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RECORD OF REVISIONS

VERSION NO	DATE	PAGE	DESCRIPTION

1. GENERAL DESCRIPTION

FLI8125 V3.22-A is a multi-purpose LCD controller, it is suitable European market. It is designed to support dual/single LVDS which 15-22 inch LCD panel.

The main feature of 8125V3.22-A can support,VGA, YPbPr(External) TV signal input, S-VIDEO,AV

2 FEATURES

Below you will find the detailed feature

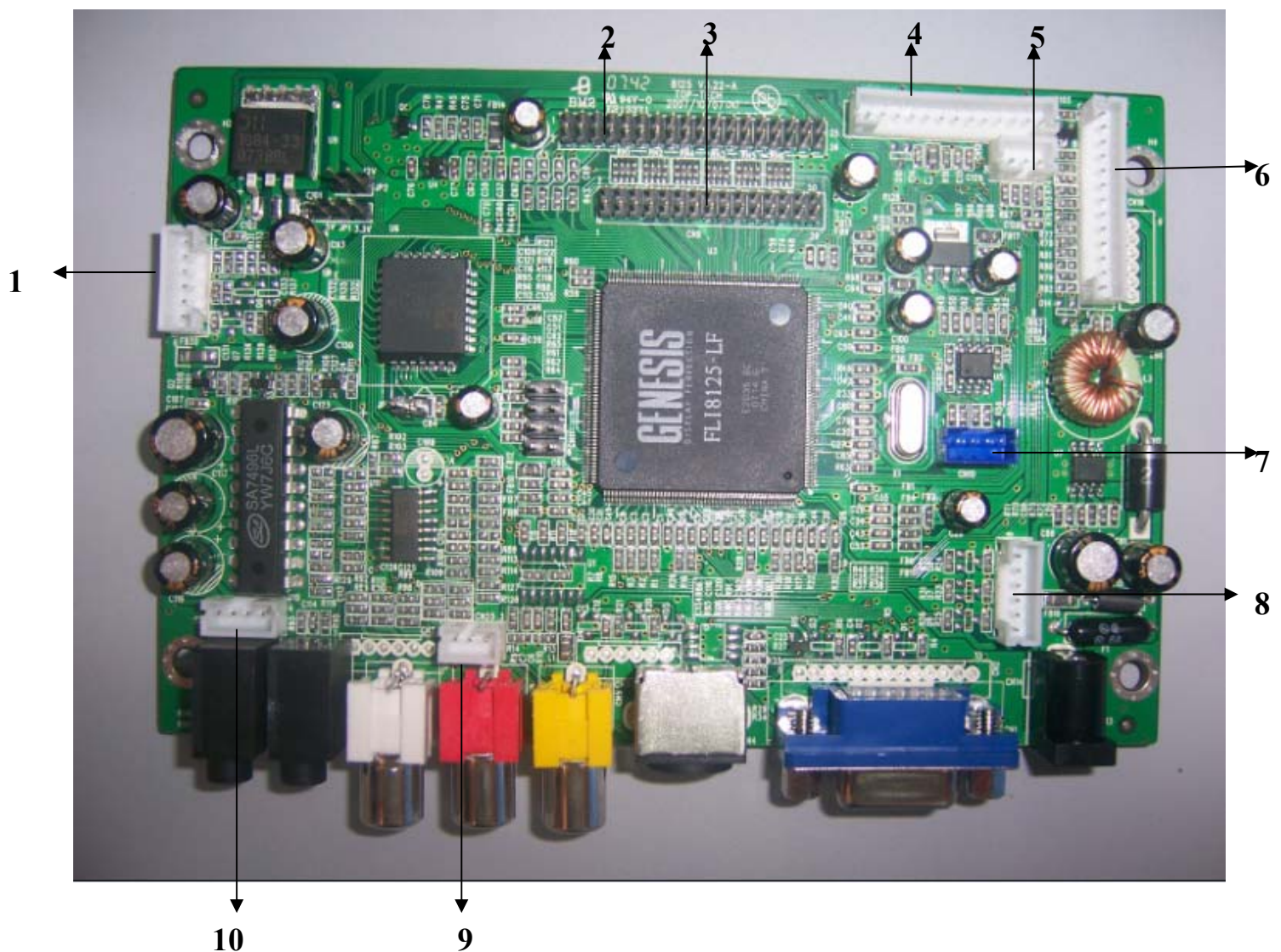
Video Input	TV	VIDEO SYSTEM	PAL、SECAM	
		SOUND SYSTEM	BG ,DK ,I, L(Secam)	
		RECEIVE CHANNEL	255	
	S-Video	S-Y:1.0V Vp-p +/-5% S-C:0.3Vp-p +/-5%		
	CVBS	1.0Vp-p +/-5%		
	YPbPr/YCbCr	480i、480p、576i、576p、720p		
	PC-RGB	Format	Up to 1680*1050@60HZ	
		Color	16bit, 24bit, 32bit	
	HDMI			
SCART	/			
Expansion function	Card reader/USB	None		
	Inbuilt DVD	None		
Audio input	S-Video/CVBS	Left and right audio input		
	PC-RGB and YUV	Pc:Earphone input		
Power	Power Requirement	12V		
	To panel	3.3V,5V,12V		
	Manage	Low power consumable mode: standby<3w		
OSD Language	English, French ,Spanish , Italian, German, Portuguese, Dutch(Option)			
Key Functions	CH-,CH+,MENU,VOL-,VOL+,AUTO,ON/OFF (Control by remote control)			
Audio Output	2*2w (8 Ω)			
Comb Filter	2D	De-interlace	2D(HDTV)	
Weak signal enhancement	/			
Noiser reduction	/			
PIP	No			
EPG	/			
NICAM/A2, TELETEXT	/			

