

Specification

Product Model: PT80M03-EJ080NA-05B

Driver Board's Version: VER:1.00

LCD Screen's Model: EJ080NA-05B

USER			MANUFACTURER		
QA	Project	Approved by	Prepared by	Checked by	Approved by

Catalogue

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Version

Date	Version	Content
2012-03-31	RD001	The First Version
2012-07-03	VER:1.00	The Second Version

1. Profile:

PT80M03 VER:1.00-EJ080NA-05B Color TFT LCD Module is composed by PT80M03 Driver Board Ver:1.00 and 8" Digital Panel(EJ080NA-05A). This driver board can with VIDEO、VGA signal input, it adopts the backlight of LED, Two system formats, PAL and NTSC (auto switch). Key-press adjustment, OSD menu display. It can use for video door phone, or other electronic display equipment.

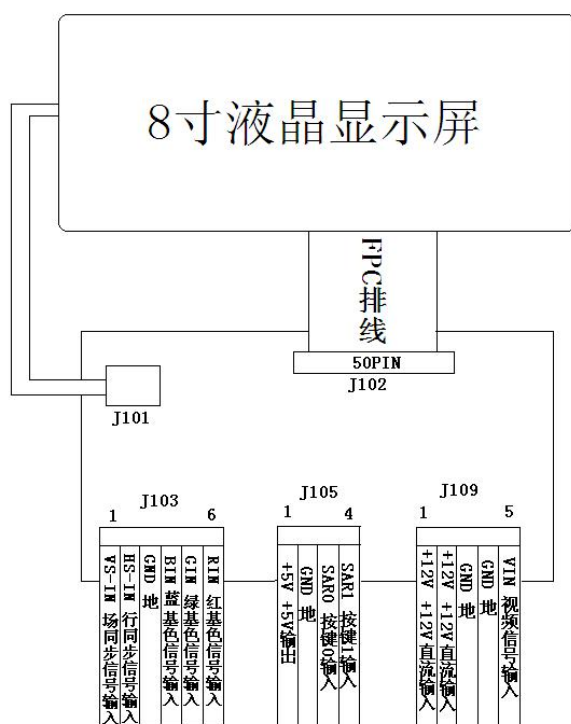
2. General Parameters:

