

1. GENERAL DESCRIPTION

2033 V3. 20 is a multi-purpose LCD controller. It is designed to support TTL/LVDS LCD panel.

The main feature of 2033 V3. 20 can support VGA Signal input.

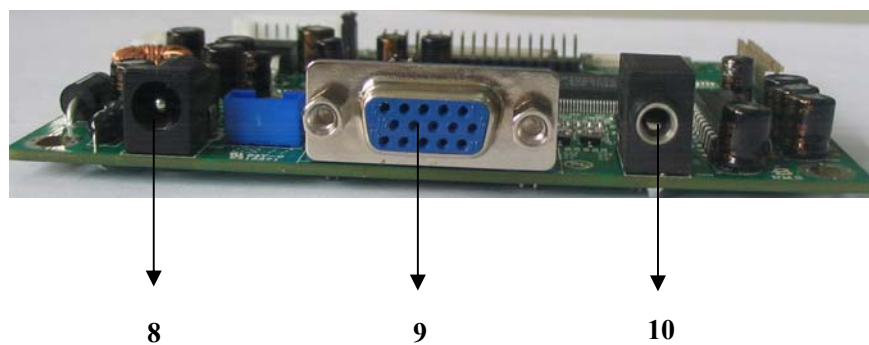
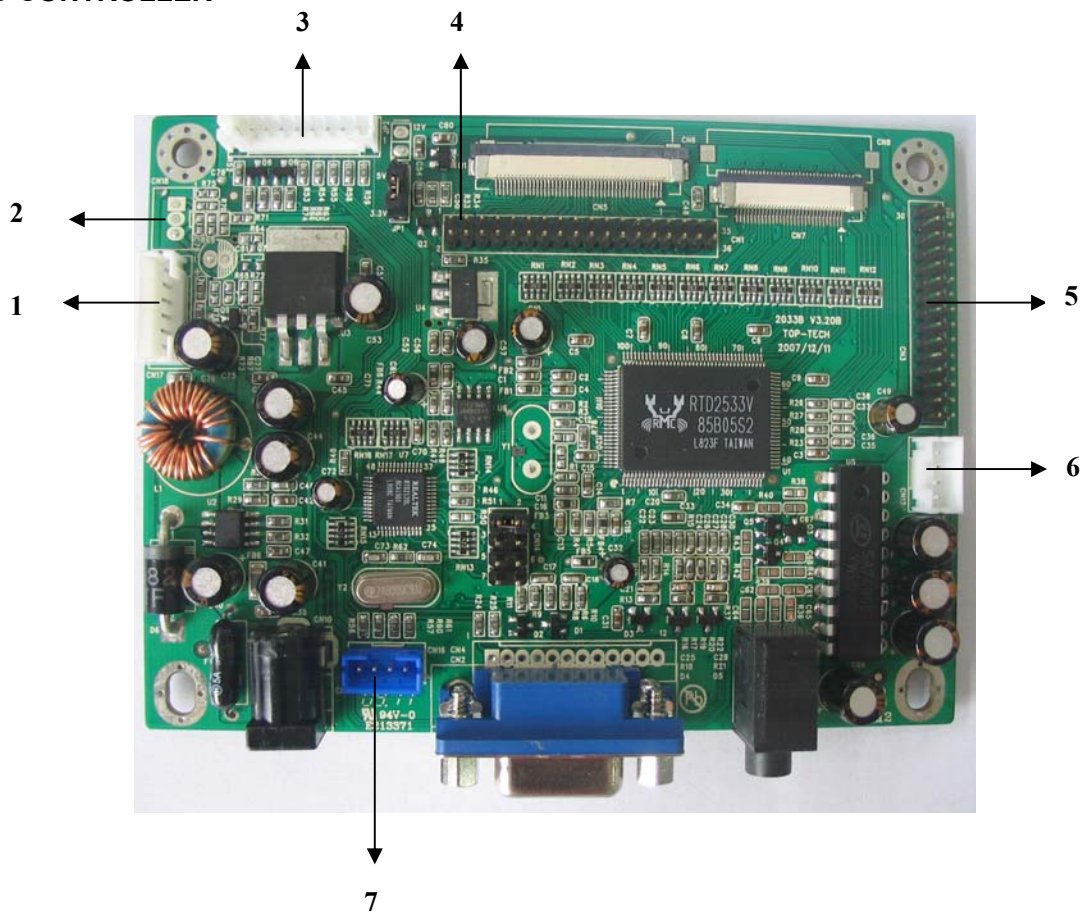
2 FEATURES

