 Good Display	LCD MODULE SPECIFICATIONS	SPEC NO	
	GD102M03-GTT104SDH01	REV NO	1.0

Good Display Specifications

Type: Standard
Model No. GD102M03-GTT104SDH01
Description: 10.4 inch TFT LCD
VGA、VIDEO signal input

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Issue Date: 10/10/2010



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Version

Date	Version	Content
15 th ,Feb,2011	RD001	The first version
5 th ,May,2011	VER:1.00	The 2rd version (add backlight output socket)



1. General description:

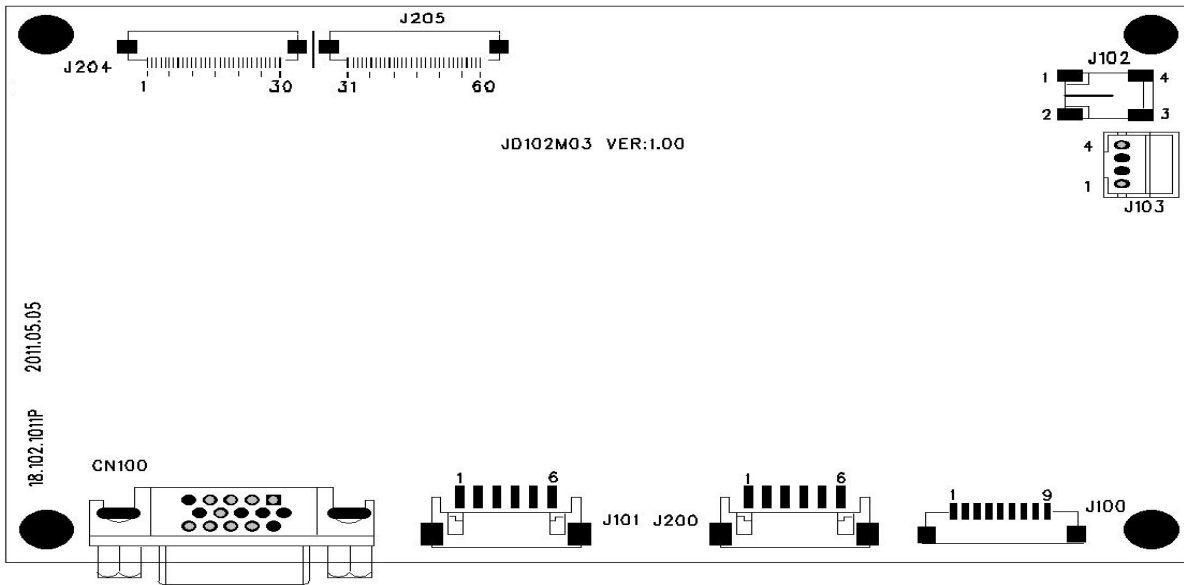
GD102M03-GTT104SDH01 VER:1.00 color TFT LCD module is composed by JD102M03 VER:1.00 driver board and GTT104SDH01 V.9 LCD screen , It provides users with CVBS、VGA、SVIDEO signals input and automatic identifying and converting of NTSC/PAL systems, built-in OSD (on-screen display) and Infrared Remote Control function. and the OSD menu offers adjustment of brightness, contrast and color etc, and full functions can be controlled by the Remote Control device included. The power control IC is designed for better reliability..

2. Main parameter:

No.	Item	Description	Remarks
1	LCD display size	10.4 inch	
2	LCD aspect ratio	4:3	
3	backlight	LED	
4	Brightness	400 cd/m ²	
5	Resolution	800×3 (RGB)×600	
6	View angle(U、D、L、R)	(45/65/65/65)	
7	LCD screen dimension (mm)	236.00 (W) 176.90 (H) ×5.60 (D)	
8	Active Area(mm)	211.20 × 158.40	
9	Driver board dimension(w/o VGA)	128.8 (W)×85.4 (H) ×7.8 (D)	
10	Driver board dimension (W/ VGA)	128.8 (W)×85.4 (H) ×14.7 (D)	
11	VGA crossover frequency	800×600	
12	Working voltage (power ripple <0.3VP-P)	Min: DC9V; S: DC12V; Max: DC18V;	
13	Working current (DC 12V)	DC320mA±30mA	
14	Working current (DC 12V) w/ audio	DC540mA±30mA	
15	Power consume	3.84W (TYP)	
16	Start time	2.5S	
17	Operation temperature	-20℃~70℃	
18	Storage temperature	-20℃~70℃	
19	Relative humidity	5~95%RH	



