

Specification

Product Model: PT80M03-HB101-24B

Driver Board's Version: 1.00

LCD Screen's Model: HB101- 24B

USER			MANUFACTURER		
Quality	Project	Approved By	Prepared By	Checked By	Approved By

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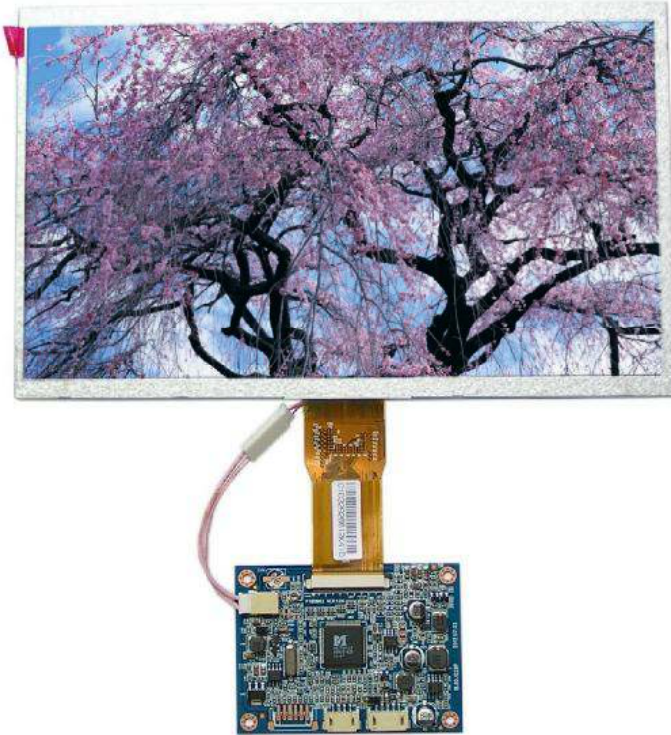
1. Profile

This is technical specification applies to PT80M03 VER:1.00–HB101-24B TFT LCD Color Dight Module. This procuts is composed of a PT80M03 VER:1.00 drive board and HB101-24B Panel. This LCD Module support OSD Menu, CVBS and VGA signal input, PAL and NTSC formats which two formats can be automatic identified. All the fuctions can be contorlled by the keyboard. This LCD Module is mainly used for video door phone and other display equipments.

