

INDEX

Schematics Index:

- 01 Index
- 02 CM-STM32F429IG
- 03 Ethernet
- 04 Audio Codec
- 05 PWR-TF-LED-KEY
- 06 LCD
- 07 Debug
- 08 USB-232-485-CAN

REVISION HISTORY

Rev	Description	Date	Drawn	Checked	Approved
V1.0	Initial	2014-08-11	Thomas	Thomas	
V1.1	Modify the Ethernet and Audio Codec Circuit	2015-04-22	Thomas	Thomas	



SOM-STM32F429IG

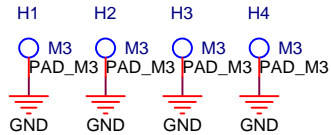
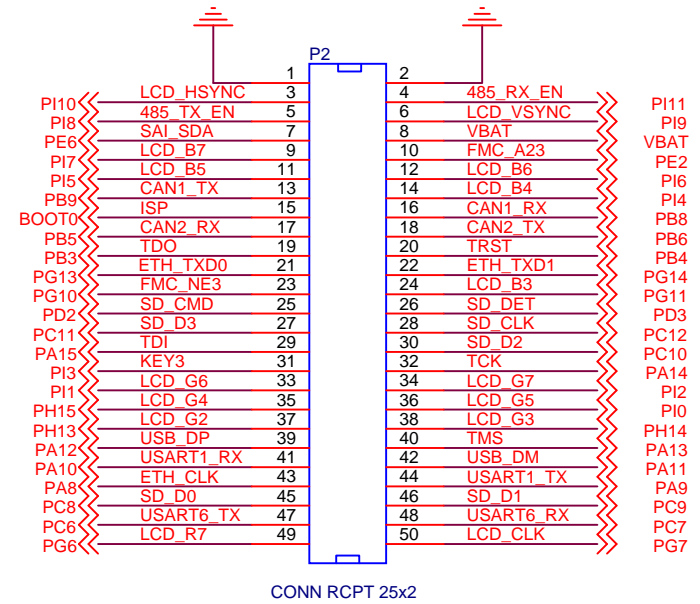
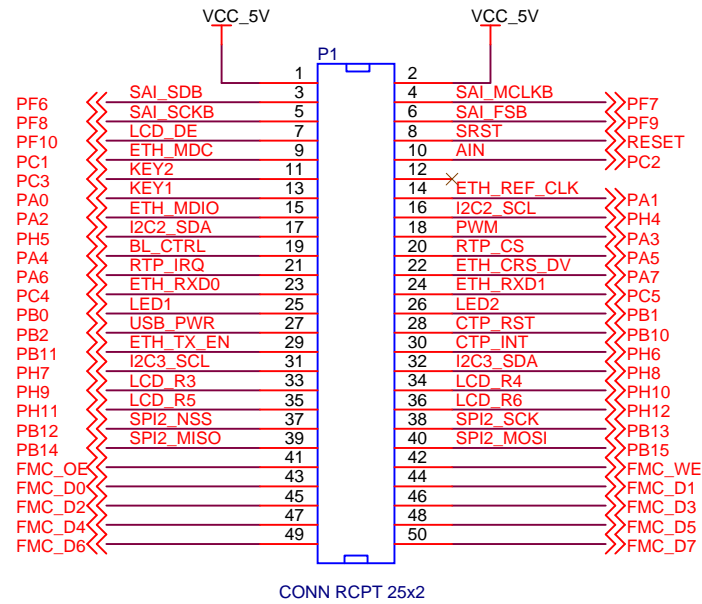
Designed by HAOYU Electronics