5. Connector definition of driver board:



5.1 J101:

Pin No.	Symbol	I/O	Description	Remarks
1	+12VIN	I	DC power input	
2	GND	-	Ground	
3	VIN	I	Video signal input	
4	YIN	I	Y signal input	
5	CIN	I	C signal input	
6	GND	-	Ground	

5.2 J100:

Pin No.	Symbol	I/O	Description	Remarks
1	GND	-	Ground	
2	VGAL	I	VGA Audio left channel input	
3	VGAR	I	VGA Audio right channel input	
4	GND	-	Ground	
5	VL	I	Video signal audio L-channel input	
6	VR	I	Video signal audio R-channel input	
7	GND	-	Ground	



8	Y/CL	I	Y/C signal audio L-channel input	
9	Y/CR	I	Y/C signal audio R-channel input	

5. 3 J103:

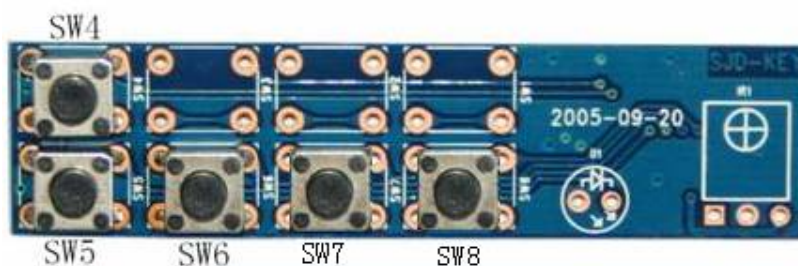
Pin No.	Symbol	I/O	Description	Remarks
1	R-OUT	I	Right channel audio output	
2	GND	-	Ground	
3	GND	-	Ground	
4	L-OUT		Left channel audio output	

5. 4 J106:

Pin No.	Symbol	I/O	Description	Remarks
1	ON/OFF	I	Power switch	
2	GND	-	Ground	
3	12V OUT	-	+12V power output	

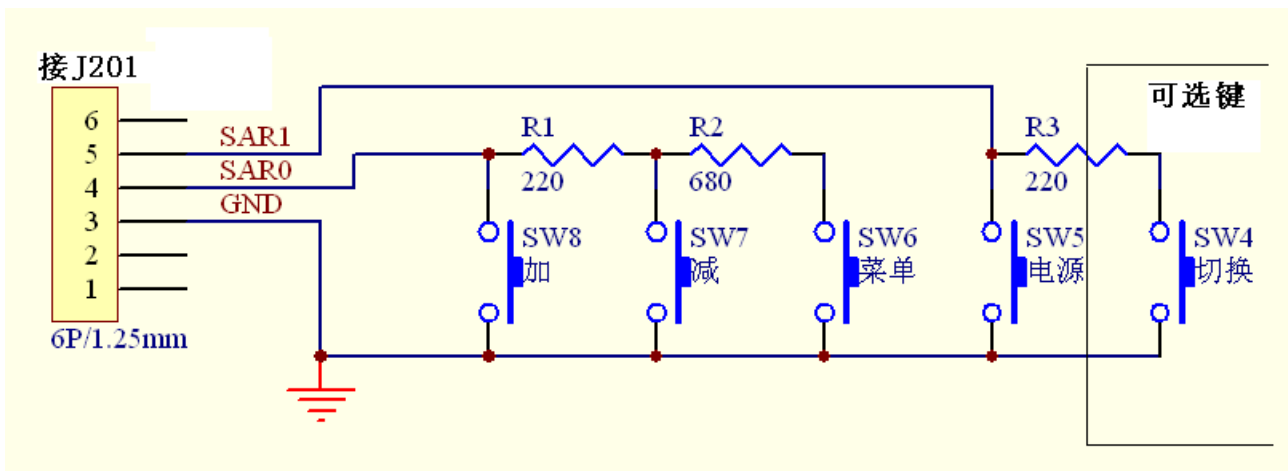
5. 5 J200:

