

LC-GD104VGA-LED

open frame monitor with VGA and Video input

10.4", resolution 800xRGBx600

1. Profile

Display system with Video and VGA signal input.

- automatic identifying and converting of NTSC/PAL signals,
- built-in OSD (on-screen display) offers adjustment of brightness, contrast and color
- 10.4" high contrast TFT display with LED backlight

2. Application

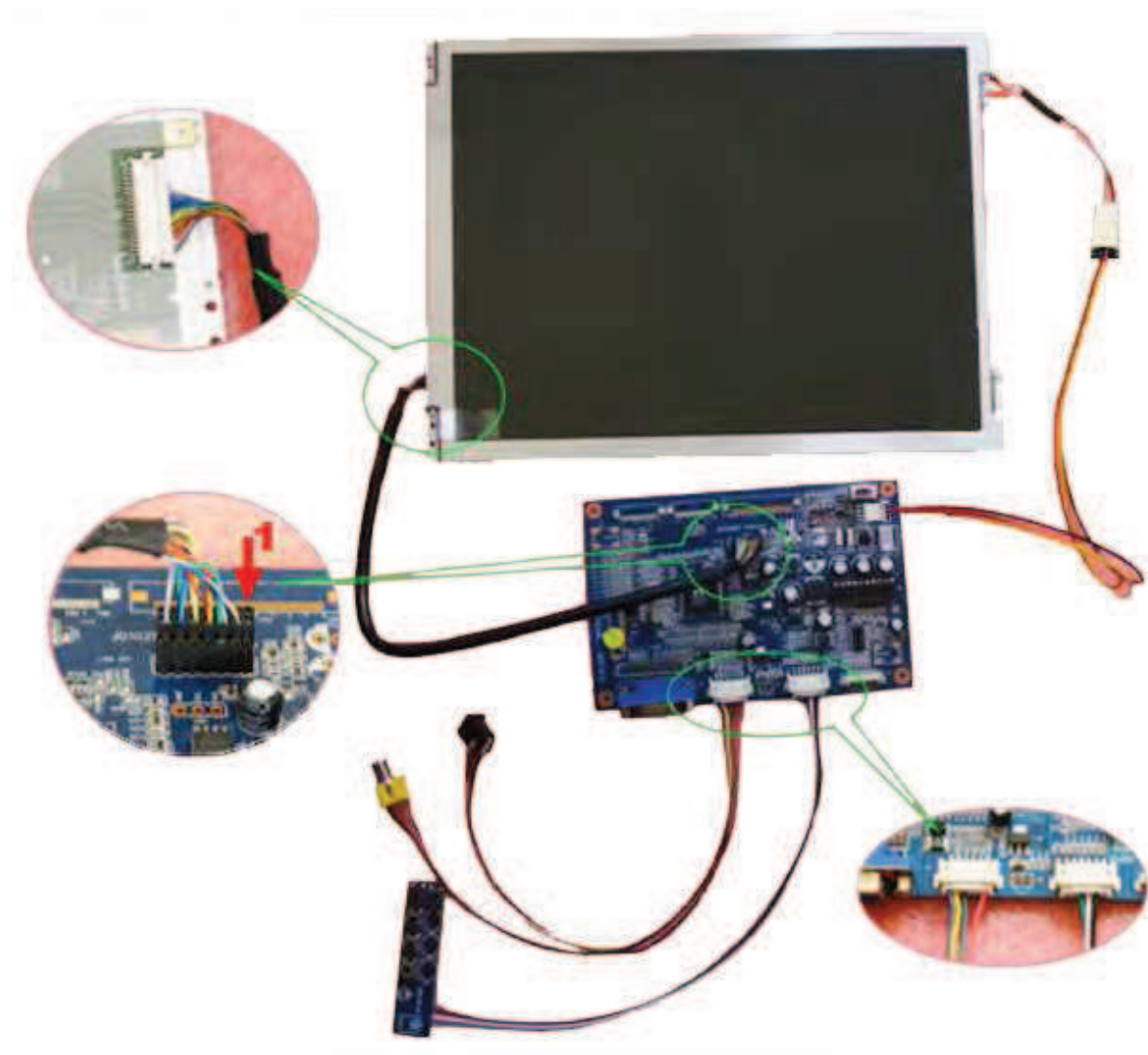
This module applies to

- Office electronic equipment
- Instrument and measure appliance
- Machinery and equipment
- Audiovisual (Car Monitor, Portable DVD Player, Long-distance terminal display)
- Household (Video door phone, Video phone)

