18

ISSUE DATE

## 4.0 OPTICAL SPECIFICATION

#### 4.1 Overview

The test of view angle range shall be measured in a dark room (ambient luminance  $\leq$  1lux and temperature =  $25\pm2^{\circ}$ C) with the equipment of Luminance meter system (Goniometer system and TOPCON CS2000/CA310) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of  $\theta$  and  $\Phi$  equal to  $0^{\circ}$ . We refer to  $\theta\emptyset=0$  (= $\theta3$ ) as the 3 o'clock direction (the "right"),  $\theta$   $\emptyset=90$  (= $\theta12$ ) as the 12 o'clock direction ("upward"),  $\theta$   $\emptyset=180$  (= $\theta9$ ) as the 9 o'clock direction ("left") and  $\theta$   $\emptyset=270$ (= $\theta6$ ) as the 6 o'clock direction ("bottom"). While scanning  $\theta$  and/or  $\emptyset$ , the center of the measuring spot on the Display surface shall stay fixed. The luminance, color and uniformity (etc) should be tested by CS2000/CA310. The backlight should be operating for 10 minutes prior to measurement. VDD shall be 3.3  $\pm$  0.3V at 25°C. Optimum viewing angle direction is 6 'clock

<Table 5. Optical Specifications>

Parame	eter	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	Horizontal	$\Theta_3$		ı	80	ı	Deg.	
Viewing Angle		Θ <sub>9</sub>	CR > 10	ı	80	ı	Deg.	Note 1
range	Vertical	Θ <sub>12</sub>	CK > 10	ı	80	ı	Deg.	Note i
	vertical	$\Theta_6$		ı	80	ı	Deg.	
Luminance Co	ntrast ratio	CR	⊝ = 0°	400	700	ı		Note 2
Luminance of White	Center	Y <sub>w</sub>		280	350	1	cd/m <sup>2</sup>	Note 3
White Luminance uniformity	9 Points	ΔΥ9	⊖ = 0°	75	80	-	%	Note 4
Reproduction		Wx		Тур	0.313	Тур		
of color	White	Wy	Θ = 0°	-0.03	0.329	+0.03		Note 5
Response	e Time	T <sub>RT</sub>	Ta= 25° C Θ = 0°	-	8	12	ms	Note 6
Cross	Гalk	СТ	Θ = 0°	-	-	2.0	%	Note 7

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	9 OF 25

B2006-5006-O (3/3) A4(210 X 297)



# PRODUCT GROUPREVISSUE DATETFT LCD PRODUCT02019.02.18

- 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 1).
  - 2. Contrast measurements shall be made at viewing angle of  $\Theta$ = 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 1) Luminance Contrast Ratio (CR) is defined mathematically.

- 3. Luminance of white is defined as luminance values of center of 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 luminance is measured by CS2000/CA310 when the LED current is set at 60mA.
- 4. The White luminance uniformity on LCD surface is then expressed as :  $\Delta Y = Minimum Luminance of 9 points / Maximum Luminance of 9 points (see FIGURE 2).$
- 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.
- The electro-optical response time measurements shall be made as FIGURE
   The times needed for the luminance to change from 10% to 90% is Tr, and 90% to 10% is Tf.
- 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 4).

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	10 OF 25



PRODUCT GROUP
---------------

REV

**ISSUE DATE** 

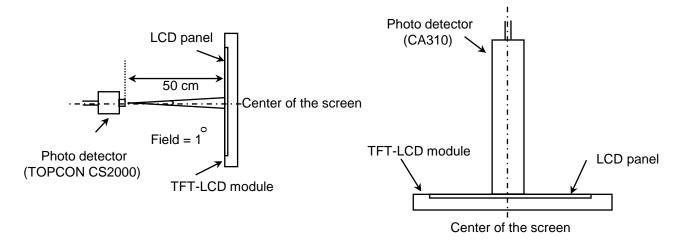
TFT LCD PRODUCT

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2019.02.18

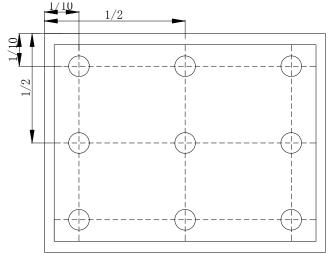
### 4.2 Optical measurements

Figure 1. Measurement Set Up



View angel range, uniformity, etc. measurement setup Flicker, measurement setup

Figure 2. White Luminance and Uniformity Measurement Locations (9 points)