Pin No.	Symbol	I/O	Description	Remarks
1	+5V	I	+5V key output	
2	IR-IN	I	Remote input	
3	GND	-	Ground	
4	SAR0	I	Pushbutton 0 input	
5	SAR1	I	Pushbutton 1 input	
6	SAR2	I	Pushbutton 2 input	

Pushbutton board:



Pushbutton wiring diagram:



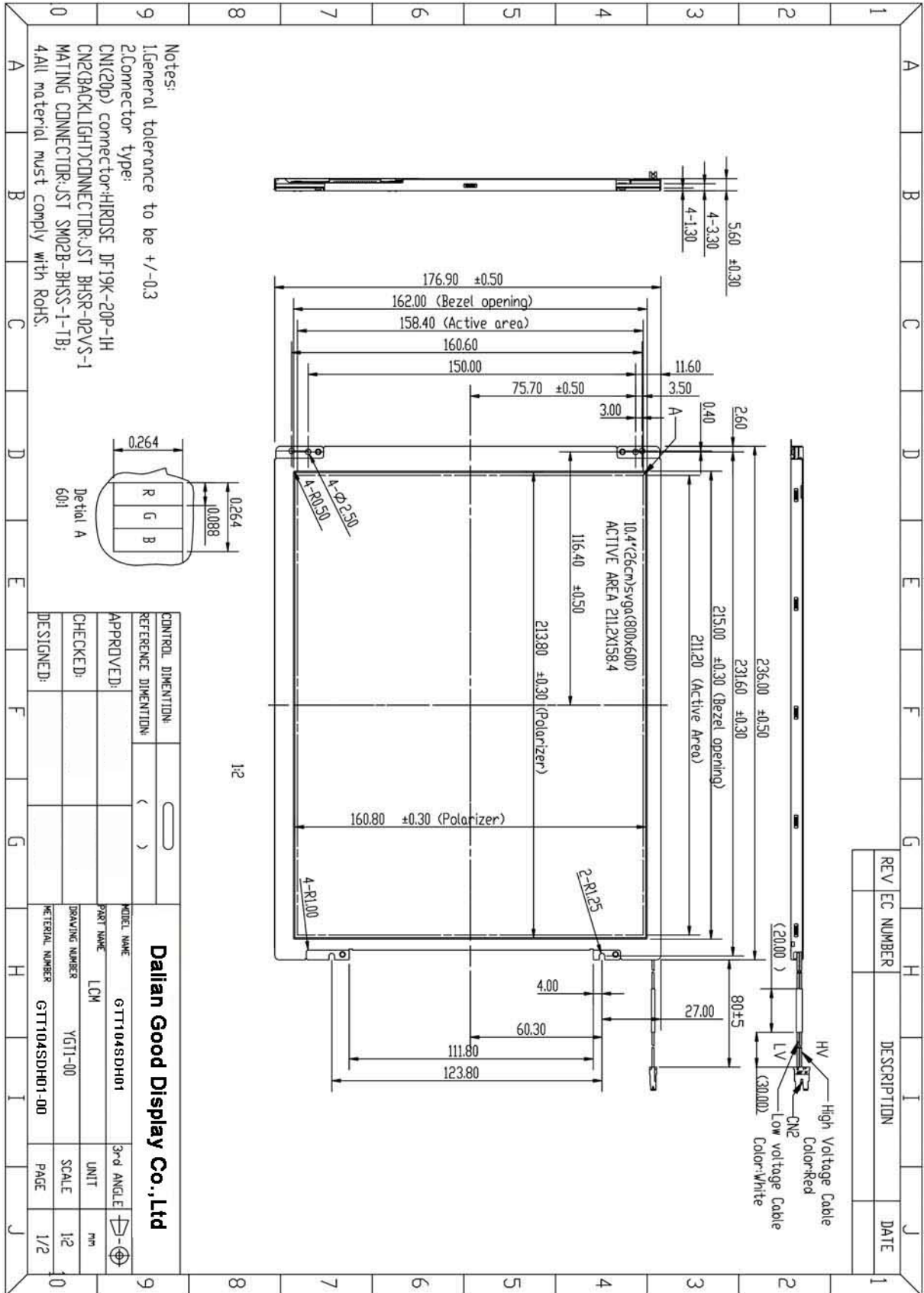
5.6 CN100 VGA signal input (Put VGA socket on the board)