3. Main Parameters:

- 10.4" TFT Display
- Resolution: 800(H) x RGB x 600(V)
- View angle (U/D/L/R) : (45/65/65/65)
- Luminance: ~ 400 cd/m²
- Backlight: LED
- System: PAL/NTSC (automatic identifying and converting)
- Signal Input: Video, VGA
- Power Supply Voltage: DC+12V(9-15V) (+12V < 350mA)
- Active Area (mm): 211.20 (H) x 158.40 (V)
- Outside dimension of display (mm): 236.0 (W) x 176.9 (H) x 5.6 (D)
- Structural dimension of PCB (mm): 128.8 (W) x 85.4 (H) x 14.7 (D)
- Operation temperature: -20°C ~+ 70°C
- Storage temperature: -30 °C~+80 °C
- Environment relative Humidity: 5~95 % RH

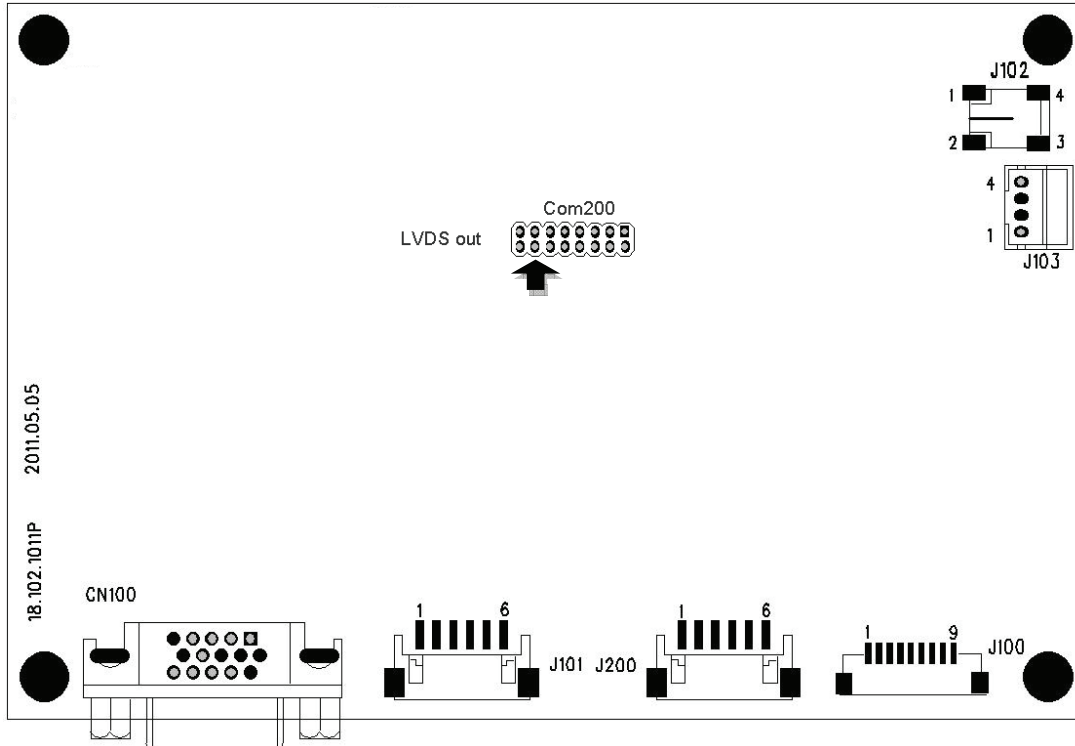
4. Connection Diagram:



supports graphic resolutions of 640x480, 800x600 and 1024x768 in VGA-mode

also supports 640 x 400 and 720 x 400 (DOS-modes)