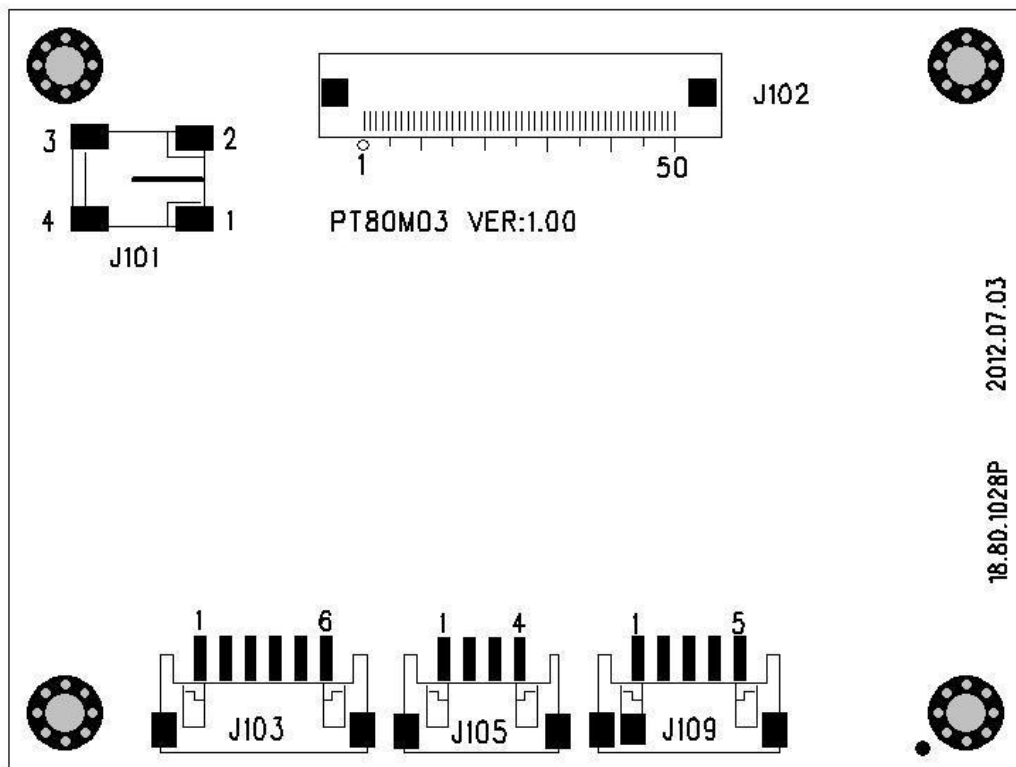
No.	Item	Description	Remark
1	Size	8.0 inch	
2	Display ratio	4:3	
3	Backlight	LED	
4	Brightness	250 ±50cd/m ²	
5	Resolution	800x3(RGB)×600	
6	View angle (up,down,left,right)	(50/70/70/70)	
7	Overall dimension of lcd	183.0(W)x 141.0(H)x 5.6(D)	
8	Effective display area	162.0 (H) x 121.5 (V)	
9	Driving board dimension	80.0 (W) x 60.0 (H) ×6.8 (D)	
10	VGA resolution	800 x 600	
11	Working Voltage	Min: DC9V; Standard: DC12V; Max: DC15V;	
12	Working current (DC 12V)	DC290mA±20mA	
13	Working consumption	3.48W (TYP)	
14	Start time	2.5s	
15	Working temperature	0℃~60℃	
16	Storage temperature	-20℃~70℃	
17	Environment Humidity	5~95%RH	

3. Product picture:



4. Connection Diagrams:





5. Connection Definition of Driver Board:

5.1 J109 connector definition:

Pin No.	Symbol	Input/Output	Description	Remark
1	+12N	I	DC12V input	
2	+12N	I	DC12V input	
3	GND	—	Ground	
4	GND	—	Ground	
5	VIN	I	Video signal input	

5.2 J103 connector definition:

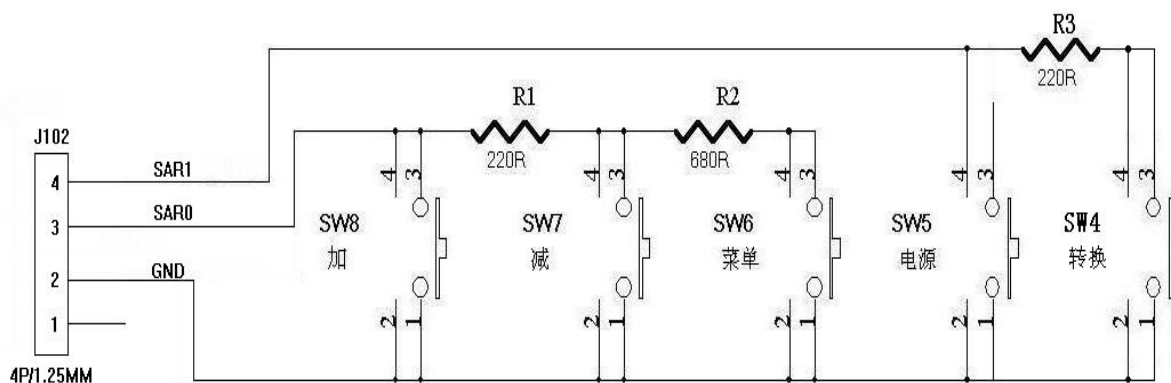
Pin No.	Symbol	Input/Output	Description	Remark
1	VS-IN	I	Field sync signal input	
2	HS-IN	I	Line sync signal input	
3	GND	-	Ground	