Luminance of white is defined as luminance values of center of 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 :  $\Delta Y9 = Minimum Luminance of 9 points / Maximum Luminance of 9 points (see FIGURE 2).$ 

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	11 OF 25



REV

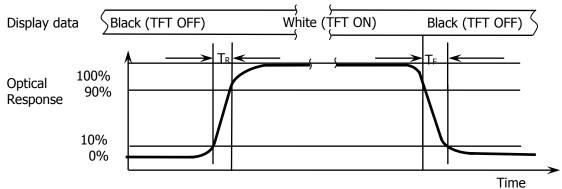
ISSUE DATE

TFT LCD PRODUCT

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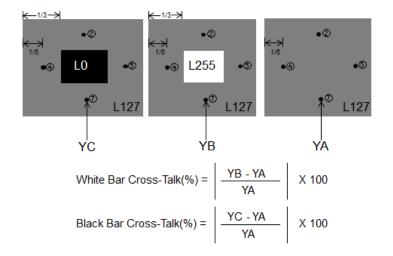
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The electro-optical response time measurements shall be made as shown in FIGURE 3. The times needed for the luminance to change from 10% to 90% is T r and 90% to 10% is Tf.

**Figure 4. Cross Modulation Test Description** 



Where:

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

YB = Subsequent luminance of measured area (cd/m2) @White Bar

YC = Subsequent luminance of measured area (cd/m2) @Black Bar

The location measured will be exactly the same in both patterns

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	12 OF 25



REV

**ISSUE DATE** 

TFT LCD PRODUCT

0

2019.02.18

## 5.0 INTERFACE CONNECTION.

#### **5.1 Electrical Interface Connection**

The electronics interface connector is DF14H-20P-1.25H.

The LED connector is 3808K-F05N-03L

The connector interface pin assignments are listed in Table 6 and 7.

<Table 6. Pin Assignments for the Interface Connector>

Terminal	Symbol	Functions
Pin No.	Symbol	Description
1	VDD	Power Supply,3.3V(typical)
2	VDD	Power Supply,3.3V(typical)
3	VSS	Ground
4	NC	No Connection
5	RIN0-	-LVDS differential data input
6	RIN0+	+LVDS differential data input
7	VSS	Ground
8	RIN1-	-LVDS differential data input
9	RIN1+	+LVDS differential data input
10	VSS	Ground
11	RIN2-	-LVDS differential data input
12	RIN2+	+LVDS differential data input
13	VSS	Ground
14	CLKIN-	-LVDS differential clock input
15	CLKIN+	+LVDS differential clock input
16	VSS	Ground
17	RIN3-	-LVDS differential data input
18	RIN3+	+LVDS differential data input
19	VSS	Ground
		LVDS 6/8 bit select function control
20	SEL 6/8	High -> 6bit input mode
		Low -> 8bit input mode

### <Table 7. Pin Assignments for the LED Connector>

Terminal	Symbol	Functions
Pin No.	Symbol	Description
1	NC	No Connection
2	Dimming	PWM Dimming
3	Enable	5V-On / 0V-Off
4	GND	Ground
5	VCC	12V

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	13 OF 25



<b>PRODUCT</b>	<b>GROUP</b>
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REV