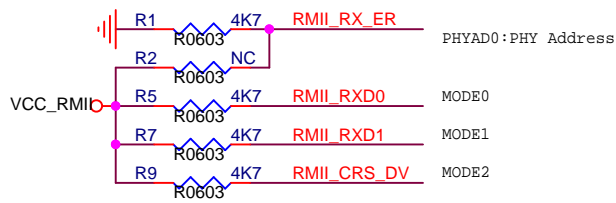
www.PowerMCU.com

www.HotMCU.com

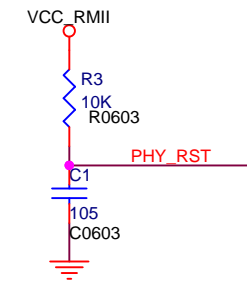
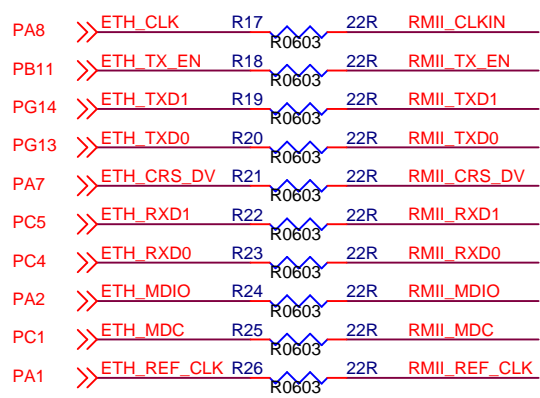
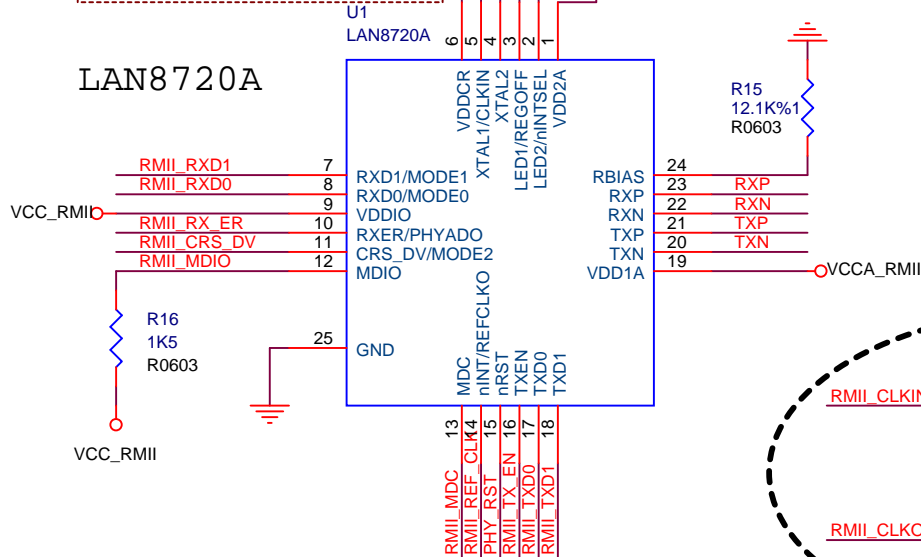
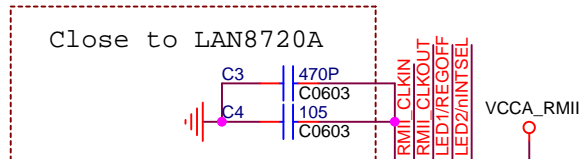
HAOYU Electronics	
Title: SOM-STM32F429IG	
File: INDEX	REV: 1.1
Create Date: Monday, August 11, 2014	Page Num: 1
Modify Date: Thursday, April 23, 2015	Page Total: 8

Extention Interface

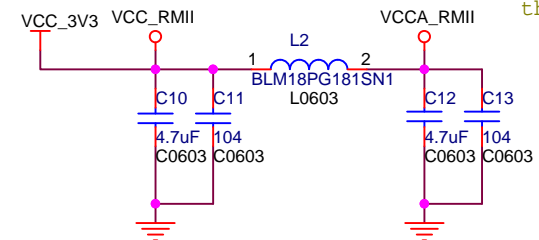
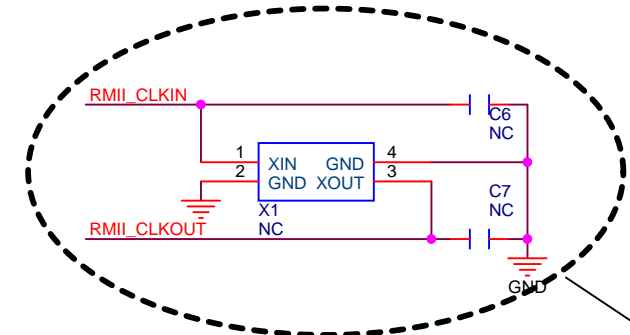
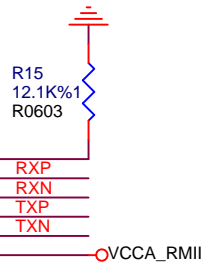