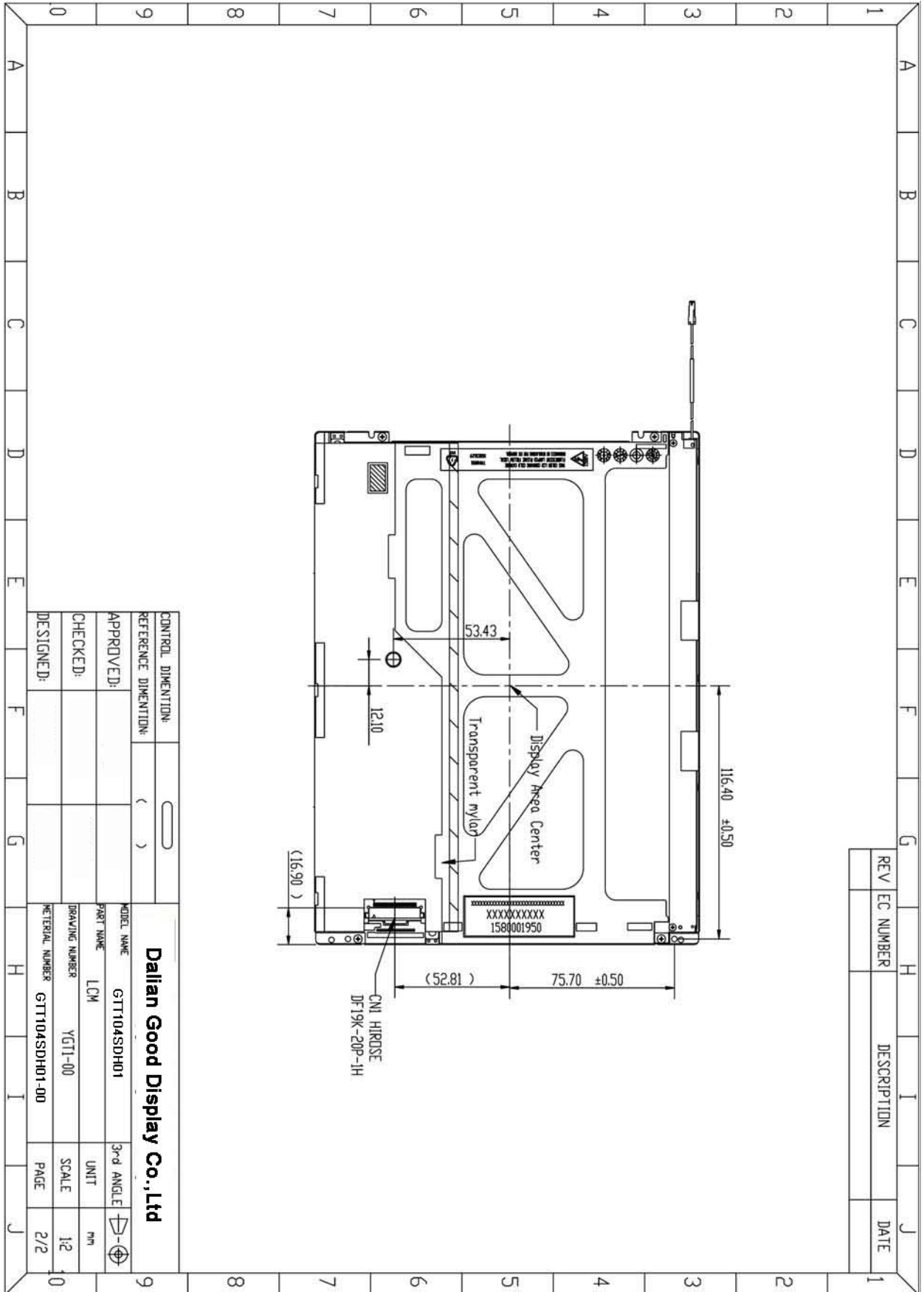
CN1 VGA signal input (put 13PIN(2.0) upright or horizontal on the board)