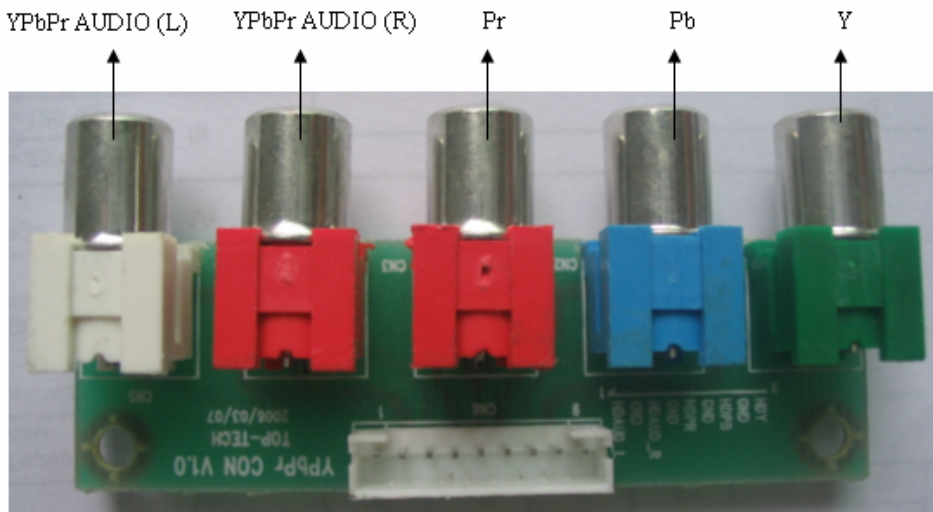
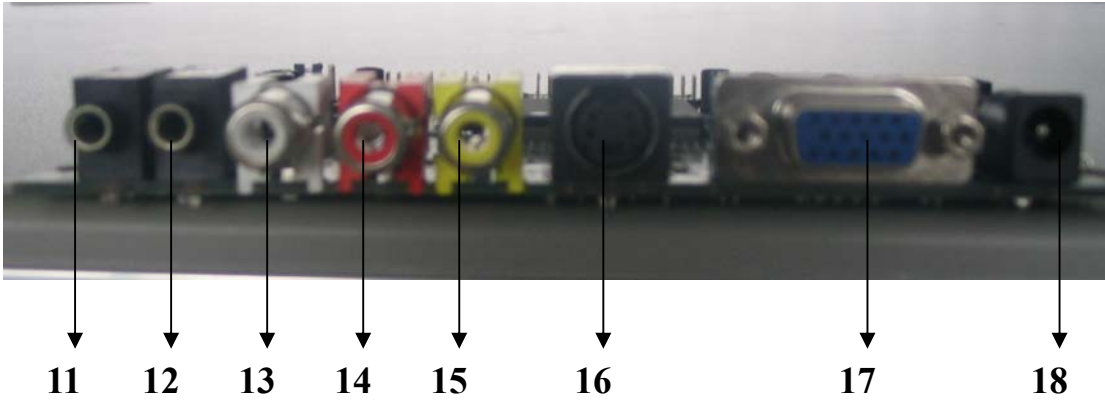
Panel Resolutions	Up to
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Terminals	Input	TV Input	1 IEC 75 Ω
		PC-RGB Input	1D-SUB 15PIN terminal blue color
		S-Video Input	1S-Video terminal black color
		CVBS Input	1RCA terminal yellow color
		YPbPr Input	3RCA terminal green color,blue color and red color (external)
		HDMI Input	
		SCART	
		CVBS Audio Input	2RCA terminal white color,red color
		YPbPr Audio Input	2RCA terminal white color, red color(external)
		PC-RGB Audio Input	1 earphone terminal black color
Output	To Panel	LVDS 30PIN/2.0 jack TTL 36PIN/2.0 jack	