MODE(0-2):111
ALL capable,Auto-negotiation enabled

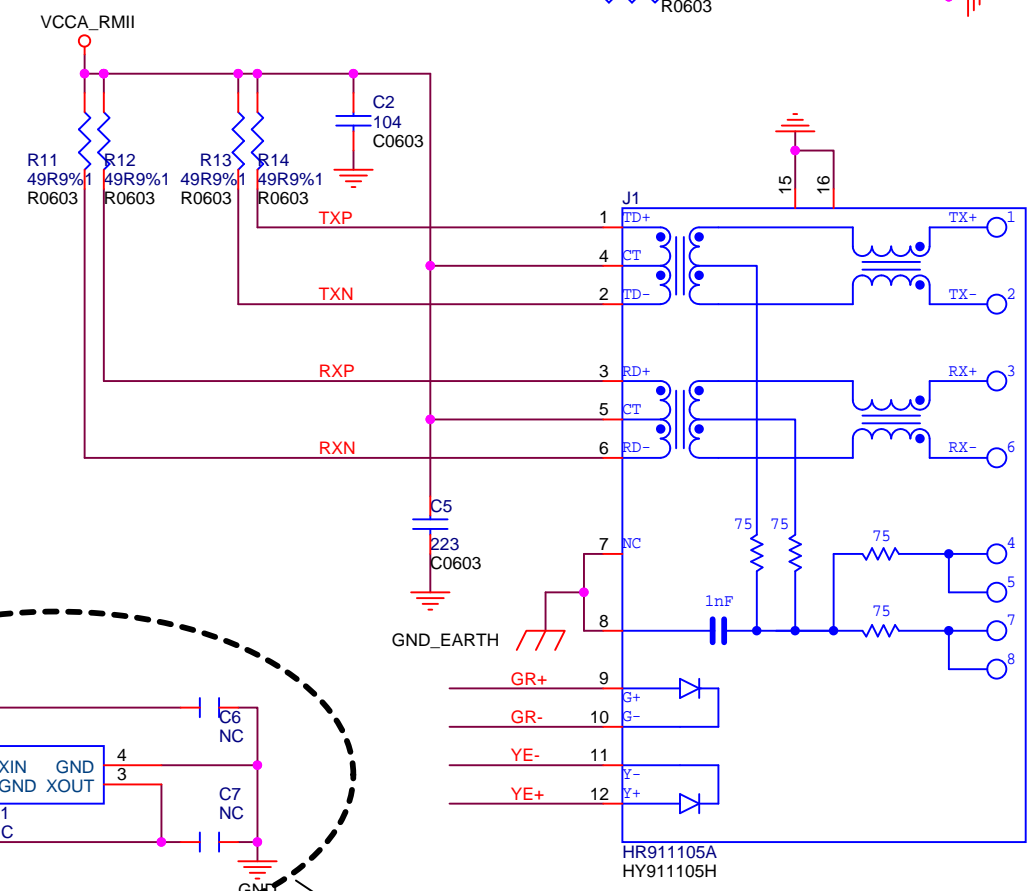
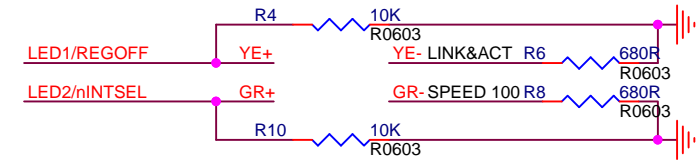


NOTE:
Place 49.9 ohm resistors(0603) near LAN8720A.

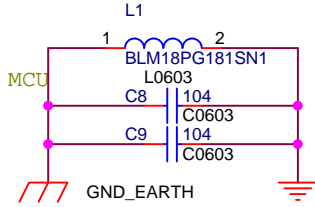


LAN8720A POWER

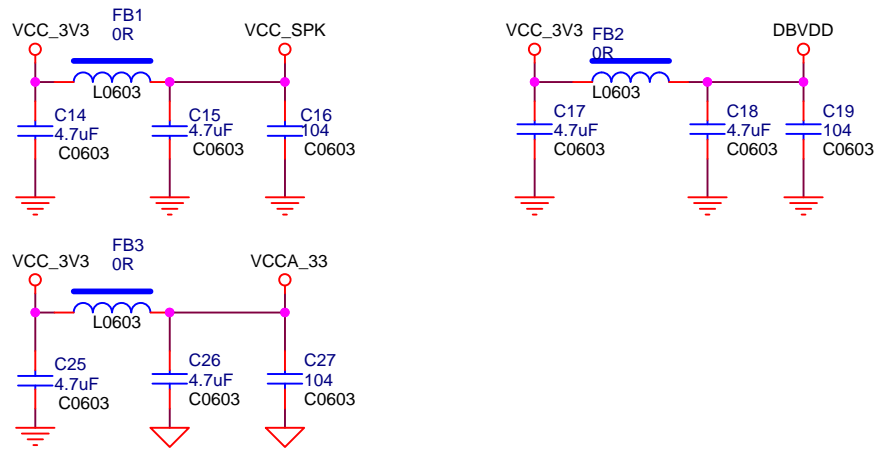
REGOFF=0:Internal +1.2V regulator ON
nINTSEL=0:REF_CLK Out Mode



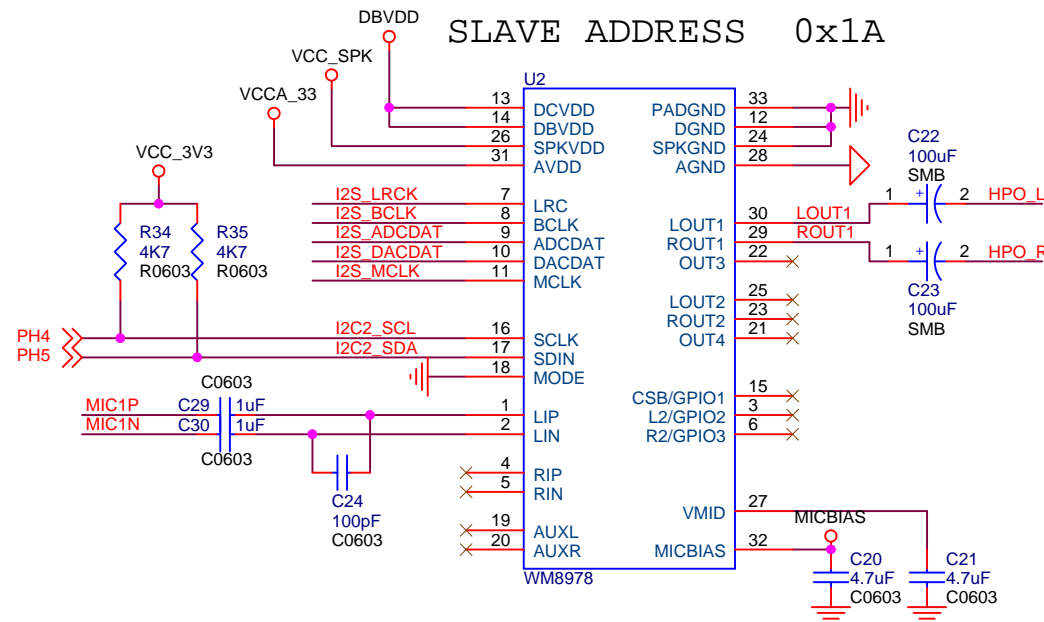
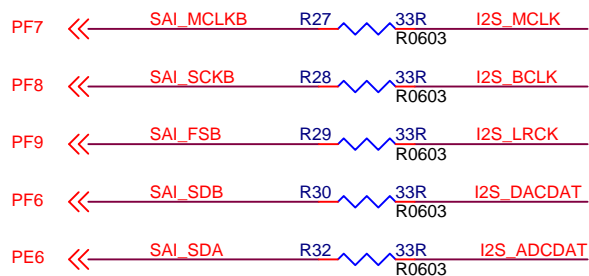
If the PHY 25M clock is provided by MCU then don't solder