4	BIN	I	Red primary color signal	
5	GIN	I	Red primary color signal	
6	RIN	I	Red primary color signal	

5.3 J105 Connector Definition:

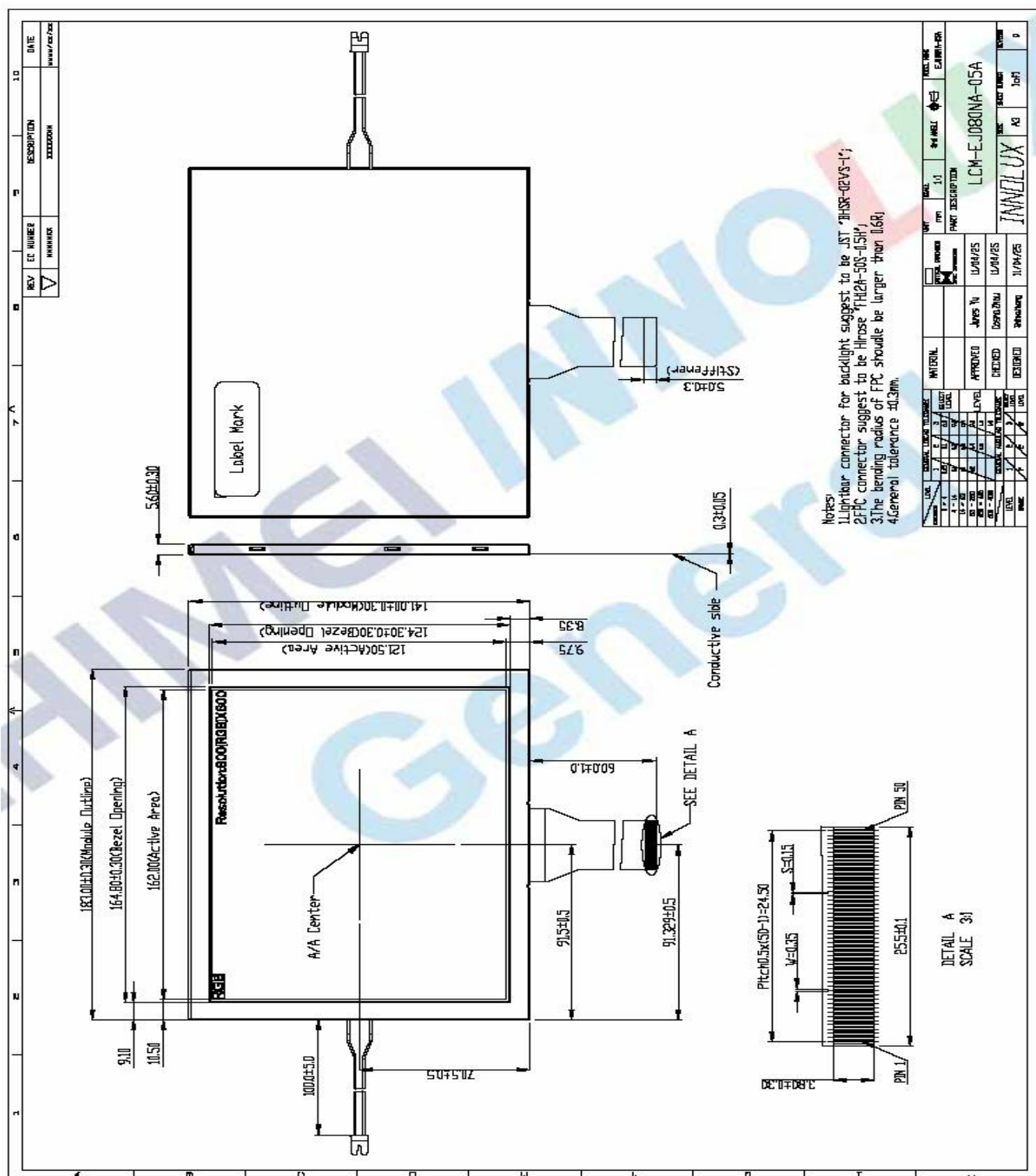
Pin No.	Symbol	I/O	Description	Remarks
1	+5V	0	+5V output	
2	GND	-	Ground	
3	SAR0	I	Key-press 0 input	
4	SAR1	I	Key-press 1 input	