3 FUNCTION LAYOUT

PICTURE OF LCD CONTROLLER





YPbPr (External HD)

INTERFACE FUNCTION DESCRIPTION

NO	DESCRIPTION	NO	DESCRIPTION
1 (CN24)	INVERTER INTERFACE	11	EARPHONE
2 (CN7)	TTL INTERFACE	12	PC AUDIO IN
3 (CN9)	LVDS PANEL INTERFACE	13	AUDIO IN(L)
4 (CN23)	TV EXTERNALCONNECTOR	14	AUDIO IN(R)
5 (CN12)	REMOTE RECEIVER INTERFACE	15	AV IN
6 (CN15)	KEY BOARD AND REMOTE RECEIVE	16	S-VIDEO IN

7 (CN10)	DEBUGGING INTERFACE	17	VGA IN
8 (CN6)	YPbPr INTERFACE	18	DC IN
9 (CN25)	YPbPr AUDIO		
10 (CN18)	SPEAKER		

INTERFACE DEFINITION

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

CN24 (6PIN/2.0) INVERTER INTERFACE

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

CN10(4PIN/2.0) DEBUGGING INTERFACE

NO	SYMBOL	DESCRIPTION
1	5V	+5V Power supply
2	TXD	TXD signal
3	RXD	RXD signal
4	GND	Ground

CN18(4PIN/2.0)SPEAKER

NO	SYMBOL	DESCRIPTION
1	SPK-L	Left audio channel out
2	GND	Ground
3	GND	Ground
4	SPK-R	Right audio channel out

CN15(13PIN/2.0) KEY BOARD AND REMOTE RECEIVE

NO	SYMBOL	DESCRIPTION
1	CH-	CH- Key
2	SELECT/CH+	CH+ Key
3	MENU	MENU Key
4	AV_PC/AUTO	SOURCE Key
5	VOL-/LEFT	VOL- Key
6	VOL+/RIGHT	VOL+ Key
7	GND	Ground

8	GRD	Green indicator
9	RED	Red indicator
10	ON/OFF	ON/OFF key
11	GND	Ground
12	IR	Remote receiver
13	IR_VCC	+5V DC power supply

CN6(6PIN/2.0) YPpPr (External HD)(OPTIONAL)

