



LCD TV Control Board Update Brief Introduction

ATV PART

MAY 2008

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Title: LCD TV control board update brief introduction

Document: ATV PART

Date: MAY 2008

Related Documents:

Document	Title / Purpose in This Context	Release

Document History:

Document	Description	Release

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1. GENERAL DESCRIPTION

This word provide you a complete update information about ATV. According to the problem which has been raised by customer, this update program is intended to modify the software and solve the related questions, also it provide some enlarged function aimed to simulation TV 、 AV 、 YPbPr 、 PC 、 HDMI etc.

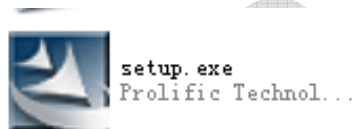
In order to successfully update the software, you should possess the electric board(include the related wire) , driver program(USB), update platform(spisp), update program(.Bin file), also should exactly follow the below steps .

After update, please take a little time to confirm whether your update is successful.

2. PREPARATIVE PROCEEDING

Passing through our inspecting, to update the firmware is very easy for user. But there are some preparative things which should be finished well.

1. Firstly , In order to make sure that PC can identify the electric board which you will connect by USB, you should install the USB drive . Please to select the Setup.exe, just as the below ico ,and begin to install by double click.

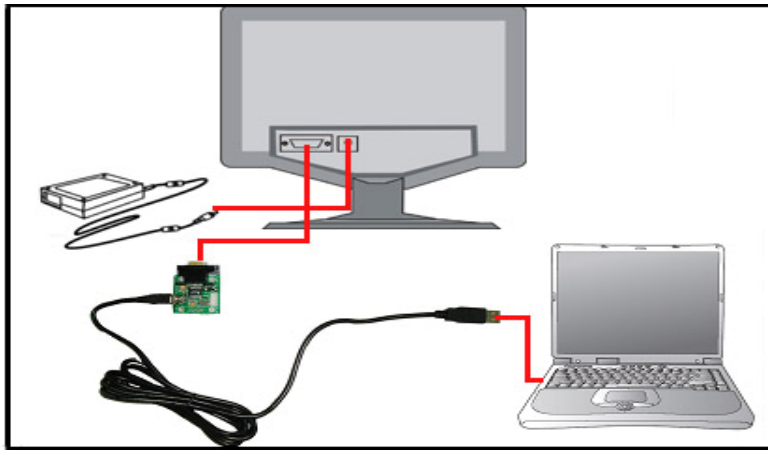


while in setup, you don't need to do any setting, just received the default value, when it display Finish, means your setup successful.

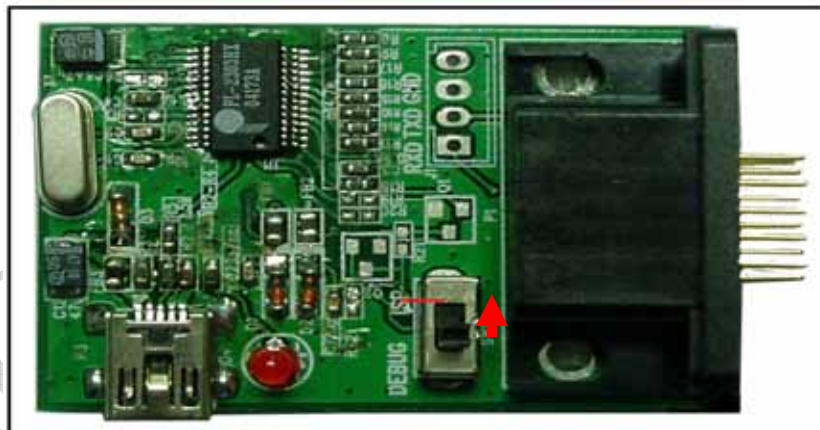
2. Secondly, you should connect PC to electric board (we provide) by USB wire, and then insert the electric board into DSUB interface (PC-RGB Signal Input port) of TV Control board. Also you should provide 12V power to the Control board (***This step should be finished after all the preparation done well, just after clicking the "Start"***), make sure the TV Control board is operating in the update proceeding. Usually A 12V power adapter is suitable.