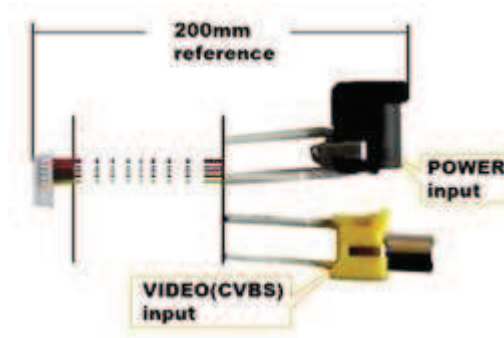
5. Wiring Diagram



6. Connection Definition of Driver Board:

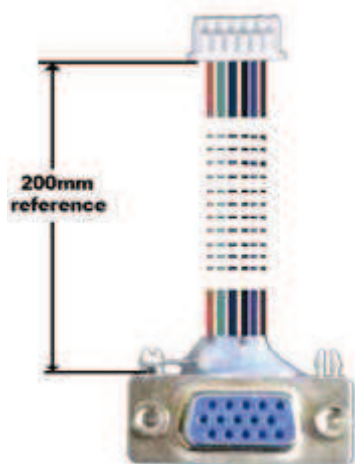
6.1 J101 (Video input, power supply)

Pin No.	Symbol	Input/Output	Description	Remark
1	+12V	I	+12V power input	
2	+12V	I	+12V power input	
3	GND	I	Ground	
4	GND	P	Ground	
5	Video	I	Video signal input	
6	C	I	Y signal input	
7	Y	I	C signal input	
8	GND	P	Ground	



6.2 CN100 (VGA-input)

Pin No.	Symbol	Input/Output	Description	Remark
1	RED	I	VGA - Red	
2	GREEN	I	VGA - Green	
3	BLUE	I	VGA - Blue	
4	nc	-		
5	GND	P	Ground	
6	GND	P	Ground	
7	GND	P	Ground	
8	GND	P	Ground	
9	nc	-		
10	nc	-		
11	nc	-		
12	nc	-		
13	HSYNC	I	VGA - horizontal sync	
14	VSYNC	I	VGA - vertical sync	
15	nc	-		



