SF064VT1-VGA

□ SPECIFICATION □

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GENERAL DESCRIPTION

- APPLY TO MULTIPLE LCD MODULE: V16C6448AC/AE/AF.
- VGA AND SVGA INPUT SYSTEM

  f H : 48.1 Khz *f* H :37.9Khz *f* H :35.1Khz *f* H :31.5Khz

  f V : 75Hz *f* V : 72Hz *f* V : 60 Hz *f* V : 56 Hz

  DOT CLK:50Mhz DOT CLK:40Mhz DOT CLK:36Mhz DOT CLK:25.175Mhz
- POWER SOURCE DC 12V
- POWER CONSUMPTION 800 mA , 12W Max.
- OPERATING TEMPERATURE 0℃ ~ 60℃
- STORAGE TEMPERATURE -20℃ ~ 80℃
- WEIGHT 280 ±3g

FEATURES

- VGA OR SVGA INPUTS
- 6-BIT RGB OUTPUT
- CONVENIENTLY ADJUST IMAGE BY OPERATING KEYBOARD
- SUPPER INTERGRATED PLL TECHNOLOGY
- LOW POWER COMSUMPTION

APPLICATION PRECAUITION

- SECURITY
- PC MONITOR
- INDUSTRY CONTROL MONITOR
- POS

DRIVER INTRODUCTION

1.Brief Diagram (Refer Appendix Page For Details)

2.Port Definition

a) J1——Keyboard Operation Port
b) J3——Connection port of Driver with LCD Connector (LVDS mode);
c) J4——Connection port of Driver with LCD Connector (TTL mode);
d) CN200——Analytic VGA Input Port;
e) CN300——Communication Port (standby) ;
f) CN301——Power Input Port（DC12V）;
g) CN303——Output Port For Inverter Power.

Notes: All ports define square pad as the first position。

3.PIN ASSIGNMENT

CN1:Osd Connertor

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	GND	5	MENU	9	GND
2	POWER	6	LEFT-	10	VCC(+5v)
3	RED	7	RIGHT+		
4	GREEN	8	ENTER		

CN2:Inverter Connertor

Pin NO	DEF	Pin NO	DEF	Pin NO	DEF
1	+12V	2	GND	3	On/Off

CN200:VGA Connertor

Pin NO	DEF	Pin NO	DEF	Pin NO	DEF	Pin NO	DEF
1	GND	4	GREEN	7	GND	10	CON
2	RED	5	GND	8	HD	11	SDA
3	GND	6	BLUE	9	VD	12	SCL

CN301:Power Connertor

Pin NO	DEF	Pin NO	DEF
1	+12V	2	GND

CN12:LVDS Connertor

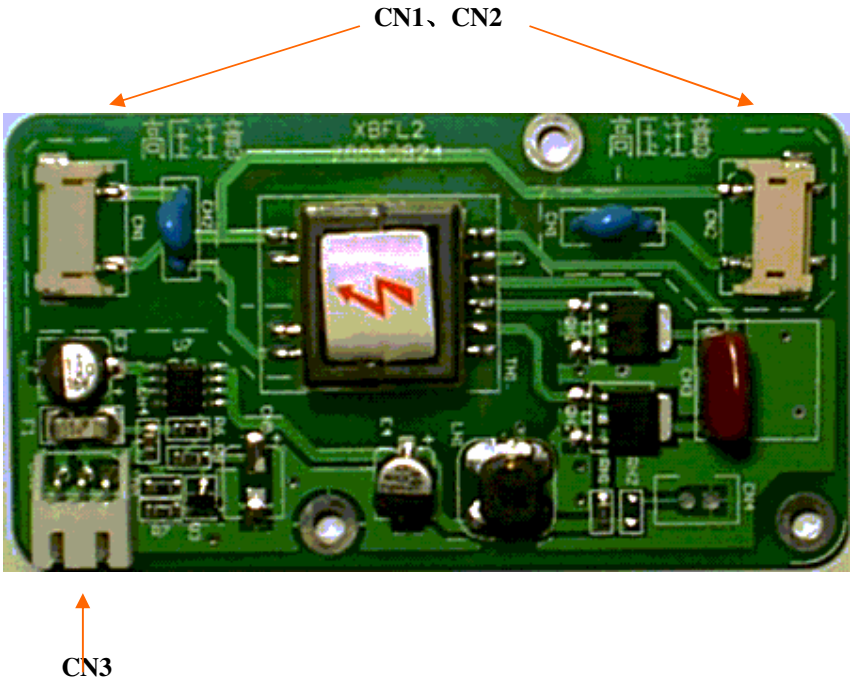
Pin	DEF.	Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	VCC	6	0+	9	Ck1-	13	11+
2	VCC	7	1-	10	Ck1+	14	12-
3	GND	8	1+	11	00-	15	12+
4	GND	9	2-	12	00+	16	Ck2-
5	0-	10	2+	15	11-	20	Ck2+