NO	SYMBOL	DESCRIPTION
1	HDY	HD Y signal
2	GND	Ground
3	HDPb	HD Pb signal
4	GND	Ground
5	HDPPr	HD Pr signal
6	GND	Ground

CN9(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 0DD 2+ Signal
13	GND	Ground
14	GND	Ground
15	ATCK-	LVDS 0DD Clock- Signal
16	ATCK+	LVDS 0DD Clock+ Signal
17	ATX3-	LVDS 0DD 3- Signal
18	ATX3+	LVDS 0DD 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

CN25(3PIN/2.0) YPbPr AUDIO

NO	SYMBOL	DESCRIPTION
1	HDAUD_R	AUDIO RIGHT
2	GND	Ground
3	HDAUD_L	AUDIO LEFT

CN23(13PIN/2.0) TV EXTERNAL CONNECTOR

NO	SYMBOL	DESCRIPTION
1	NC	NC
2	NC	NC
3	L_SW	Sound service patean choice
4	5V	Turn-on Delay time
5	SDA	TV DATA SIGNAL
6	SCL	TV CLOCK SIGNAL
7	GND	Ground
8	12V	+12V DC Power supply
9	GND	Ground
10	CVBS	TV CVBS signal
11	GND	Ground
12	TVAUDL	TV AUDIO LEFT IN
13	TVAUDR	TV AUDIO RIGHT IN

CN12(3PIN/2.0) REMOTE RECEIVER INTERFACE

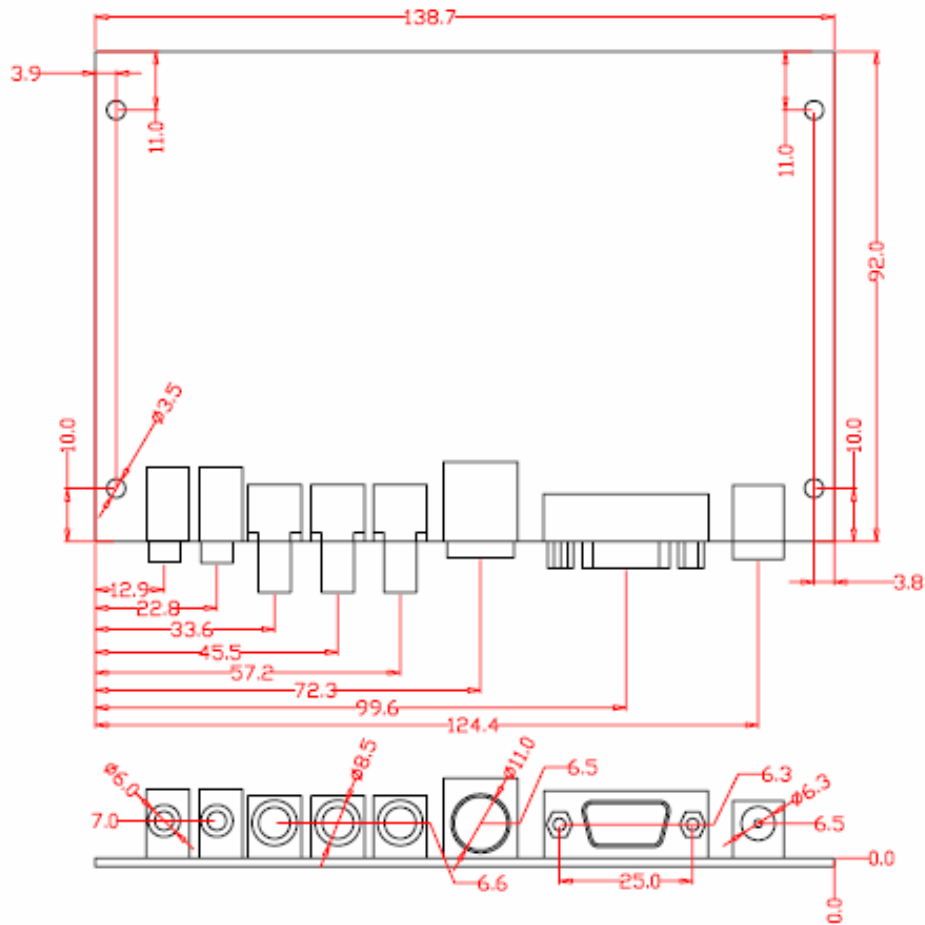
NO	SYMBOL	DESCRIPTION
1	IR-IN	Remote receiver
2	GND	Ground
3	IR-VCC	+3.3V/5V DC power supply