Key-press board connection diagram:

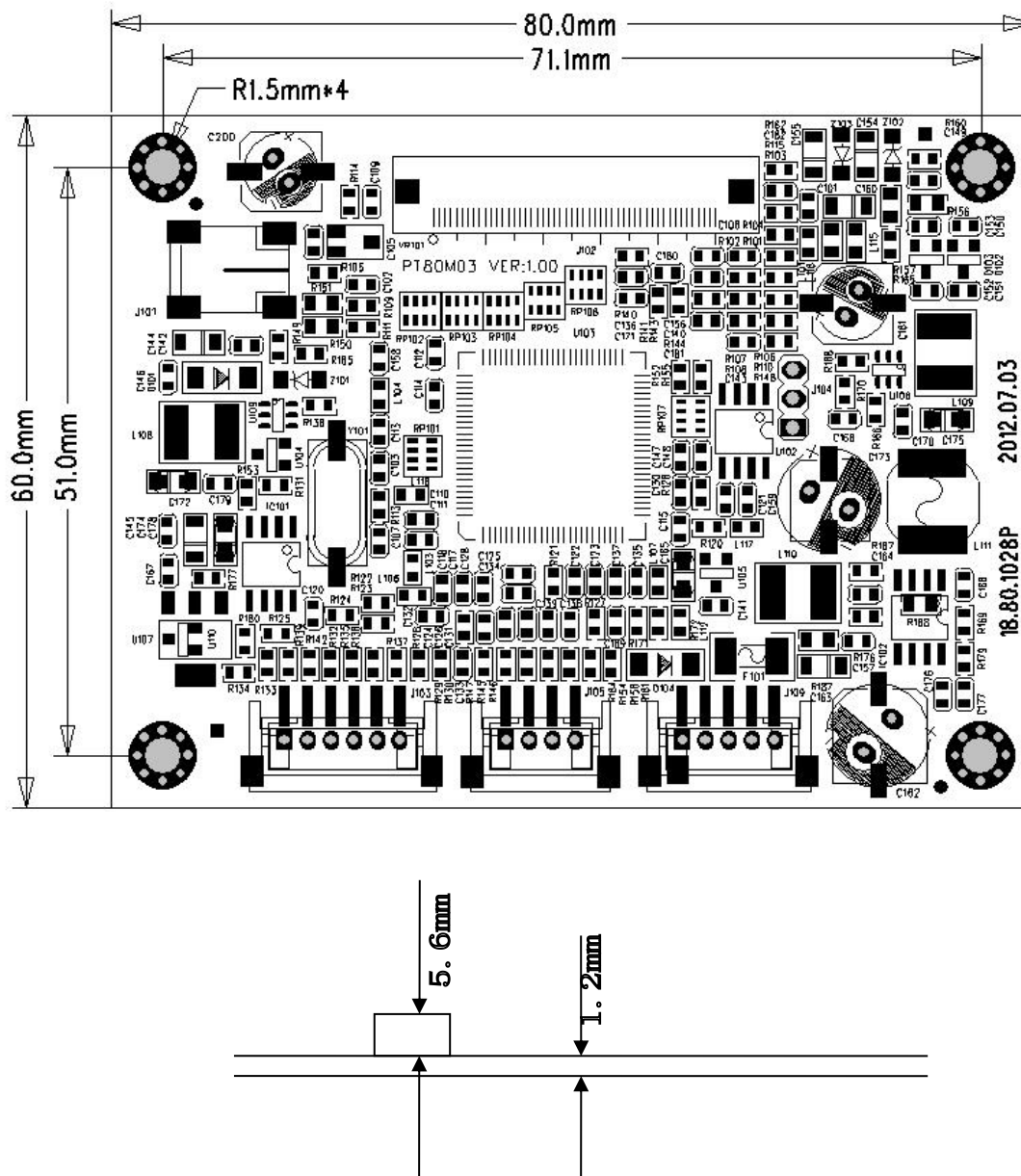


6. Structure Diagram:

6.1 TFT LCD panel:



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



7. Product label:

EJ080NA-05A

8. Packing、Transport and Storage:

1. Packing

TBD

2. Transport and store

Don't hit and rain when transportation ; Don't storage with chemic goods and wet goods together.