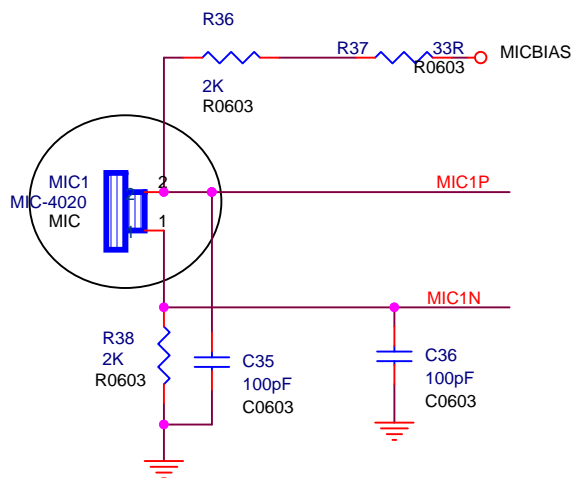
HAOYU ELECTRONICS
HAOYU Electronics
Title: SOM-STM32F429IG
File: Ethernet REV:1.1
 Create Date: Monday, August 11, 2014 Page Num:3
 Modify Date: Thursday, April 23, 2015 Page Total: 8



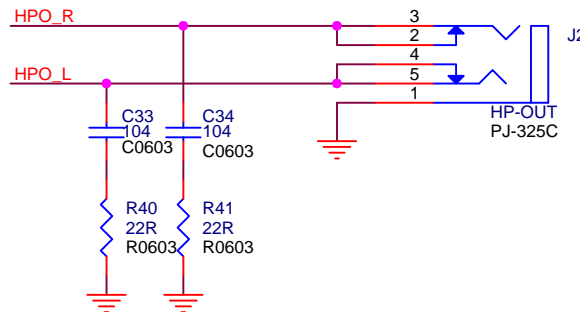
Audio Codec Power



Audio Codec

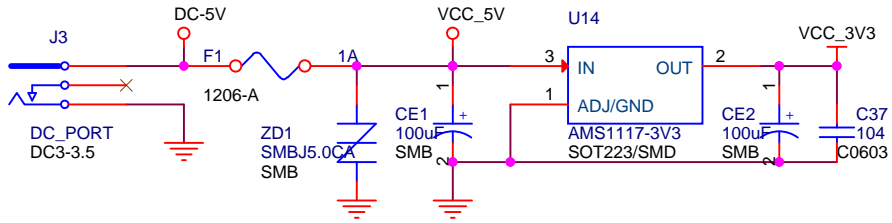


MIC Input

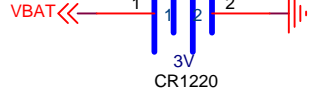


HPhone Output

		HAOYU Electronics	
Title: SOM-STM32F429IG			
File: Aduio Codec			REV: 1.1
Create Date: Saturday, August 23, 2014		Page Num: 4	
Modify Date: Thursday, April 23, 2015		Page Total: 8	