After you have connected well follow as the below demonstration, the electric board will be identified by PC, if not , you should check the connection , maybe you should Install the USB driver again.

The illustration as follow picture show.



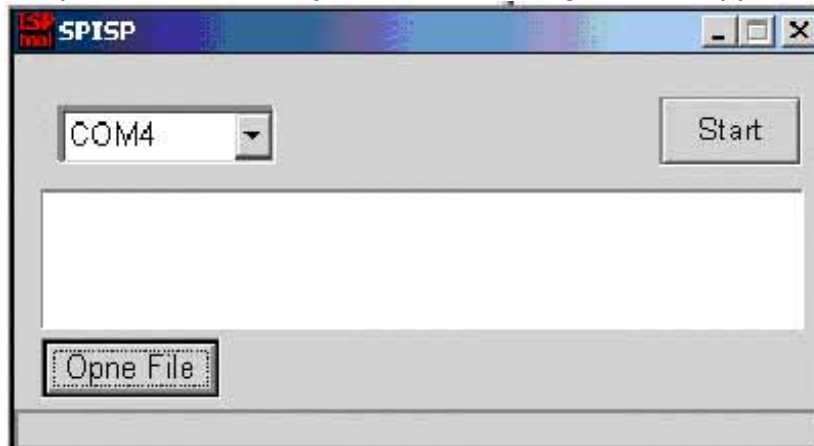
3. When connection successful, please be sure to set the switch of electric board to ISP, just as the below illustration.



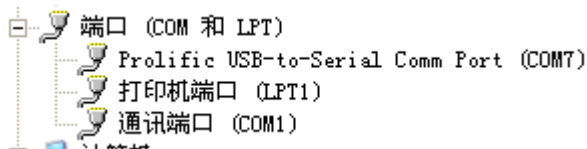
4. Then you should operate the update platform, please to select the spisp.exe, just as the below ico ,and open it by double click.



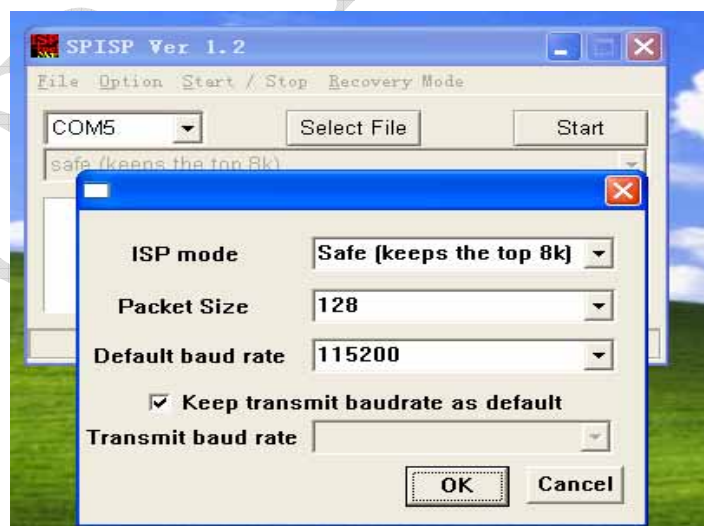
When it opened successfully, the below dialog box will appear in the screen.



