

PRODUCT SPECIFICATION

2in-system LCD Control Board VGA/Video

DESCRIPTION:

CUSTOMER MODEL:

/MANUFACTURER MODEL: 8125 V 3 . 2 2

/DATE: 2007/10/16

CONTENTS

| PAGE | TITLE |
|------|----------------------------|
| 1 | COVER |
| 2 | CONTENS |
| 2 | RECORD OF REVISIONS |
| 3 | GENERAL DESCRIPTION |
| 3 | FEATURES |
| 4 | FUNCTION LAYOUT |
| 9 | CONTROLLER DIMENSIONS |
| 10 | KEY BOARD SYSTEM SCHEMATIC |
| 10 | IR BOARD SYSTEM SCHEMATIC |
| 10 | OPERATION REQUIREMENT |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

RECORD OF REVISIONS

| VERSION NO | DATE | PAGE | DESCRIPTION |
|------------|------|------|-------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1. GENERAL DESCRIPTION

FLI8125 V3.22 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 can support,VGA, YPbPr(External) TV signal input, S-VIDEO,AV

2 FEATURES

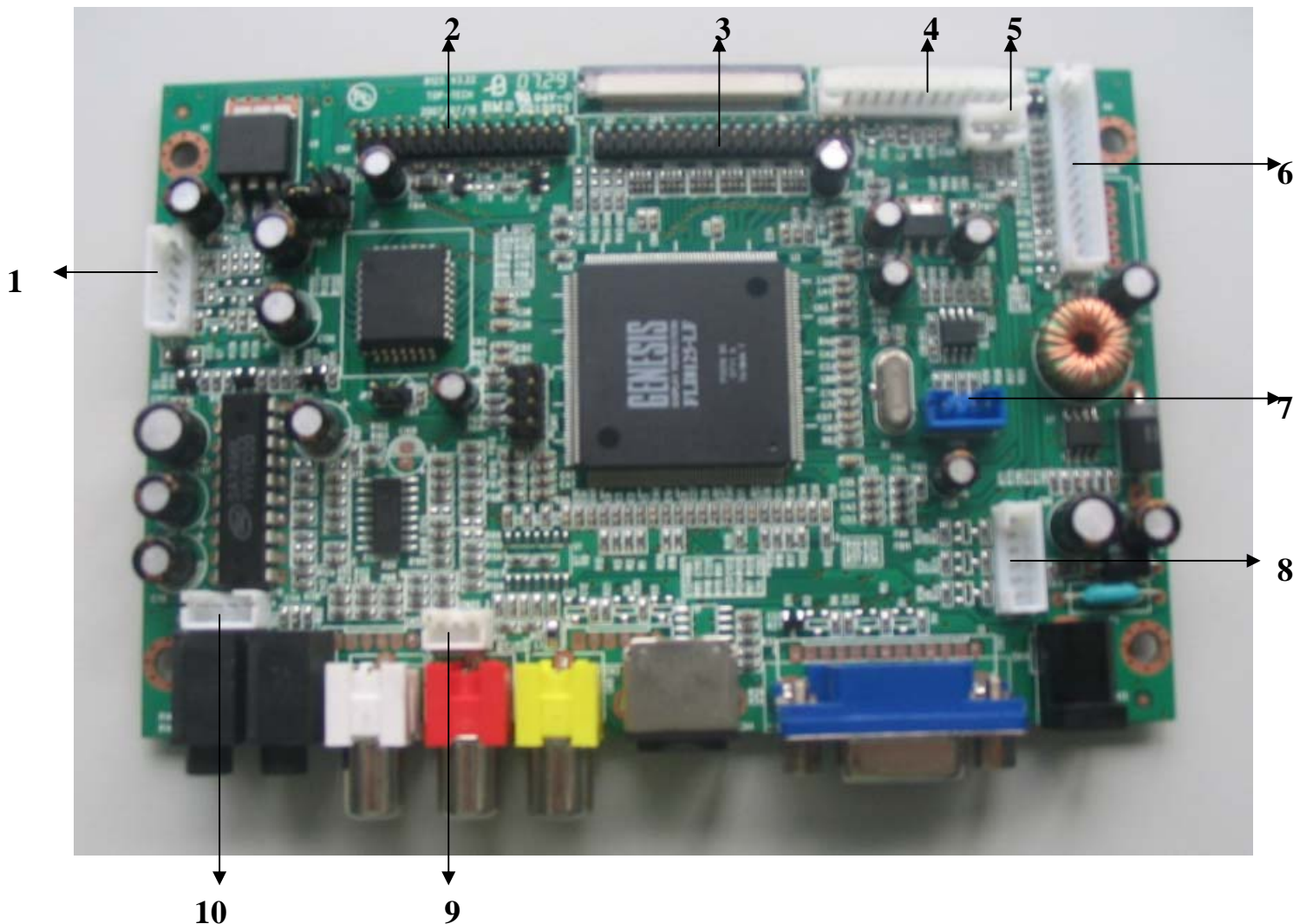
Below you will find the detailed feature