9. Caution:

1. TFT have used by special instrument to adjust precision and aging 、 test before leave factory, no need adjust again.
2. Please correctly connect power、 video signal before you adjust, should be on/off power and video signal to check the image's effect.
3. Due to this product is electronic product, please notice prevent static.
4. 8"TFT-LCD Panel is a glasswork, place carefully ,broken for fear.
5. The connection is "FPC", which connect 8"TFT-LCD panel with PCB, Please operate it carefully, in order to keep it well.
6. Don't touch key-press's pin feet when you adjust key-press, due to person have resistance, you will effect key-press's function when touch it.

10. 8"TFT- LCD PANEL Inspection Standard:

Aim: Make the panel standards to material purchasing, process inspecting and customer checking.

Ranges: 8"TFT LCD

10.1 Determinant standard and method:

10.1.1. The method and determinant of inspecting the nick 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 nick, it determines "OK", otherwise "NG".

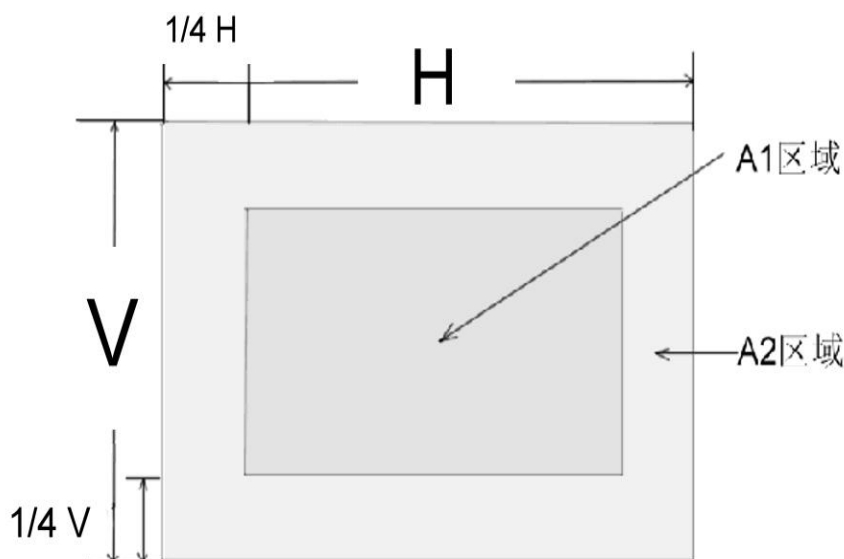
10.1.2. The method and determinative for black & white & color spots for the Panel of LCD:

10.1.2.1. Inspecting method

10.1.2.1.1. Black spots: under the situation of "turn on the 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 & Color spots: under situation of "turn on the light", set the Mask of black spot inspection on the white spot (or color spot) then observe them by eyes if it can hide.

10.1.2.2. Division of LCD Panel



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

Area of A2: The edge of the available area for the picture

10.1.3 Determinant Choice:

Spot Diameter (mm)		Allowed Area	
		A1	A2
Black Spot	$d \leq 0.15$	Negate	Negate
	$0.15 < d \leq 0.25$	4	4
	$0.25 < d \leq 0.3$	2	3
	$0.5 < d < 0.8$	0	1
White or color spot	$d \leq 0.15$	Negate	Negate
	$0.15 < d \leq 0.25$	3	3
	$0.25 < d \leq 0.3$	1	2
	$0.5 < d < 0.8$	0	1

- Remark:
1. Size: Average Diameter= (Max. Diameter + Min. Diameter) /2
 2. Using information above as a standard in order to judge while the e spots 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: $A1+A2 \leq 4$.