6. Structural diagram:

6.1 TFT LCD Panel:





REV	EC NUMBER	DESCRIPTION	DATE
1			

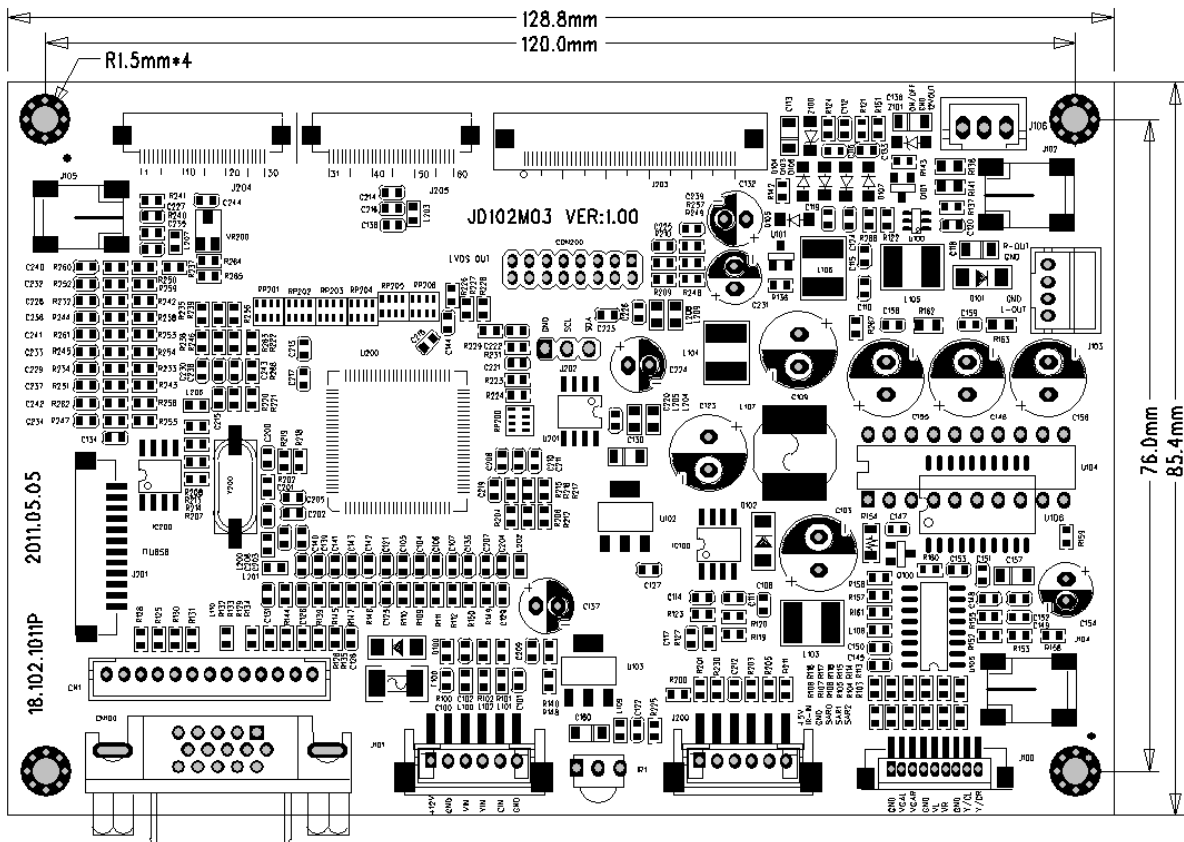
CONTROL DIMENTION:	()	MODEL NAME	GTT104SDH01	3rd ANGLE	▽-⊕
REFERENCE DIMENTION:	()	PART NAME	LCM	UNIT	mm
APPROVED:		DRAWING NUMBER	YGTI-00	SCALE	1:2
CHECKED:		MATERIAL NUMBER	GTT104SDH01-00	PAGE	2/2
DESIGNED:					