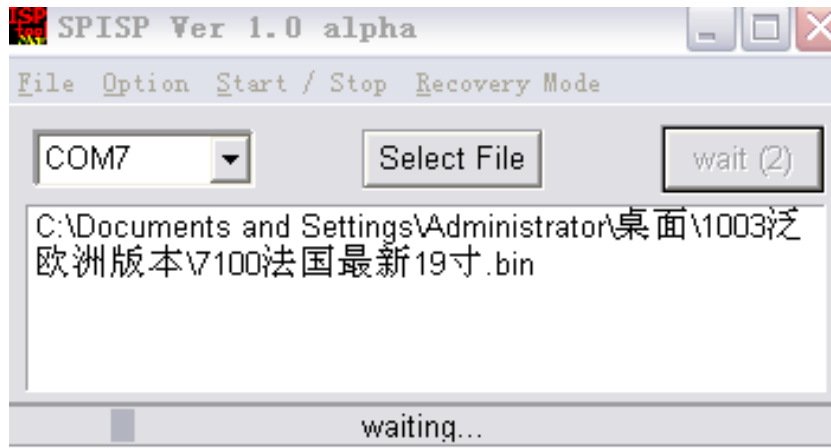
You should choose the appropriate COM port under the COM menu, you can refer the below picture shows:(My Computer\ Attribute\Hardware\Device manager)



After selecting desired COM , Choose **Option**, then below dialog box will appear , and please select “ **keep transmit baudrate as default** ” ,and Press Ok.



Then you should click the Select File to choose the BIN file which you want to update to USB. Then click [start],the below dialog box will appear in the screen.



When you have finished the preparative things well , the update proceeding begins.
(You can see the “waiting ” display in screen, then please be sure to connect the board with 12V power.)

3. UPDATE PROCEEDING

The update proceeding begins .

On the PC, the follow steps will run in turn .Just as the above picture illustrate. while “ Waiting “ is displaying with a blue diamonds moving that means PC is getting communication with TV.

if succeed, “ Erasing ” will be displayed, just as the below picture.



If failure, please click [Cancel], then click [Start] to try again.

If after several times , it is always not available, you can turn off power and pull out the board, check it again , until you can get the above picture.

While everything is normal , The data will begins to be transferred by USB wire,
The dialog box will change to bleow picture.



After the transferring finished, a “finish” dialog box will appear on the screen. Just as the below illustration.

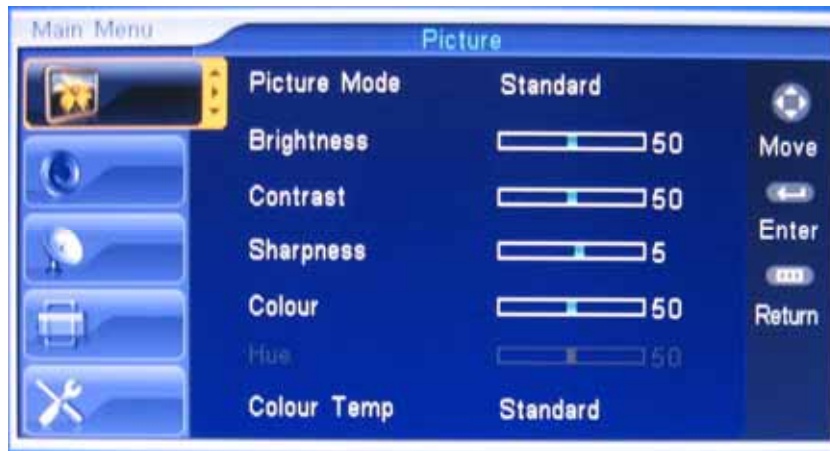


Until now , it means you have updated the software successfully, you can turn off power and pull out the board, then turn on TV.

4. HOW TO CONFIRM YOU ARE SUCCESSFUL?

After finished the above steps, your update is basicly done, but whether it is successfully ,we should to confirm exactly. So please take a little time to follow the below steps to check it.

Firstly,you should enter the”TV” source ,then press” MENU “button , the main menu will display, just as the below picture.



Secondly, you should press “7100”, after pressing the four keys, the” FACTORY MENU “ will appear on the Up-left side of screen, the detail just as the below picture.