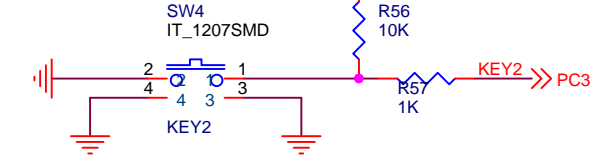
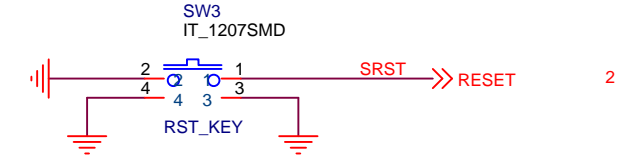
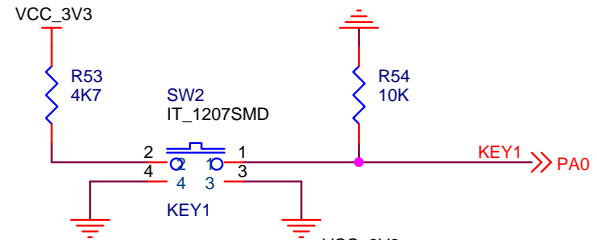
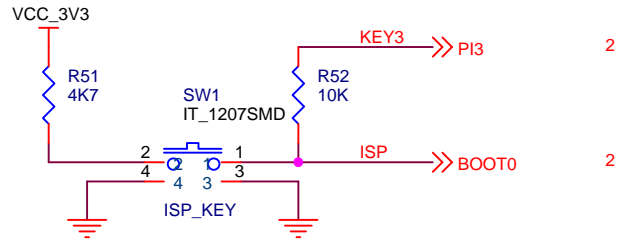
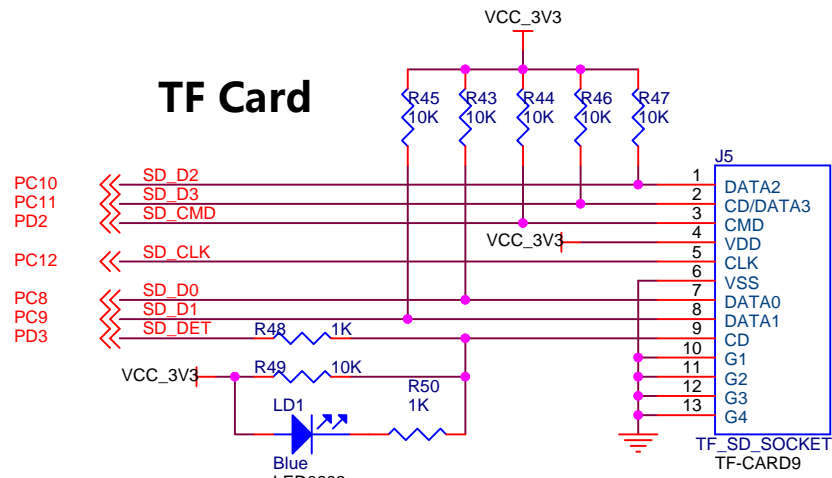


DC 5V/1A Input

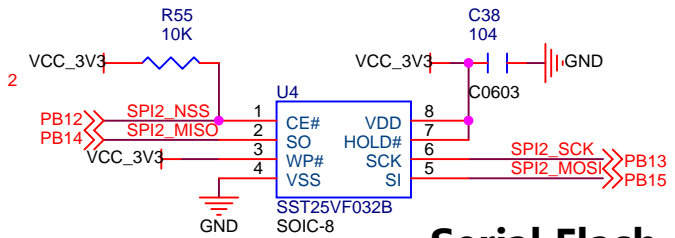


RTC BAT

TF Card

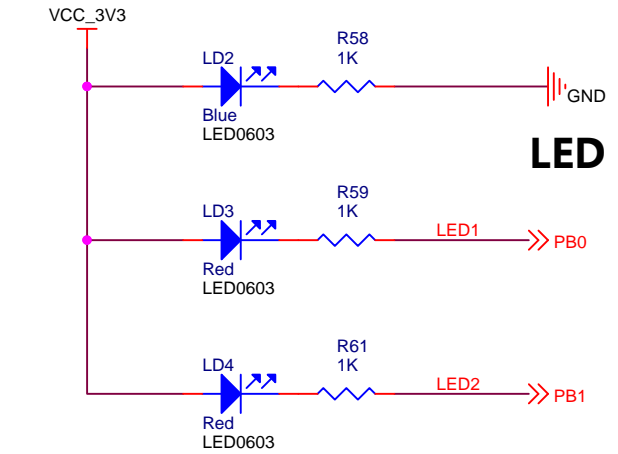


Key

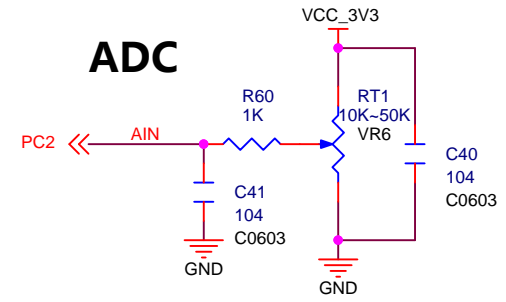


Serial Flash

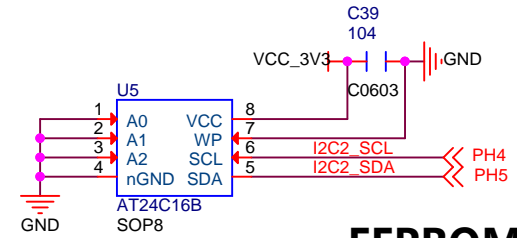
Serial Flash used for storing the fonts, image or user setting parameters etc.