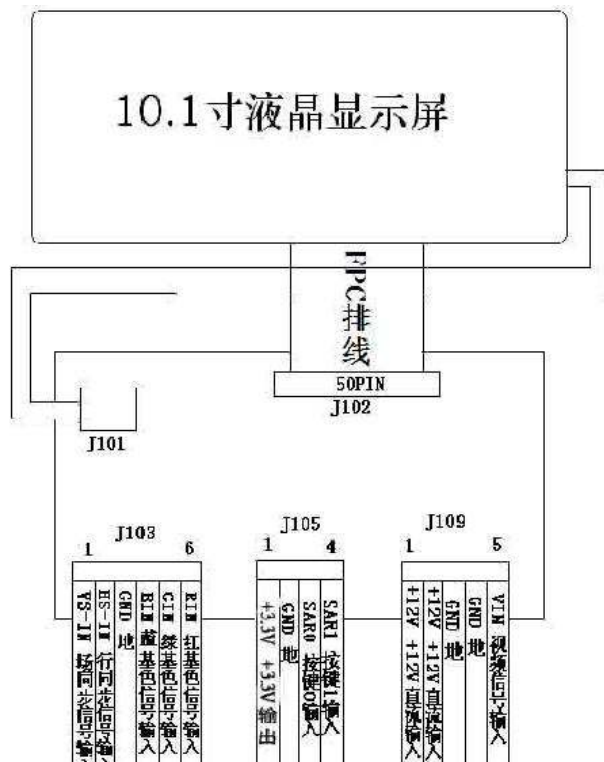
2. Main Parameter

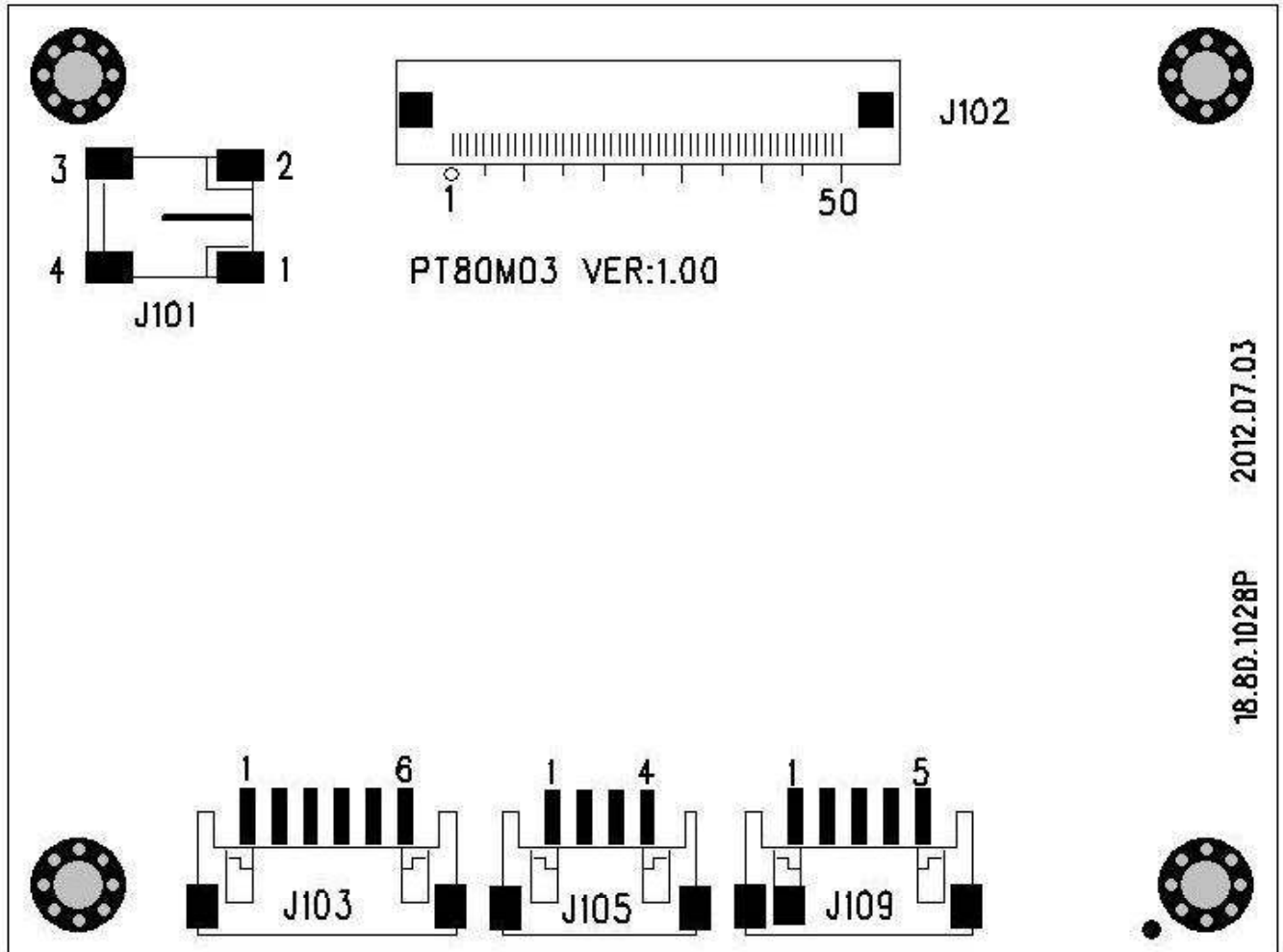
No.	Item	Description	Note
1	Screen Size	10.1 inch	
2	Contrast Ratio	16:9	
3	Backlight	LED	
4	Brightness	200±20 cd/m ²	
5	Resolution	1024 (H) ×3(RGB)×600 (V) mm	
6	Viewing Angle (U/D/R/L)	(50/70/70/70)	
7	Outline Dimension	235.0 (W) ×143.0 (H) ×5.2 (D) mm	
8	Active Area	222.72 (W) ×125.28 (H) mm	
9	Drive Board Size	80.0 (W) ×60.0 (H) ×6.8 (D) mm	
10	Working Voltage (Power supply ripple is less than 0.3vp-p)	Min: DC9=V Standard: DC=12V Max: DC= 15V	
11	Working Current (DC= 12V)	DC280mA±30mA	
12	Power Consumption	3.36W (TYP)	
13	Start time	2.5±0.5 Sec	
14	Operating Temperature	0°C~60°C	
15	Storage Temperature	-20°C~70°C	
16	Relative Humidity	5~95%RH	