ISSUE DATE

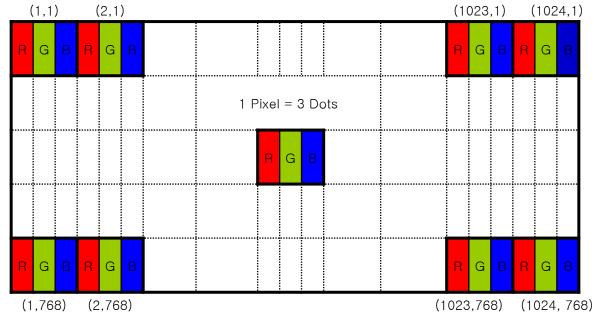
TFT LCD PRODUCT

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2019.02.18

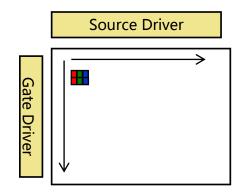
## **5.2 Data Input Format**

Figure 5. Pixel Format



Display Position of Input Data (V-H)

Figure 6. Scan direction



SPEC. NUMBER
\$801-5127

PAGE 14 OF 25



REV

ISSUE DATE

TFT LCD PRODUCT

0

2019.02.18

## **6.0 SIGNAL TIMING SPECIFICATION**

## 6.1 The PT150X0M-N10 is operated by the DE only.

December	Symbol	Value			I India
Parameter		Min.	Тур.	Max.	Unit
DCLK Frequency	fclk	52	58	71	MHz
Horizontal display area	thd		1024		pixel
HSYNC period time	th	1114	1200	1400	pixel
HSYNC blanking	thb+ thfp	90	320	376	pixel
Vertical display area	Tvd		768		Н
Frequency	fV	48	60	65	Hz
VSYNC period time	Tv	778	806	845	н
VSYNC blanking	Tvb+ Tvfp	10	38	77	Н

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	15 OF 25



REV

ISSUE DATE

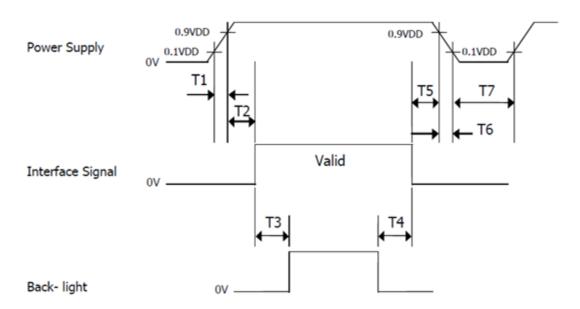
TFT LCD PRODUCT

0

2019.02.18

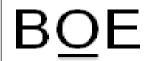
## 7.0 POWER SEQUENCE

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



Parameter		I Inita		
Farameter	Min	Тур	Max	Units
T1	0	-	10	ms
Т2	0	-	50	ms
Т3	200	-	-	ms
T4	500	-	-	ms
T5	0	-	50	ms
Т6	0	-	10	ms
Т7	500	-	-	ms

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	16 OF 25



PRODUCT	GROUP
---------	-------

REV

ISSUE DATE

TFT LCD PRODUCT

0

2019.02.18

## **8.0 MECHANICAL CHARACTERISTICS**

## 8.1 Dimensional Requirements

## <Table 8. Dimensional Parameters>

Parameter	Specification	Unit
Active Area	304.128 (H) $ imes$ 228.096(V)	mm
Number of pixels	1024(H) X768 (V) (1 pixel = R + G + B dots)	
Pixel pitch	0.297(H)  imes 0.297 (V)	mm
Pixel arrangement	RGB Vertical stripe	
Display colors	16.2M (6bit+FRC)	colors
Display mode	Normally White	
Dimensional outline	326.5 (H) $ imes$ 253.5(V) $ imes$ 9.7(D) (Typ.)	10mm (Max)
Weight	850±30	gram
Back-light	Edge side, 1-LED Lighting Bar Type	
LED life	50,000 (Min.)	hr