Below you will find the detailed feature

Single input	PC-RGB	Format	Up to 1920*1440@60HZ
		Color	16bit, 24bit, 32bit
Audio input	PC-RGB	Left and right audio input	
Power	Power Requirement	12V	
	To panel	3.3V,5V,12V	
	Manage	Low power consumable mode: standby<2W	
OSD Language	Chinese,English, French ,Spanish , Italian, German, Portuguese, Dutch(Option)		
Key Functions	EXIT,MENU,VOL-,VOL+,AUTO,ON/OFF (Control by remote control)		
Audio Output	2*2w (8 Ω)		
Weak signal enhancement		/	
Nosier reduction		/	
Panel Resolutions	Up to 1920*1440@60HZ		
Terminals	Input	PC-RGB Input	1D-SUB 15PIN terminal blue color
		PC-RGB Audio Input	1 earphone terminal black color
	Output	To Panel	FCC

3 FUNCTION LAYOUT

PICTURE OF LCD CONTROLLER



INTERFACE FUNCTION DESCRIPTION

NO	DESCRIPTION	NO	DESCRIPTION
1 (CN17)	INVERTER INTERFACE	6 (CN12)	SPEAKER
2 (CN18)	REMOTE RECEIVER INTERFACE	7 (CN16)	DEBUG PORT
3 (CN15)	KEY BOARD	8	DC IN
4 (CN1)	TTL	9	VGA IN
5 (CN3)	LVDS PANEL INTERFACE	10	PC AUDIO IN

INTERFACE DEFINITION

Below ,please see the symbol and description from left to right pin

CN17(6PIN/2.0) INVERTER INTERFACE

NO	SYMBOL	DESCRIPTION
1	GND	Ground
2	GND	Ground
3	BK LADJ	Brightness adjustment
4	BKLON	Black-light ON/OFF control
5	12V	+12V DC Power supply
6	12V	+12V DC Power supply

CN18 (3PIN/2.0) REMOTE RECEIVER INTERFACE

NO	SYMBOL	DESCRIPTION
1	IR_IN	Remote receiver
2	GND	Ground
3	IR_VCC	+5V DC power supply

CN15(9PIN/2.0)KEY BOARD

NO	SYMBOL	DESCRIPTION
1	EXIT	EXIT Key
2	MENU	MENU Key
3	AUTO	AUTO Key
4	LEFT	LEFT Key
5	RIGHT	RIGHT Key
6	GND	Ground
7	GREEN_LED	Green indicator
8	RED_LED	Red indicator
9	ON/OFF	ON/OFF key

CN3 (2*15PIN/2.0)LVDS PANEL INTERFACE

NO	SYMBOL	DESCRIPTION
1	LCDPWR	Power for panel
2	LCDPWR	Power for panel
3	LCDPWR	Power for panel
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	ATX0-	LVDS 0DD 0- Signal
8	ATX0+	LVDS 0DD 0+ Signal
9	ATX1-	LVDS 0DD 1- Signal
10	ATX1+	LVDS 0DD 1+ Signal
11	ATX2-	LVDS 0DD 2- Signal

12	ATX2+	LVDS ODD 2+ Signal
13	GND	Ground
14	GND	Ground
15	ATCK-	LVDS ODD Clock- Signal
16	ATCK+	LVDS ODD Clock+ Signal
17	ATX3-	LVDS ODD 3- Signal
18	ATX3+	LVDS ODD 3+ Signal
19	BTX0-	LVDS EVEN 0- Signal
20	BTX0+	LVDS EVEN 0+ Signal
21	BTX1-	LVDS EVEN 1- Signal
22	BTX1+	LVDS EVEN 1+ Signal
23	BTX2-	LVDS EVEN 2- Signal
24	BTX2+	LVDS EVEN 2+ Signal
25	GND	Ground
26	GND	Ground
27	BTCK-	LVDS EVEN Clock- Signal
28	BTCK+	LVDS EVEN Clock+ Signal
29	BTX3-	LVDS EVEN 3- Signal
30	BTX3+	LVDS EVEN 3+ Signal