CN13:TTL Connertor

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	GND	14	DGRN3	27	DEN	40	GE2
2	DCLK	15	DGRN4	28	VCC	41	GE3
3	DHS	16	DGRN5	29	VCC	42	GE4
4	DVS	17	DGRN6	30	GND	43	GE5
5	GND	18	DGRN7	31	RE0	44	GND
6	DRED2	19	GND	32	RE1	45	BE0
7	DRED3	20	DBLU2	33	RE2	46	BE1
8	DRED4	21	DBLU3	34	RE3	47	BE2
9	DRED5	22	DBLU4	35	RE4	48	BE3
10	DRED6	23	DBLU5	36	RE5	49	BE4
11	DRED7	24	DBLU6	37	GND	50	BE5
12	GND	25	DBLU7	38	GE0		
13	DGRN2	26	GND	39	GE1		

INVERTOR INTRODUCTION

1.Brief Diagram (Refer Appendix Page For Details)



2.Port Definition

CN1—— High Voltage Output terminal Connected to Back Lamp.

CN2—— High Voltage Output terminal Connected to Back Lamp.
CN3—— Inverter Input port connected to Inverter Output Port of Driver.

Notes: 1.All Ports Define Square Pad As The First Position。
2.CN1、CN2 Terminals Supply AC High Voltage For Back Lamp Which Brightens The LCD Module.