With cable

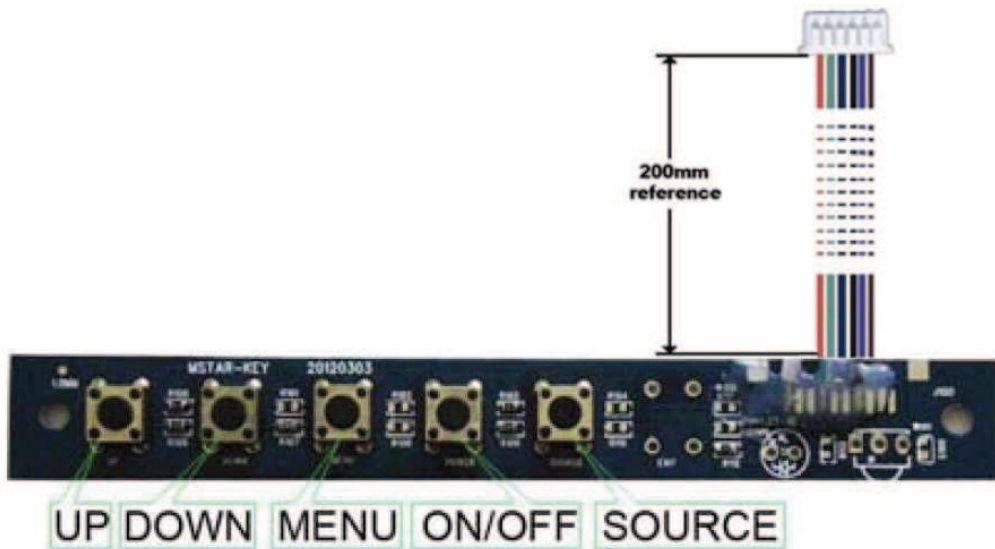
or with connector on board



6.3 J200 (Control)

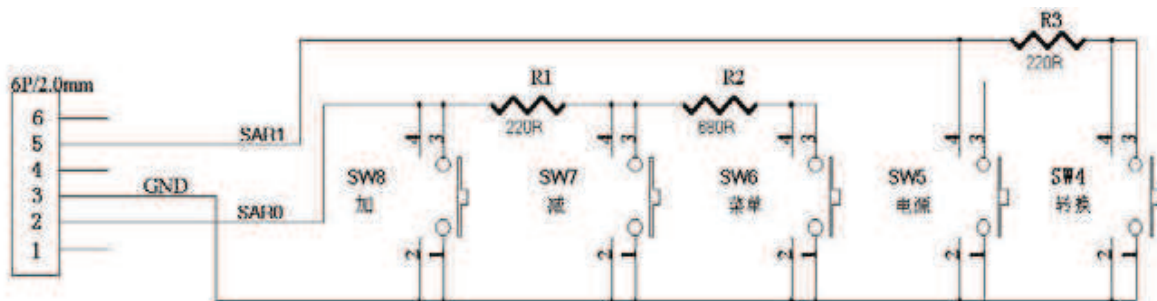
Pin No.	Symbol	Input/Output	Description	Remark
1	VCC	O	Power supply	
2	SAR0	I	Key-press input	
3	GND	P	Ground	
4	VCC	I	Power supply	
5	SAR1	I	Key-press input	
6	GND	P	Ground	