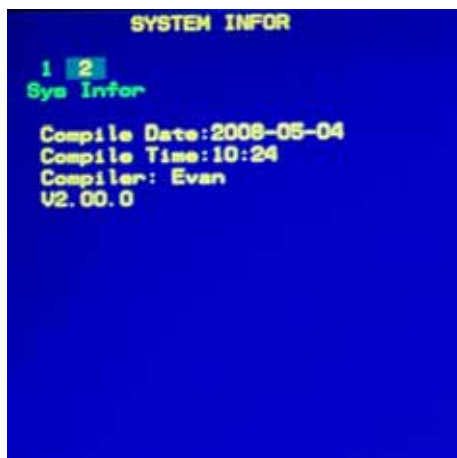


Thirdly, you should press “UP” or “DOWN” to select the “System Infor”, then press “RIGHT” to enter it. You will see the below picture on the Up-left side of screen.



You can see there are two options available , but you should choose "2" , then the

current Compile Date and Compile Time will display , just as the below picture.



If the current time is exact, congratulate you on update successful.

7100 升级步骤说明

第一部分：安装 7100 升级板 USB 转串口驱动

解压缩附件里的“7100 升级板 USB 转串口驱动”，然后打开文件夹，双击



安装中不用更改设置，默认即可

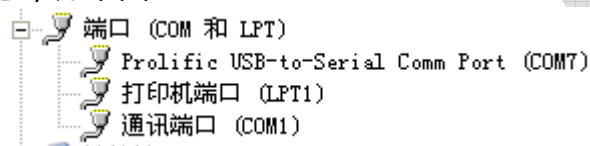
第二部分：升级步骤说明

将升级板上的拨动开关拨至“ISP”一侧

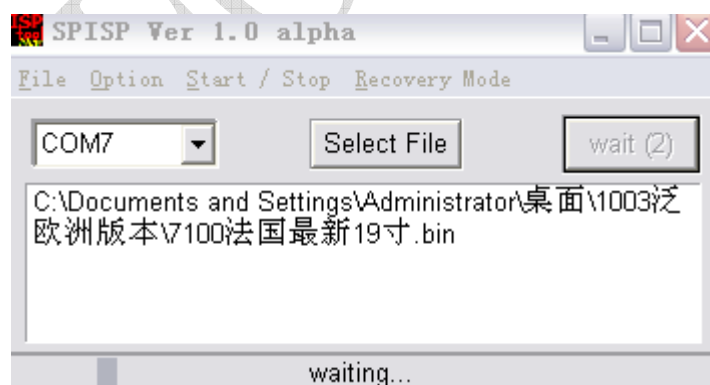
解压缩附件里的“SPISP”，得到如下图的软件工具



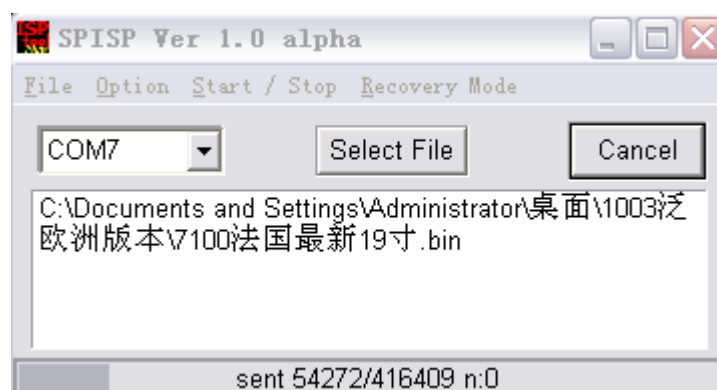
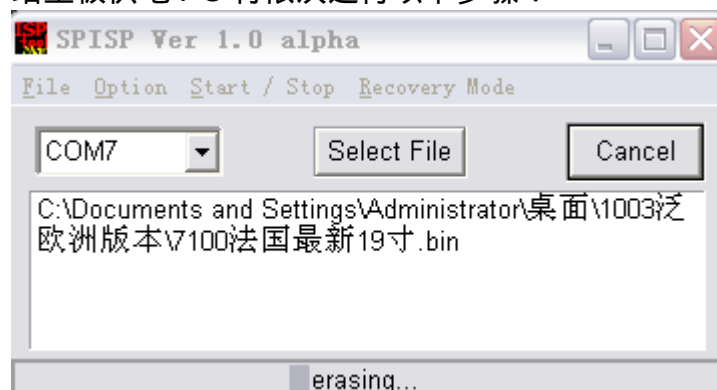
双击在 COM 下拉选项中选择合适的 COM 口（可参看：我的电脑|设备管理器|端口的信息，如下图