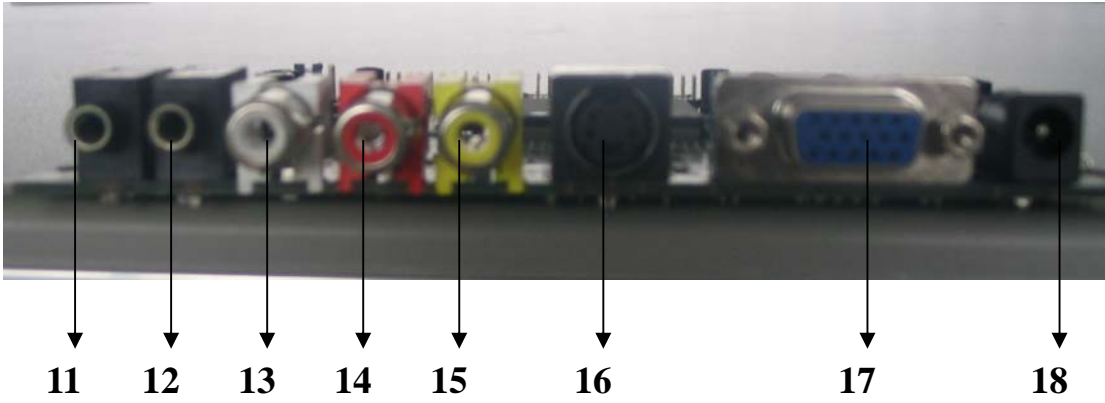
| | | | | |
|-------------------------|--|---------------------------------------|----------------------|--|
| Video Input | TV | VIDEO SYSTEM | PAL、SECAM | |
| | | SOUND SYSTEM | BG ,DK ,I, L(Secam) | |
| | | RECEIVE CHANNEL | 255 | |
| | S-Video | S-Y:1.0V Vp-p +/-5% S-C:0.3Vp-p +/-5% | | |
| | CVBS | 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 | | |
|-------------------|--------------------|---------------------------------|---|
| 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 | |

3 FUNCTION LAYOUT

PICTURE OF LCD CONTROLLER





INTERFACE FUNCTION DESCRIPTION

| NO | DESCRIPTION | NO | DESCRIPTION |
|-----------|------------------------------|----|-------------|
| 1 (CN24) | INVERTER PORT | 11 | EARPHONE |
| 2 (CN19) | LVDS PANEL INTERFACE | 12 | PC AUDIO IN |
| 3 (CN8) | TTL 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) | ATV DEBUGGING INTERFACE | 17 | VGA IN |
| 8 (CN6) | YPbPr PORT | 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- | |
| 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 | HDPr | 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