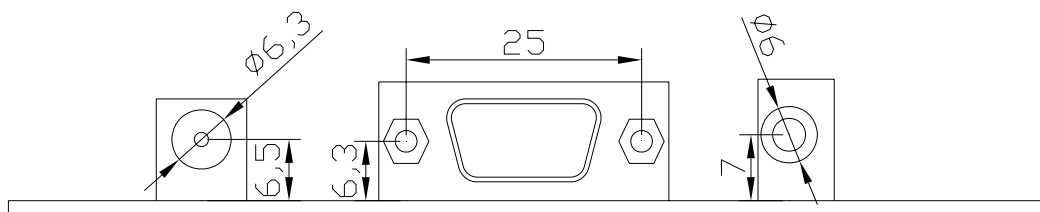
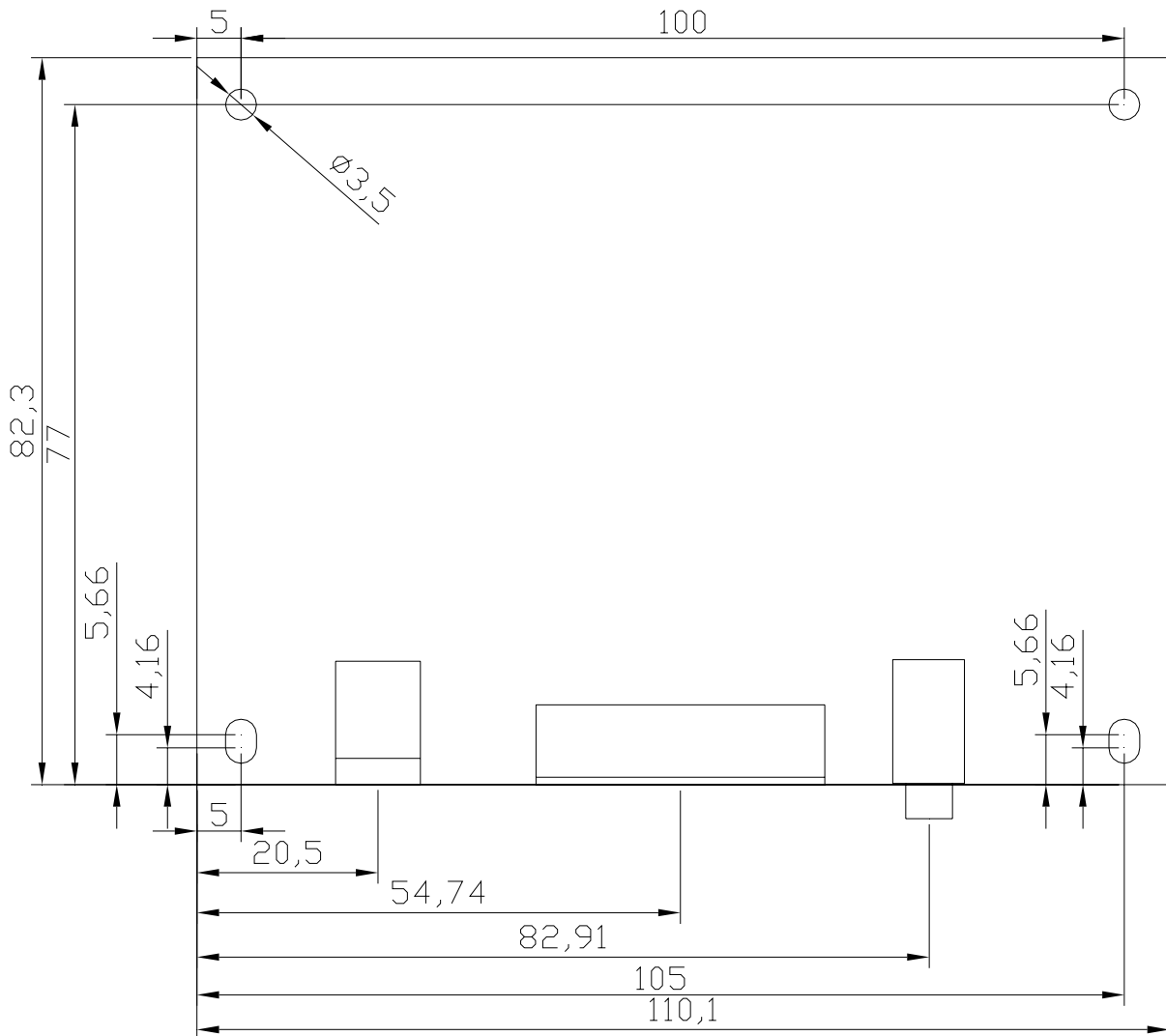
CN12(4PIN/2.0)SPEAKER