LED



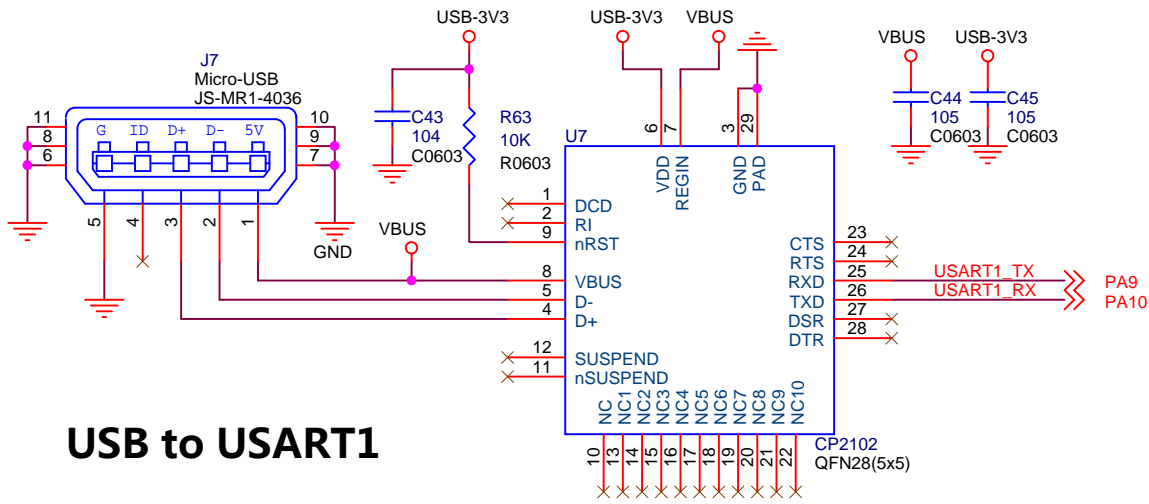
ADC



EEPROM

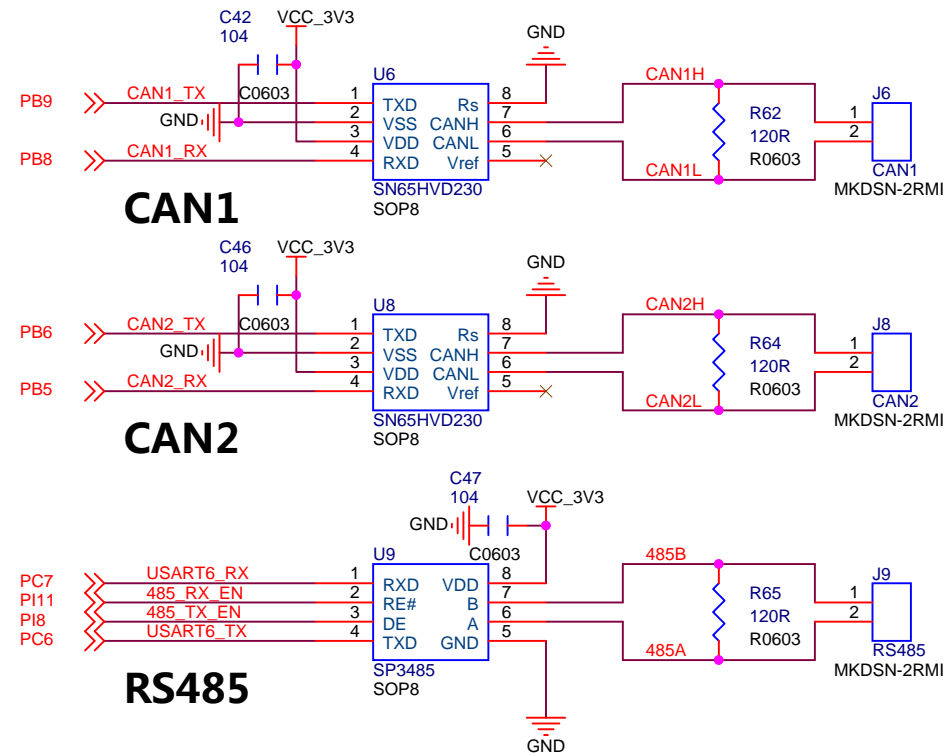
EEPROM used for storing the MAC address or Setting parameters.

HAOYU ELECTRONICS		HAOYU Electronics	
Title: SOM-STM32F429IG			
File: PWR-TF-LED-KEY			REV: 1.1
Create Date: Saturday, August 23, 2014		Page Num: 5	
Modify Date: Thursday, April 23, 2015		Page Total: 8	