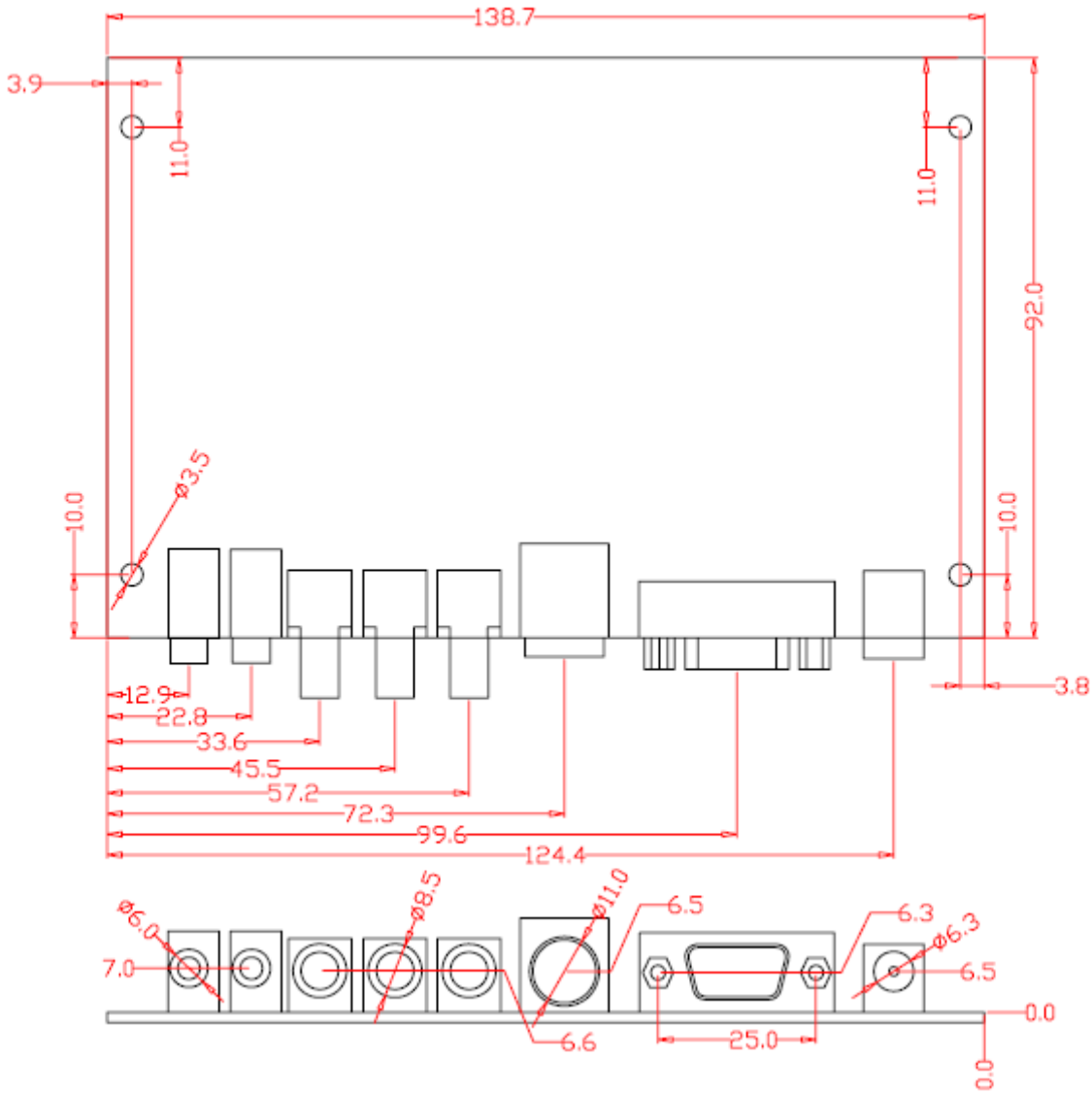
| NO | SYMBOL | DESCRIPTION |
|----|--------|-----------------------------|
| 1 | NC | NC |
| 2 | NC | NC |
| 3 | L_SW | Sound service patean choice |
| 4 | 5V | Turn-on Delay time |
| 5 | SDA | TV DATA SIGNAL |
| 6 | SCL | TV CLOCK SIGNAL |
| 7 | GND | Ground |
| 8 | 12V | +12V DC Power supply |

| | | |
|----|--------|-------------------|
| 9 | GND | Ground |
| 10 | CVBS | TV CVBS signal |
| 11 | GND | Ground |
| 12 | TVAUDL | TV AUDIO LEFT IN |
| 13 | TVAUDR | TV AUDIO RIGHT IN |

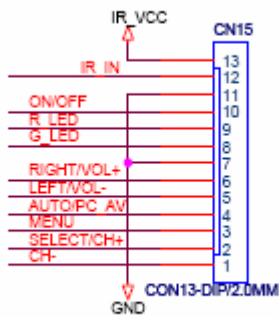
CN12(3PIN/2.0) REMOTE RECEIVER INTERFACE

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

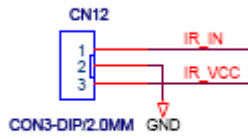
4.CONTROLLER DIMENSIONS



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℃