3. Product Picture



4. Wiring Diagram





5. Connector Definition of Driver Board

5.1: J109

Pin	Symbol	I/O	Function	Remark
1	+12N	I	DC 12V Input	
2	+12N	I	DC 12V Input	
3	GND	-	GND	
4	GND	-	GND	
5	VIN	I	Video Signal Input	

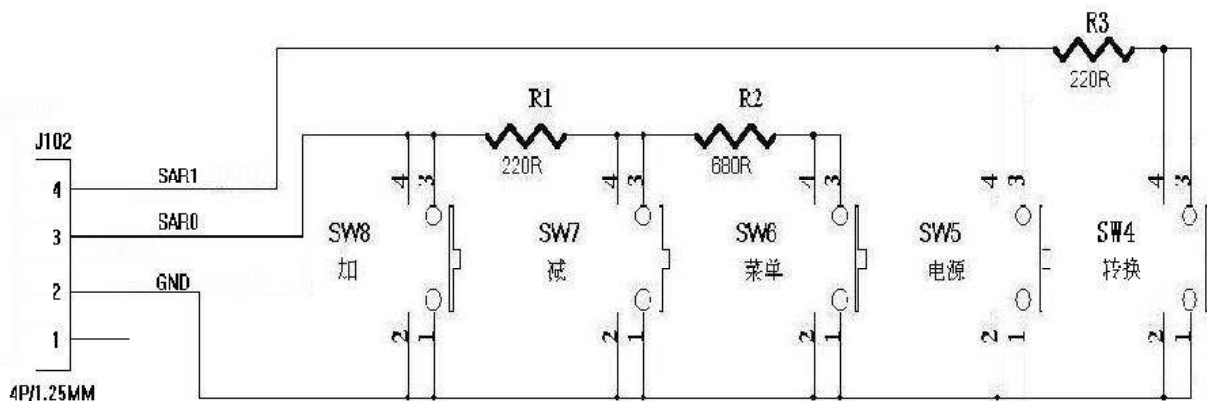
5.2: J103

Pin	Symbol	I/O	Function	Remark
1	VS-IN	I	Vertical Sync input	
2	HS-IN	I	Horizontal Sync input	
3	GND	-	GND	
4	BIN	I	Blue primary input	
5	GIN	I	Green primary input	
6	RIN	I	Red primary input	