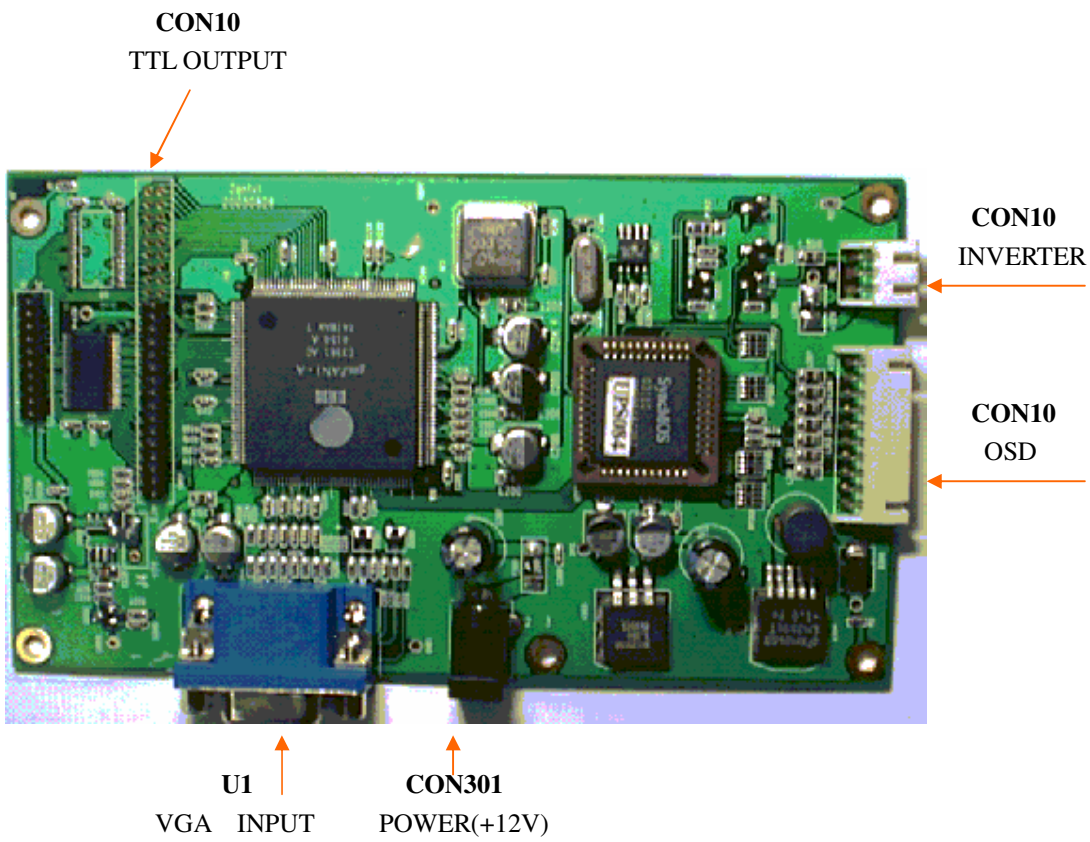
3.Pin Assignment

CNH1

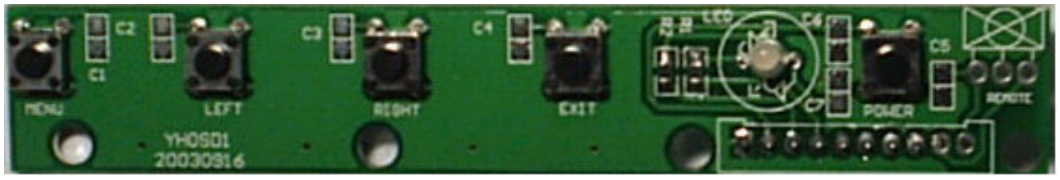
Pin NO	DEF.	Pin NO	DEF.
1	DC Power (+12V)	3	Grand
2	ON/OFF		

Notes: The port define square pad as the first position。

2.A/DBoard Diagram (Refer Appendix Page For Details)



KEYBOARD INTRODUCTON



MENU LEFT BRIGHT EXIT LCD POWER

2.Connector Definition

CONI10——This connector connected to operation port of driver

Notes: The Connector define square pad as the first position

3.OSD Function Description

If you want to get the best effect, An adjustment of keyboard is required. Then the menu will show as following:

Menu

Symbol		Description
Auto Configuration		Auto Configuration
Brightness		Brightness
Contrast		Contrast
Color	Auto Balance	Automatically Keep Color's balance
	R、G、B	R、G、B、adjust single
	Color Temperature	Color Temperature
Position	H-Position	Left and Right Adjustment Of Image Position
	V-Position	UP and Down Adjustment Of Image Position
	Auto center	Auto center
Image	Phase	Clock Phase Adjust
	Clock	Clock Frequency Adjust
	Auto phase	Automatically Keep Phase's balance
Miscellaneous	OSD Timeout	OSD Blanking Timer
	OSD Position	OSD Position On Screen
Information		Input VGA Signal