CN7(2*18PIN/2.0)TTL PANEL INTERFACE

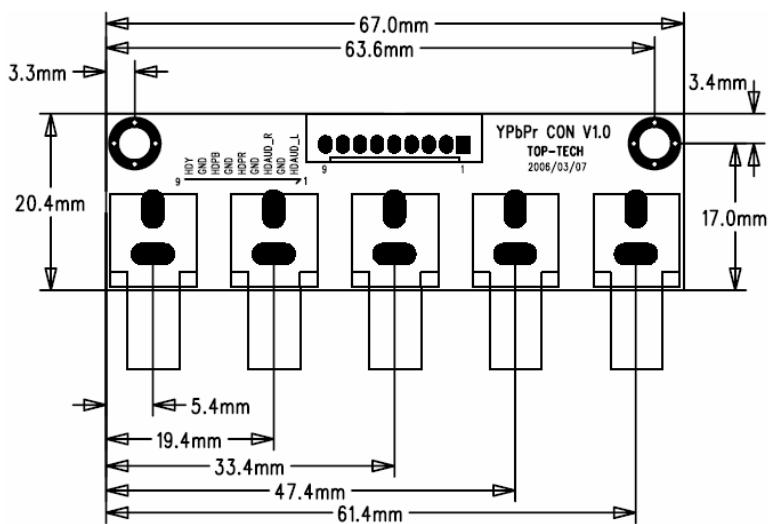
NO	SYMBOL	DESCRIPTION
1	PCLK	Data input clock

2	PENAB	Data enable signal each data signal
3	GND	Ground
4	PVS	Vertical Sync Signal
5	R7	Red data signal
6	PHS	Horizontal Sync Signal
7	R5	Red data signal (MSB)
8	R6	Red data signal
9	R3	Red data signal
10	R4	Red data signal
11	R1	Red data signal
12	R2	Red data signal
13	GND	Ground
14	R0	Red data signal
15	GND	Ground
16	G7	Green data signal (MSB)
17	G6	Green data signal
18	G5	Green data signal
19	G4	Green data signal
20	G3	Green data signal
21	G2	Green data signal
22	G1	Green data signal
23	G0	Green data signal
24	B7	Blue data signal
25	B6	Blue data signal
26	B5	Blue data signal(MSB)
27	B4	Blue data signal
28	B3	Blue data signal
29	B2	Blue data signal
30	B1	Blue data signal
31	GND	Ground
32	B0	Blue data signal
33	CDPWR	Power for panel
34	CDPWR	Power for panel
35	CDPWR	Power for panel
36	GND	Ground

4.CONTROLLER DIMENSIONS

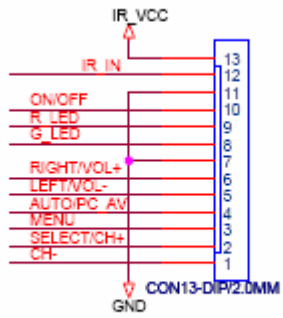


比例	单位
1:1	mm
产品名称	
8125V3.22-A	
	
鼎科实业	

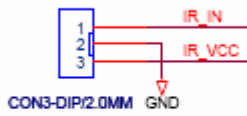


YPbPr (External HD)

5.KEY BOARD SYSTEM SCHEMATIC



6.IR BOARD SYSTEM SCHEMATIC



7.OPERATION REQUIREMENT

- Do not pressed and distorted.**
- Keep away from static and water.**
- Relative humidity :≤80%**
- Storage temperature:-10~+60℃**
- Operation temperature:0~+40℃**