点击“Select File”，选择要烧录的 BIN 文件，再点击“Start”，会出现以下对话框

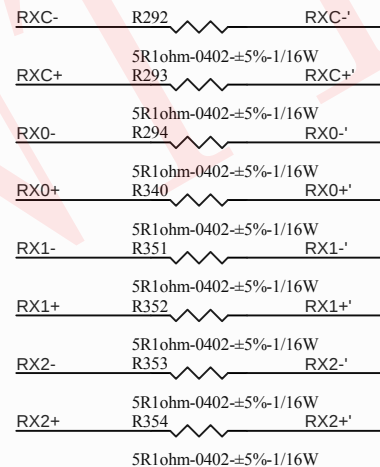
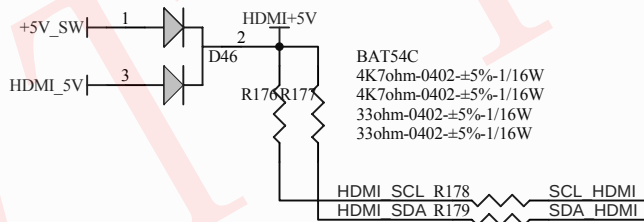
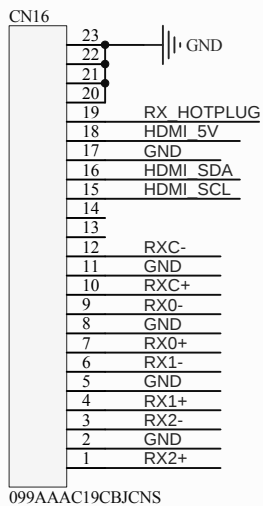


给主板供电 PC 将依次运行以下步骤：



升级完毕。
拔掉电源接口，移去升级工具板，再重新插上电源即可，





1uF-0603-Y5V-+80%-20%-10V
SGMR10-SXN3L /// NC/STL8110GCH300
100Kohm-0402-±5%-1/16W
1Kohm-0402-±5%-1/16W
+3.3V_STB

ICV10518030FR
27pF-0402-NPO-±5%-50V
27pF-0402-NPO-±5%-50V
14.318MHz-±30PPM-20PF-HC-49S
1Mohm-0402-±5%-1/16W
470ohm-0402-±5%-1/16W

HWRESET

A

B

C

D

U14

SCL_HDMI_I11
SDA_HDMI_I12
RXC- 119
RXC+ 120
RX0+ 121
RX0+ 122
RX1+ 124
RX1+ 125
HPD_CON 126
RX2+ 127
RX2+ 128

DDCDB_CK
DDCDB_DA
RXACKN
RXACKP
RXA0N
RXA0P
RXA1N
RXA1P
HPLUGA
RXA2N
RXA2P

YPbPr_Pb_IN 2
YPbPr_SOG 3
YPbPr_Y_IN 4
YPbPr_Pr_IN 6
PC_HSIN 8
B_IN 9
Y_IN 11
Y_SOG 12
R_IN 13
PC_VSIN/FB 14

CVBS3P
CVBS2P
CVBS1P
CVBS0P
VCOM0
CVBSOUT

VIF1 30
VIF2 31
SIF2 32
SIF1 33

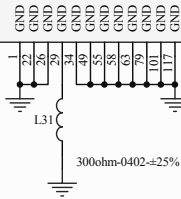
VR27
TAGC

PC_ALI 39
PC_ARI 40
AV_L1 41
AV_R1 42
MUX_L 43
MUX_R 44

AUCOM
AUVRM
AUVRP
AUVREF

DAC_OUT_0L
DAC_OUT_0R
SCART_LOU2
SCART_ROL2

4.7uF-0603-X5R-±10%-10V
1uF-0603-Y5V-+80%-20%-10V
10uF-0805-X5R-±10%-6.3V
0.1uF-0402-Y5V-+80%-20%-16V