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	17 OF 25

В	O	E

REV

0

ISSUE DATE

TFT LCD PRODUCT

2019.02.18

## 9.0 RELIABILITY TEST

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

<Table 9. Reliability test>

		14510 0	. Rondomity toots		
Item		Test condit	ion		
Hig	High temperature storage		70 ℃, 240 hrs		
Lo	w tempera	ature storage		-20℃, 240 hrs	
High temperature & high humidity operation		50 ℃, 80%RH, 240hrs			
High	n tempera	ture operatio	n	70 ℃, 240h	nrs
Low	Low temperature operation		า	-20°C, 240hrs	
			Frequency	10/ 200/10 Hz,Sine X/Y/Z Direction	
Vibration test		Gravity / AMP	1.5 G		
		Period	±X, ±Y, ±Z 30 min		
			Gravity	50G	
Shock test		Pulse width	11msec, Half-sine wave		
			Direction	±X, ±Y, ±Z	
	On/O	ff test		On/5sec, Off/5 3,000 cycle	
ESD		± 15KV, 150pF(330 ) 1sec points, 1 times/ point			
			Contact	± 8KV, 150pF(330 ) points, 1 times	
SPEC. NUMBER S801-5127	SPEC T			PAGE 18 OF 25	



PRODUCT GROUP	REV	ISSUE DATE
TFT LCD PRODUCT	0	2019.02.18

#### 10.0 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.

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	19 OF 25



REV

ISSUE DATE

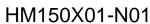
TFT LCD PRODUCT

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2019.02.18

## **11.0 LABEL**

(1) Product label









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Type designation

2

No 1. Control Number

No 2. Rank / Grade

No 3. Line classification (BOE OT:A/BC)

No 4. Year (10: 2010, 11: 2011, ...)

No 5. Month (1, 2, 3, ..., 9, X, Y, Z)

No 6. Product Identification (FG)

No 7. Serial Number

SPEC. NUMBER S801-5127 SPEC TITLE

PT150X0M-N10 Product Specification

PAGE 20 OF 25



**REV** 

ISSUE DATE

TFT LCD PRODUCT

0

2019.02.18

### (2) Box label

Label Size: 110 mm (L) × 56 mm (W)

Contents

Model: **PT150X0M-N10**Q'ty: Module Q'ty in one box

Date: Packing Date
Internal use of Product



① MODEL: FG-CODE(The first 12 numbers)

2 QTY: Quantum

③ SERIAL NO : Box ID

④ DATE: Box Packing date

⑤ Box ID Bar-Code

6 FG-CODE(The last 4 numbers)

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	21 OF 25



REV

ISSUE DATE

TFT LCD PRODUCT

0

2019.02.18

## (3) Pallet label

Label Size: 110 mm (L) × 56 mm (W)

Contents

Model: PT150X0M-N10 Q`ty: Module Q`ty in one box

Date: Packing Date

Pallet ID

MODEL: PT150X0M-N10 1

QTY : 180 2

PACK DATE : 2019/2/20 12:00 3

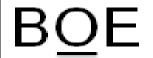
PALLET : 20192AM00001 4



18P0A0 (6)

- 1.FG-CODE
- 2.Pallet Quantum
- 3.Pallet Packing date
- 4.Pallte ID
- 5.Bar-Code
- 6.FG-CODE(The last 4 numbers)+Product grade