OSD-Keyboard

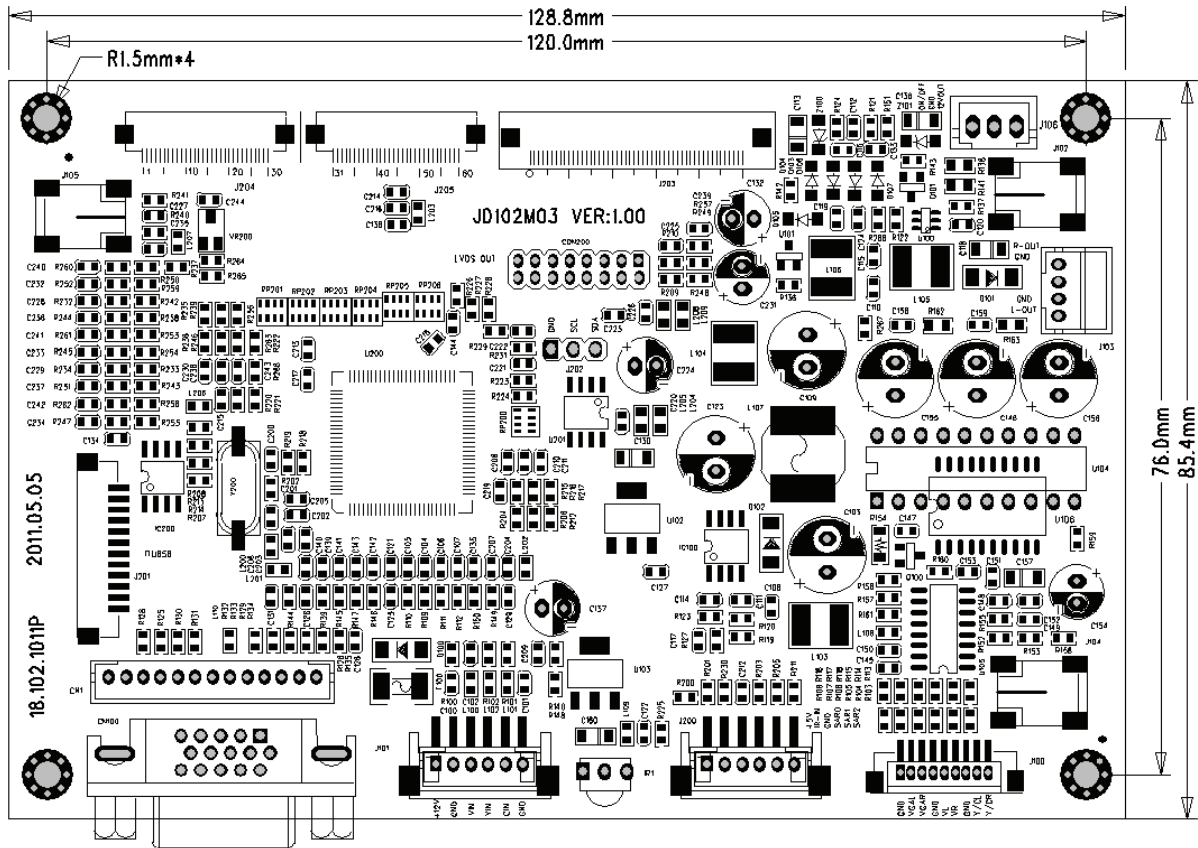


Pin No.	Symbol	Input/Output	Definition	Remark
SW4	Source	I	AV-Switch	
SW5	Power	I		
SW6	Menu	I		
SW7	+	I	Up	
SW8	-	I	Down	

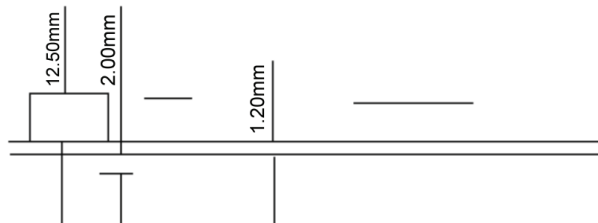
Wiring diagram of keyboard



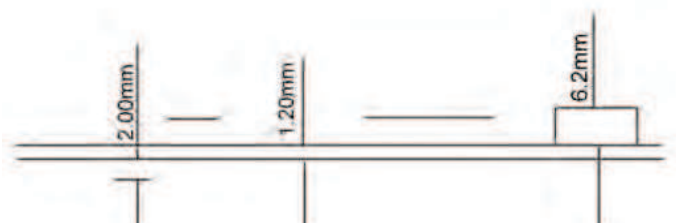
7.2 Structural Diagram of PCB:



Dimensions: 102 mm x 50 mm x7,9 mm



with VGA- connector on board



with cable

8. TFT LCD Panel determinant standard:

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

Content:

8.1 Determinant standard and method:

8.1.1 The method and determinant of panel of LCD:

8.1.1.1. 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".

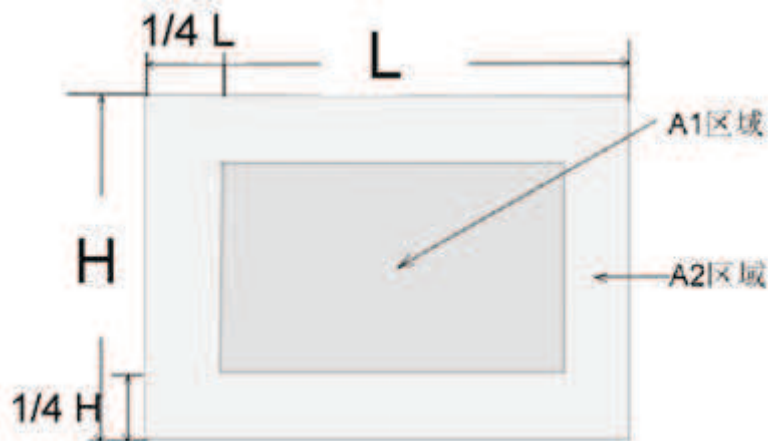
8.1.2 The method and determinative for black & white & color spots for the Panel of LCD:

8.1.2.1 Inspecting methods

8.1.2.1.1. 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.

8.1.2.1.2 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.

8.1.2.2. 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
(8 mm around the central area)