TSUMV26KE-LF

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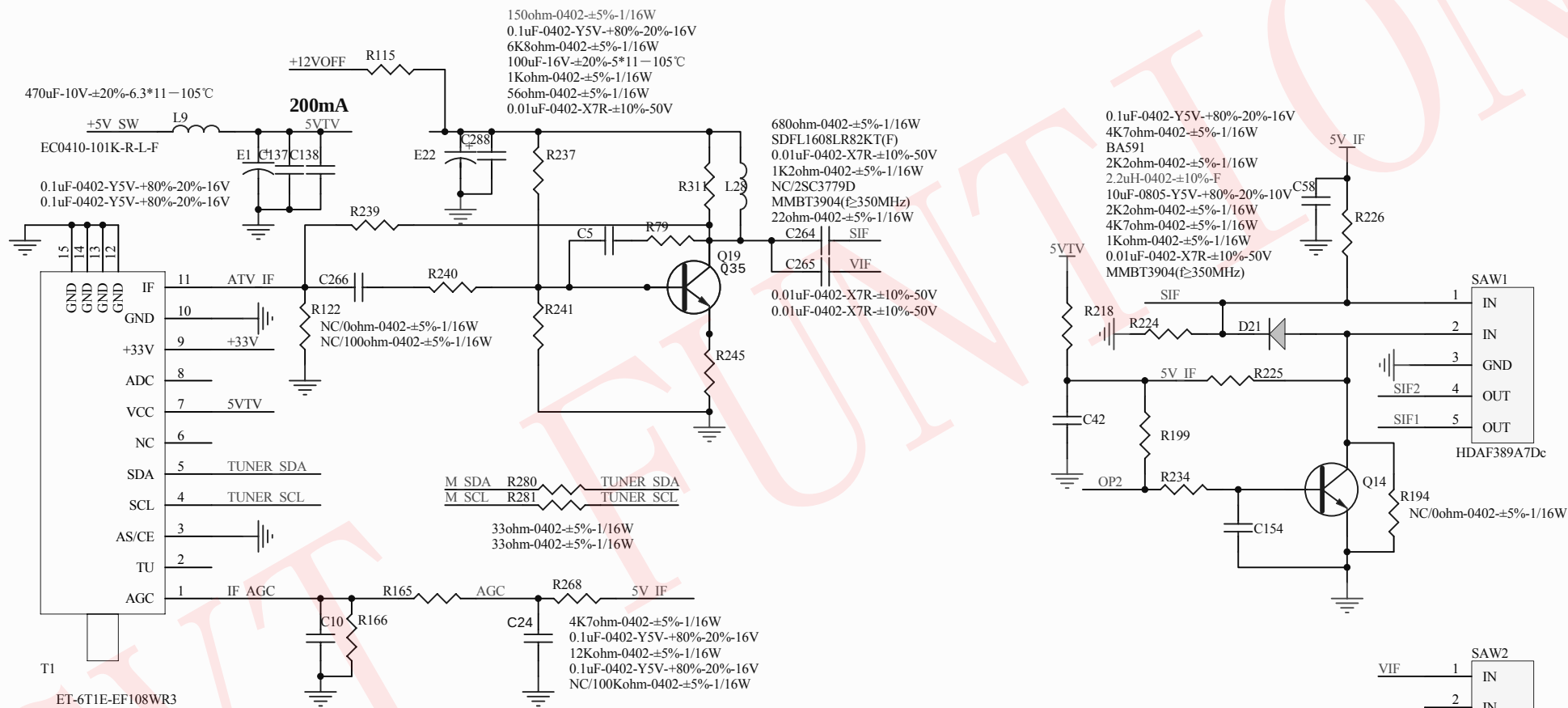
A