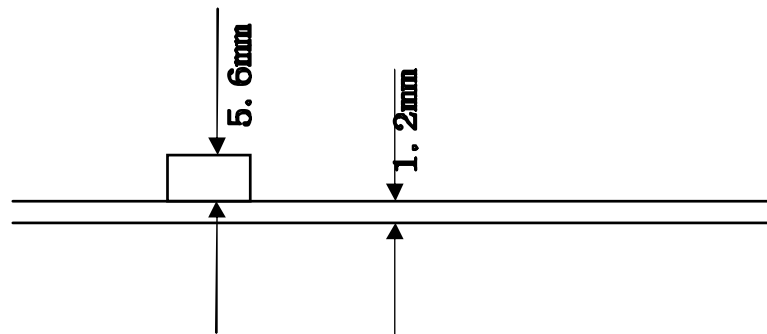
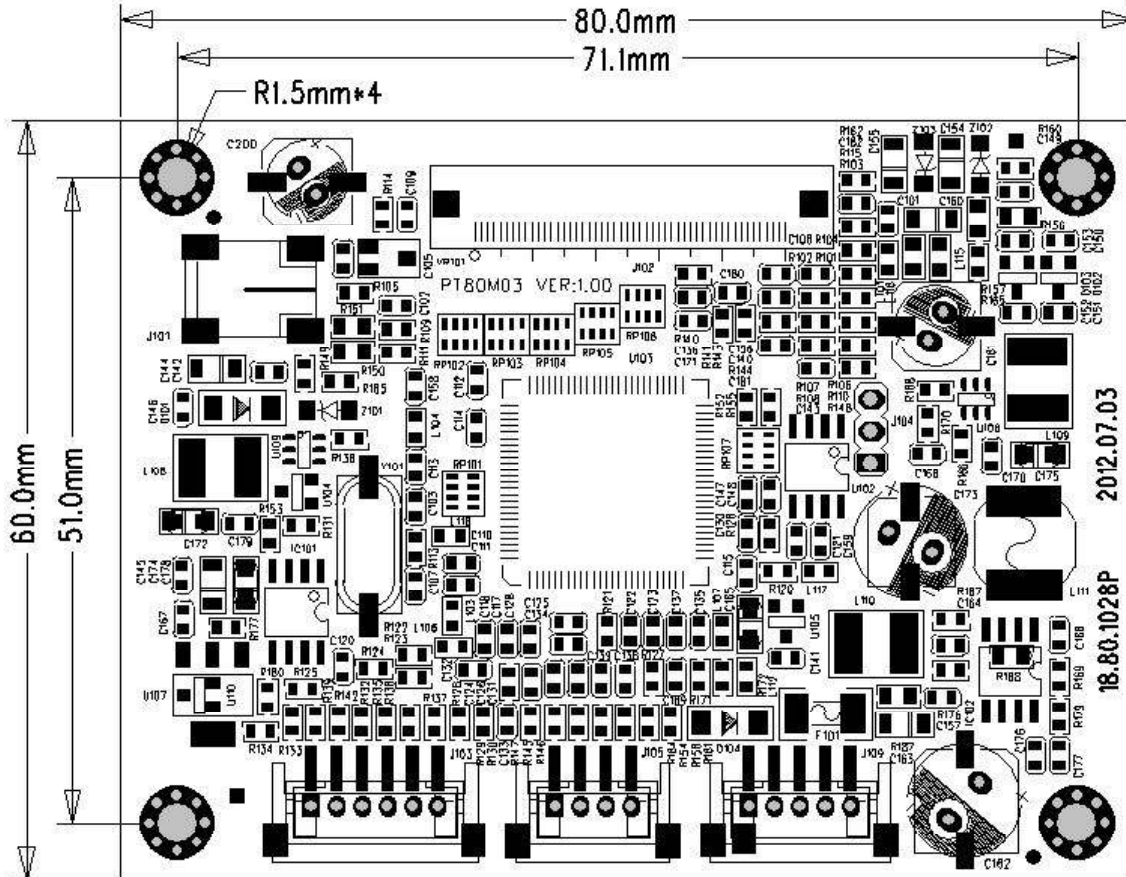
5.3: J105

Pin	Symbol	I/O	Function	Remark
1	+3.3V	O	+3.3V Output	
2	GND	-	GND	
3	SAR0	I	Key-press 0 Input	
4	SAR1	I	Key-press 1 Input	

Keyboard Wiring Diagram



6.2 PCB Dimension: 80.0(W) ×60.0 (H) ×6.8(D) mm



7. Product Labeling

HB101- 24B

8. Packing & Shipping

1. Package

TBD

2. Shipping & Storage

Avoid to crash and drench.