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	22 OF 25



REV

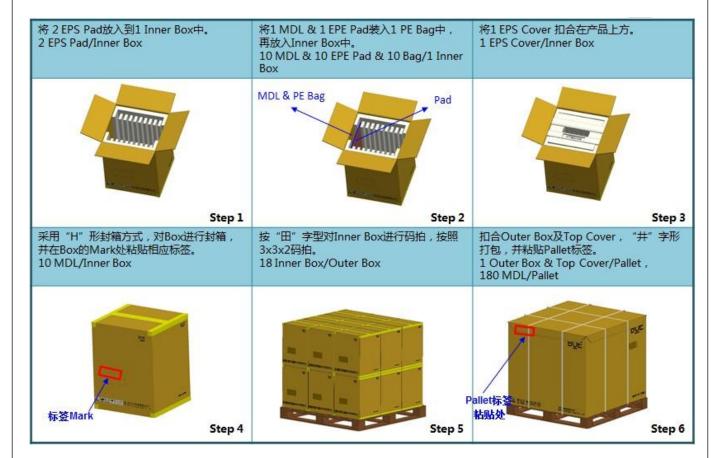
**ISSUE DATE** 

TFT LCD PRODUCT

0

2019.02.18

#### 12.0 PACKING INFORMATION



## **Packing Note:**

- Box Dimension : 365mm (L)  $\times 340$ mm (W)  $\times 450$ mm (H)
- Package Quantity: 10pcs MDL/Box, 18pcs Box/Pallet, 180pcs MDL/Pallet,
- Package Weight: 10kg/Box, 202kg/Pallet.

SPEC. NUMBER	SPEC TITLE	PAGE
S801-5127	PT150X0M-N10 Product Specification	23 OF 25



**REV** 

**ISSUE DATE** 

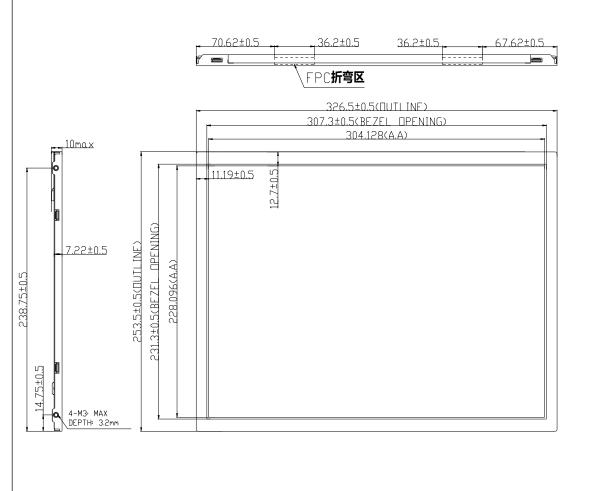
TFT LCD PRODUCT

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2019.02.18

## 13.0 MECHANICAL OUTLINE DIMENSION

Figure 5. TFT-LCD Module Outline Dimension (Front View)





SPEC. NUMBER S801-5127

**SPEC TITLE** 

PT150X0M-N10 Product Specification

**PAGE** 24 OF 25

A4(210 X 297)



REV

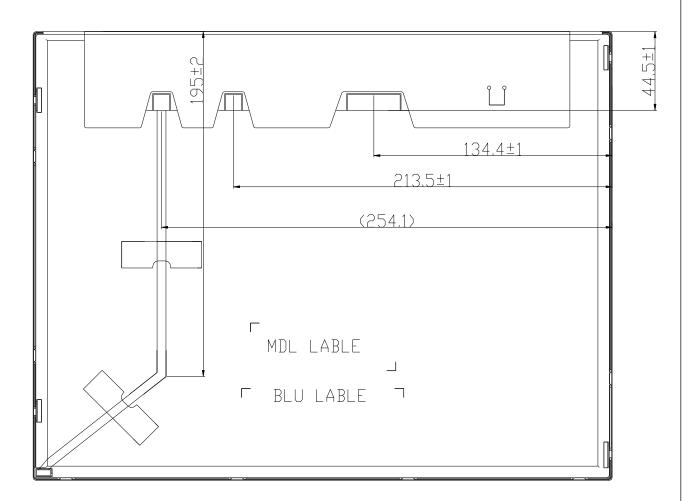
ISSUE DATE

TFT LCD PRODUCT

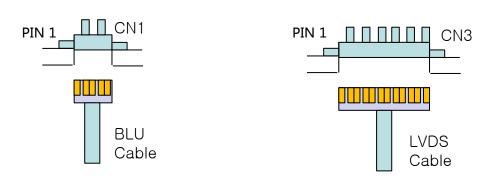
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Figure 6. TFT-LCD Module Outline Dimensions (Rear view)



APP.: LVDS &BLU Cable Lead Direction



SPEC. NUMBER
S801-5127

PAGE 25 OF 25

A4(210 X 297)