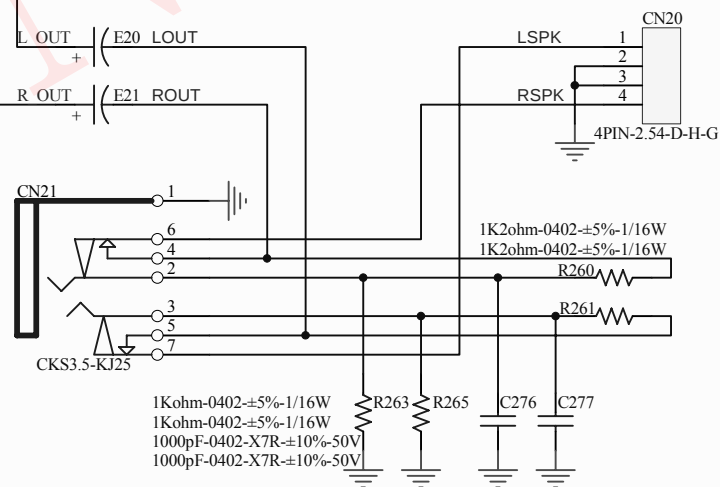
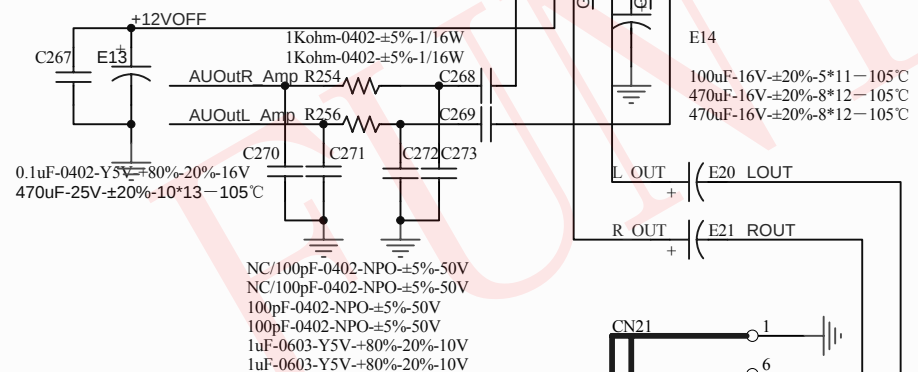
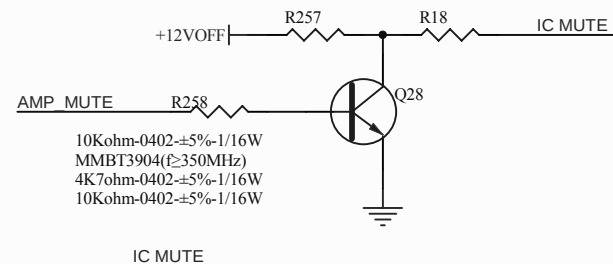
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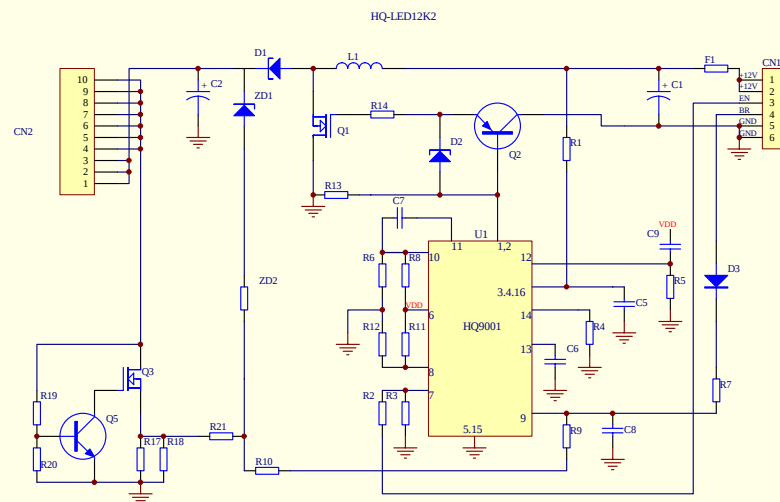
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