Do not store the module in surroundings containing organic solvent, chemical corrosive gas, high humidity.

9. Caution

1. The TFT products were had precision testing and ageing test with the instrumentation before transport, so as it no need to adjust again.
2. Please correctly connect power and video signal before you adjust, should be on/off power and video signal to check the image's effect.
3. This Module is electronic product, please notice prevent static.
4. HB101-24B is made of glass. Place carefully, broken for fear.
5. Don't touch keyboard's pin feet when you use the keyboard control the module. Because the person have resistance, you will affect keyboard's function when touch it.

10. 10.1 "TFT- LCD PANEL Inspection standard

Aim: Establish the standard of PANLE for inspecting material & progress and for clients' inspection.

Scope: Apply to 10.1"TFT LCD Panel

Content:

10.1. Inspection standard and method

10.1.1. The method and determinant of inspecting the Scratch of panel of LCD:

10.1.1.1. Inspect vertically (or at 45°angle from left/right) under the light tube (the power is 20 W) in the distance of 30cm to the panel. If there is no scratch, it is "OK". Otherwise "NG".

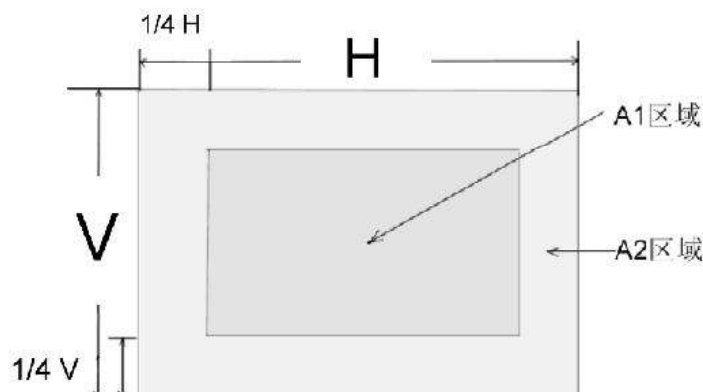
10.1.2. The method and determinative for black & white & color spots for the Panel of LCD:

10.1.2.1 Inspection method

10.1.2.1.1. Black Dot: under status of denote light, set the MASK of black spot inspection near the black spot then compare the big and small by eyes.

10.1.2.1.2. White Dot: White & Color spots: under status of denote light, set the Mask of black spot inspection on the white spot (or color spot) then inspect them by eyes if it can hide.

10.1.2.2 Division of LCD Panel



Remark: A1 Area: The center of the available area for the picture

A2 Area: The edge of the available area for the picture (around the central area)

10.1.3. The inspection standard for the spots:

Spot Diameter (mm)		Allowed Area	
		A1 Area	A2 Area
Black Spot	$d \leq 0.15$	Irrespective	Irrespective
	$0.15 < d \leq 0.3$	4	4
	$0.3 < d \leq 0.5$	2	3
	$0.5 < d < 0.8$	0	2
Bright Spot or Color Spot	$d \leq 0.15$	Irrespective	Irrespective
	$0.15 < d \leq 0.3$	3	3
	$0.3 < d \leq 0.5$	1	2
	$0.5 < d < 0.8$	0	1

- Note:**
1. Size: Average Diameter = (Max. Diameter + Min. Diameter) / 2
 2. Using information above as a standard in order to judge while the spot is are dense.
 3. Black & White spot: To judge the obvious spots through the change of voltage by comparison.
 4. Total quantity of Black & white & color spot: $A1 + A2 \leq 4$.