USB to USART1

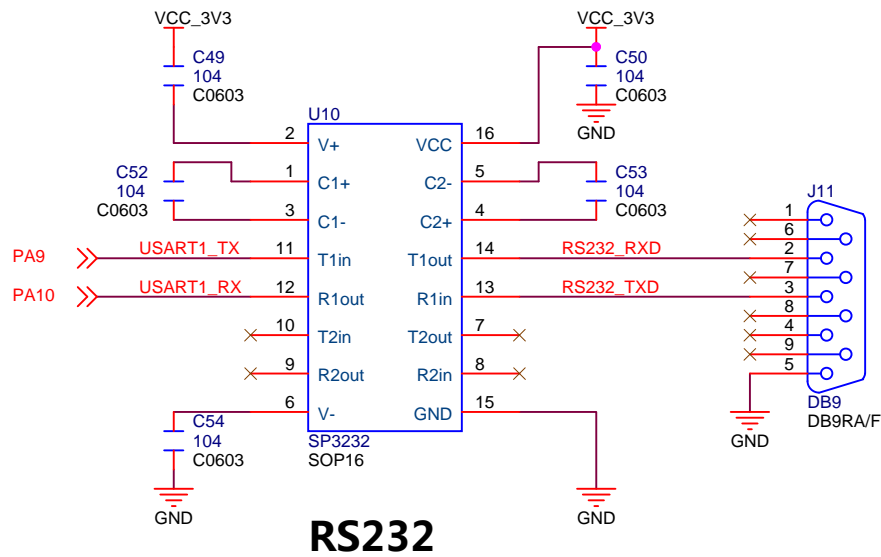
Note: Used for Download and Debug



CAN1

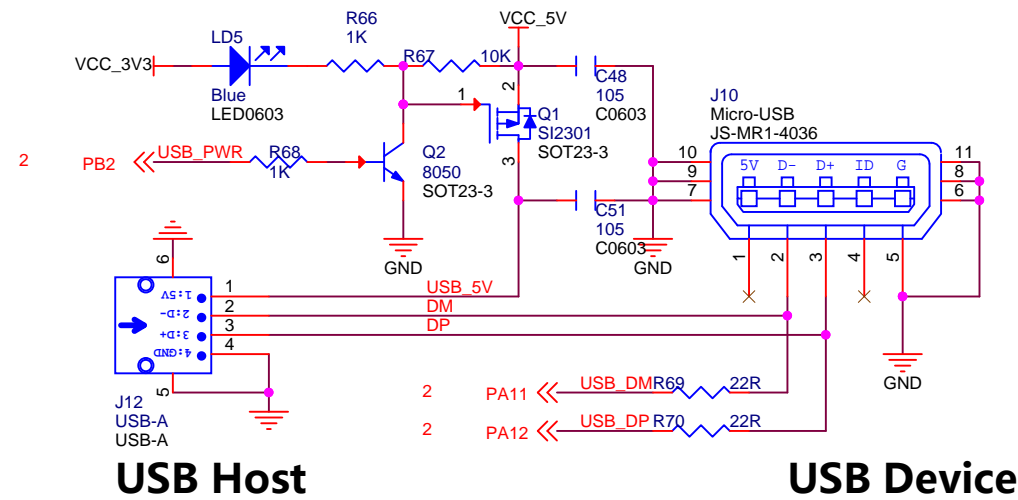
CAN2

RS485



RS232

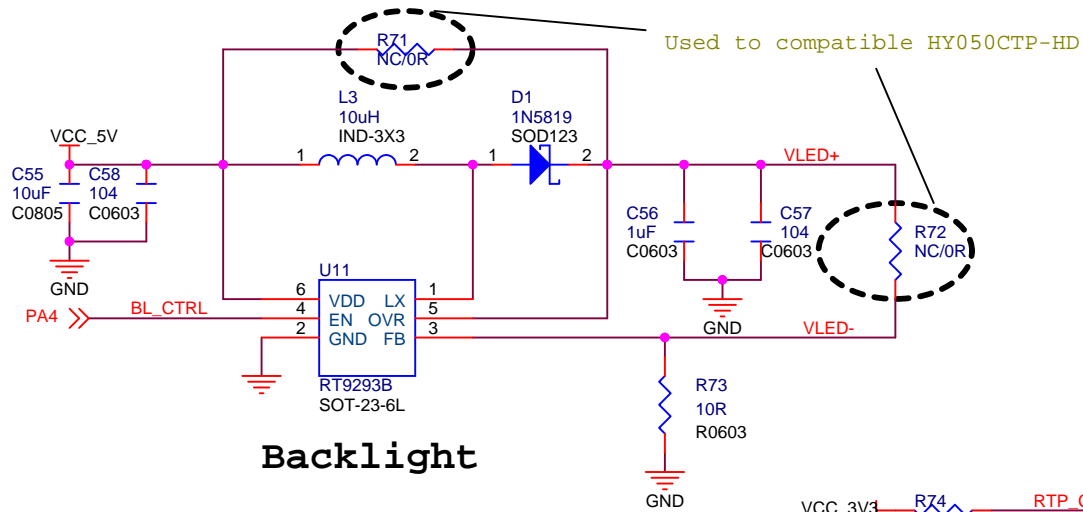
Note: Used for Download and Debug



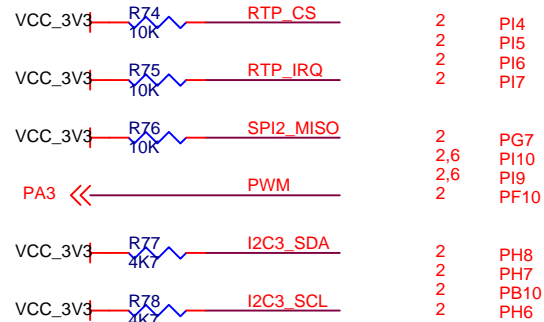
USB Host

USB Device

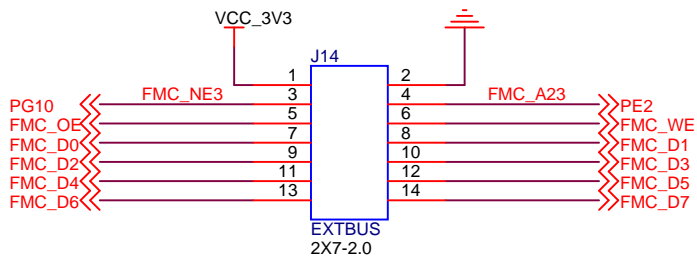
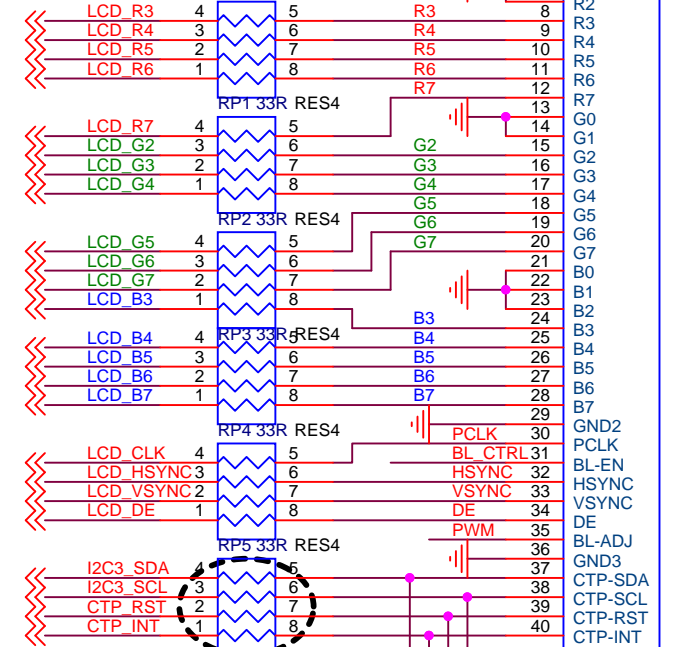
HAOYU ELECTRONICS		HAOYU Electronics	
Title: SOM-STM32F429IG			
File: USB-232-485-CAN			REV: 1.1
Create Date: Saturday, August 23, 2014		Page Num: 6	