NO	SYMBOL	DESCRIPTION
1	SK_L	Speaker left
2	GND	Ground
3	GND	Ground
4	SK_R	Speaker right

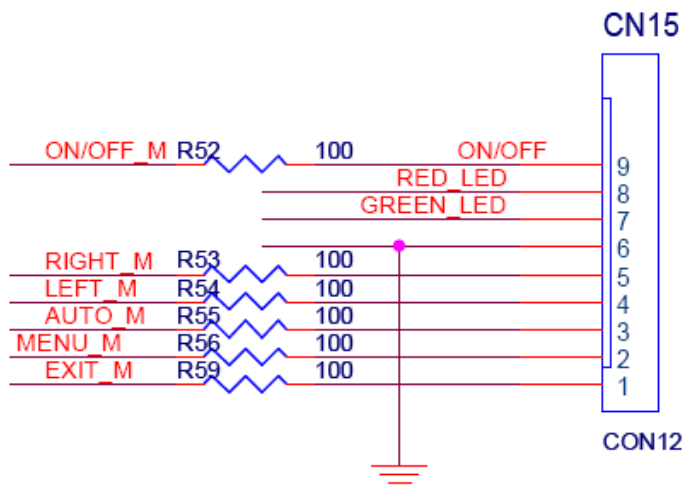
CN16(4PIN/2.0) DEBUG PORT

NO	SYMBOL	DESCRIPTION
1	GND	Ground
2	TXD	Transmit data
3	RXD	Receive data
4	VCC	+5V power supply

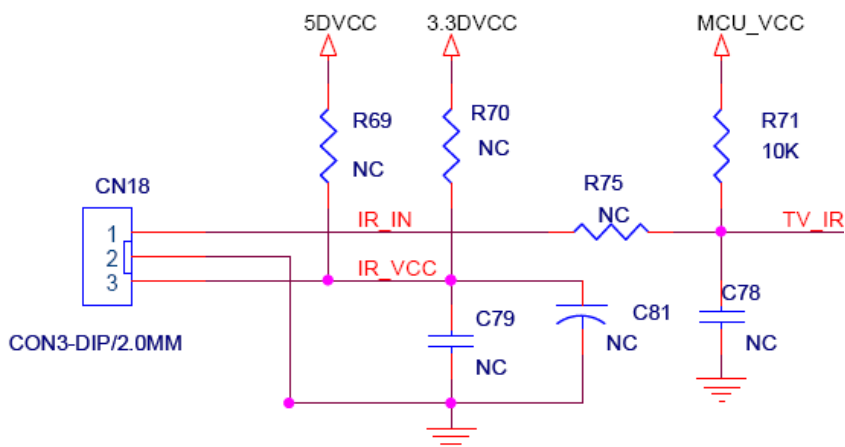
4.CONTROLLER DIMENSIONS



5.KEY BOARD SYSTEM SCHEMATIC



6.IR BOARD SYSTEM SCHEMATIC



7.OPERTION REQUIREMENT

Do not pressed and distorted.

Keep away from static and water.

Relative humidity :≤80%

Storage temperature:-10~+60℃

Operation temperature:0~+40℃