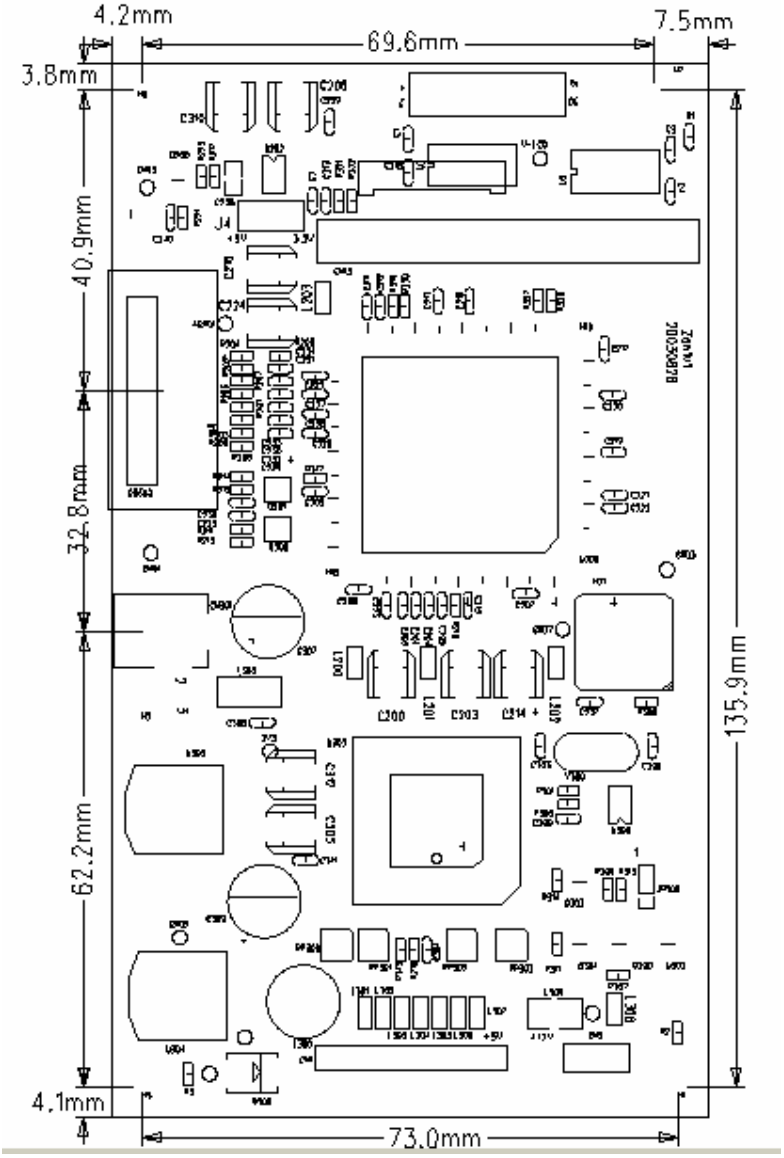
Notes:

- Do as foregoing Description if want to get favorite image. But the best state is set before shipment

- Occasional flare of Image may occur when starting the LCD Monitor, it is normal phenomena because autocontrols internally
- Partially there are snow-flare and bad pictures because time does not match with s equence, please adjust accordingly.

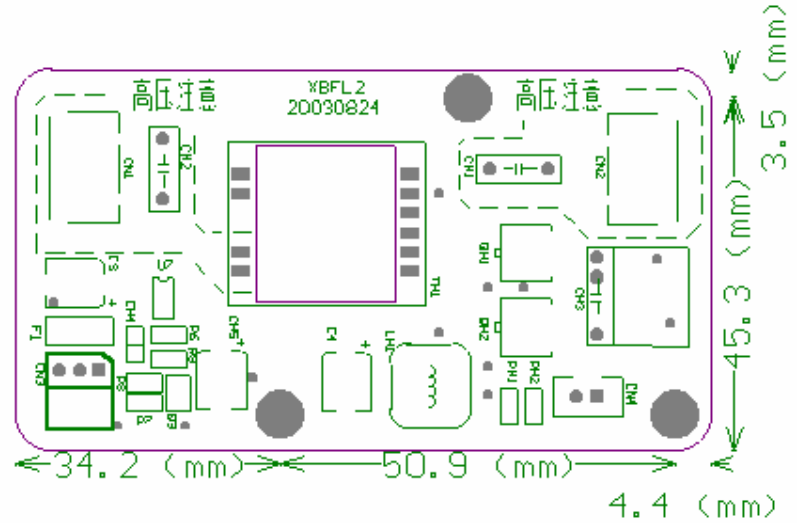
MACHINE DRAWING

A/D Board



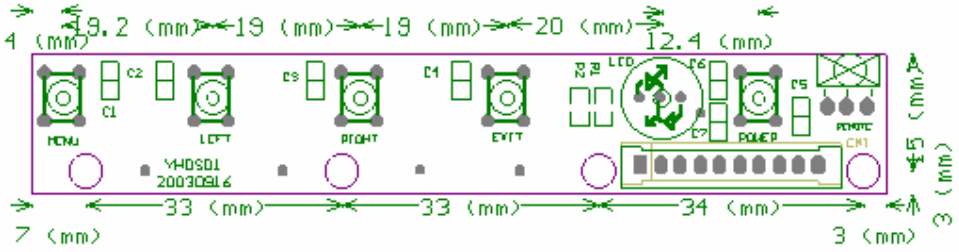
Description:
High (Max): 7.5 mm
Board thickness: 1.6mm

Inverter_Board



Description:
High (Max): 7.5 mm
Board thickness: 1.6mm

OSD_Board



Appendix Page

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