Modify Date: Thursday, April 23, 2015		Page Total: 8	



Backlight

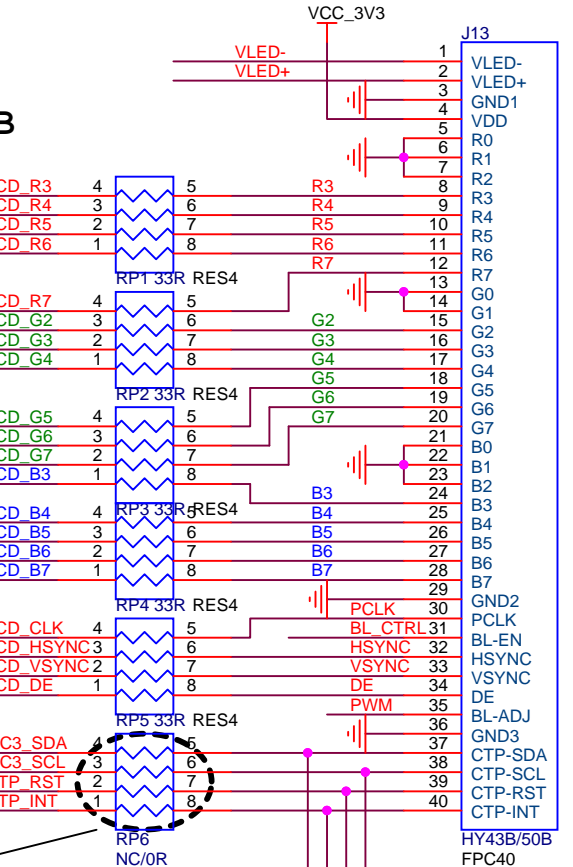
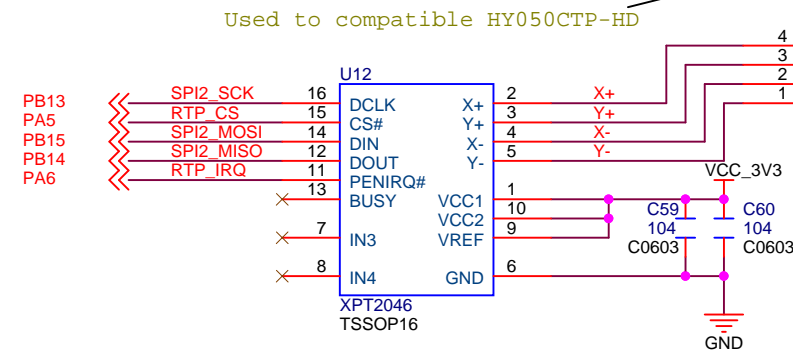


RGB



8 bit bus interface

Read Address: 0x67000000
Write Address: 0x67000002



HAOYU ELECTRONICS		HAOYU Electronics	
Title: SOM-STM32F429IG			
File: LCD-EXTBUS			REV: 1.1
Create Date: Monday, August 11, 2014		Page Num: 7	
Modify Date: Thursday, April 23, 2015		Page Total: 8	

NC :Enable the USB-MiniJTAG connection.
 OR: Disable the USB-MiniJTAG connection.