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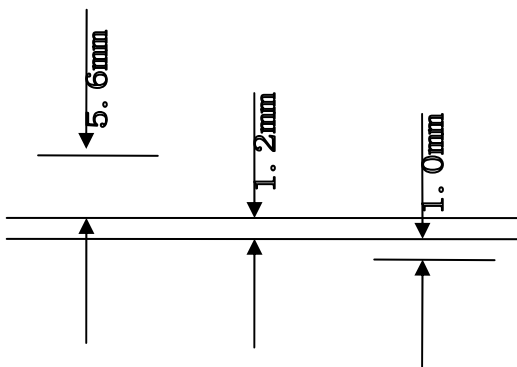


6.2 PCBA dimension: 128.8 (W) × 85.4(H) × 14.7(D) (w/VGA)

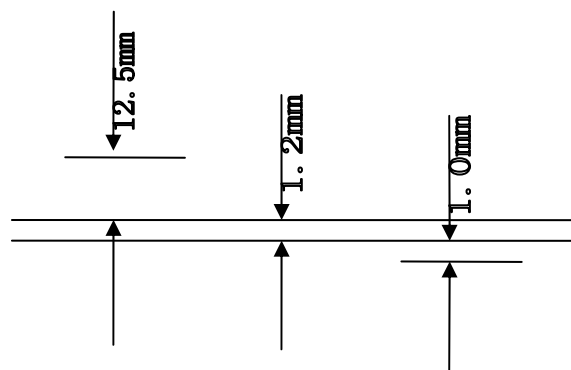
PCBA dimension: 128.8 (W) × 85.4(H) × 7.8(D) (w/o VGA)



w/o VGA:



w/VGA:





7. product logo :

GTT104SDH01 V1.0

8. Packing、 shipping and storage

1. Packing

TBD

2. Shipping and storage

Avoid to crash and drench, chemicals stores with humidity products together that is rigidly prohibited.

9. Precaution in use

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 effect3.
4. 10.4"TFT- LCD PANEL is a glasswork, handle with care ,broken for fear。
Also need to take anti-static.
5. Don't touch pushbutton's pin feet when you adjust it, due to Person have resistance, you will effect pushbutton's function when touch it.



10.10.4" TFT- LCD PANEL Inspection standard:

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

Scope: Apply to 10.4" TFT LCD

Content:

10.1. Inspection 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 is "OK". Otherwise "NG".

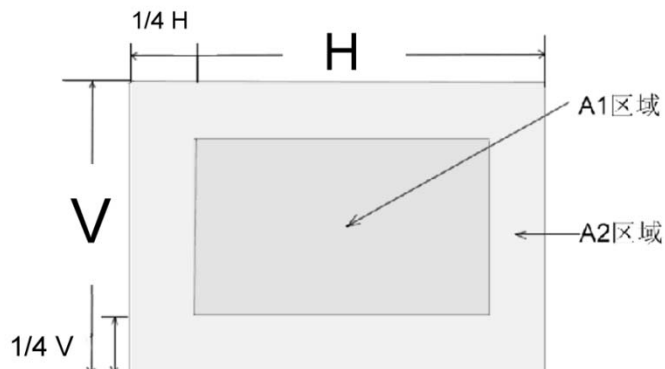
10.1.2. The method and determinative for black & white & color spots for the Panel of LCD:

10.1.2.1. Inspection methods

10.1.2.1.1. Black spots: 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 & 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: The center of the available area for the picture

A2: 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	A2
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
White 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

Remark:

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 comparison.
4. Total quantity of Black & white & color spot: $A1+A2 \leq 4$.