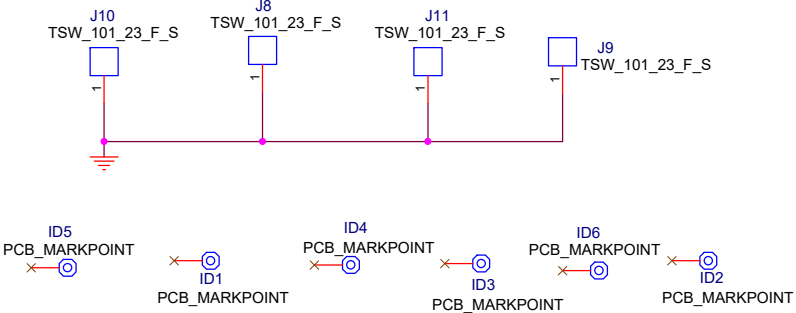
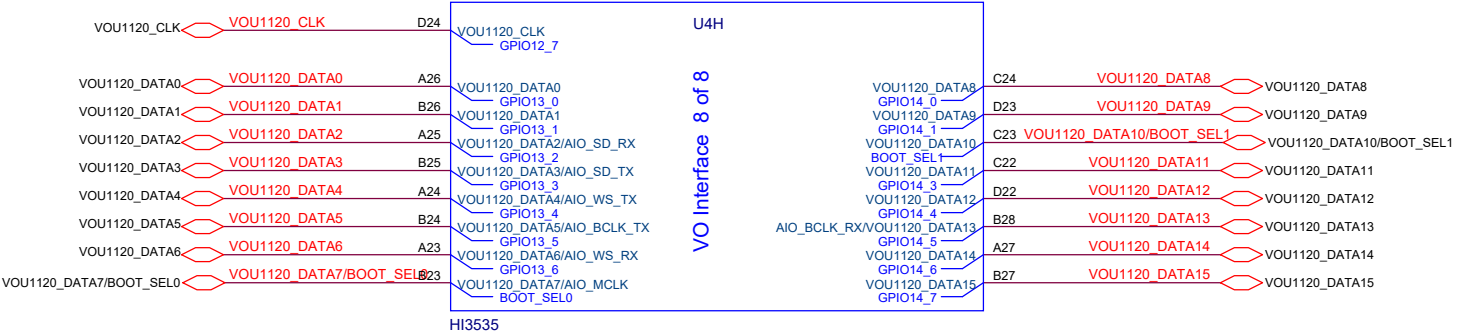


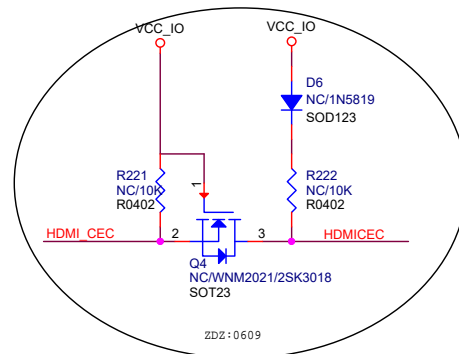
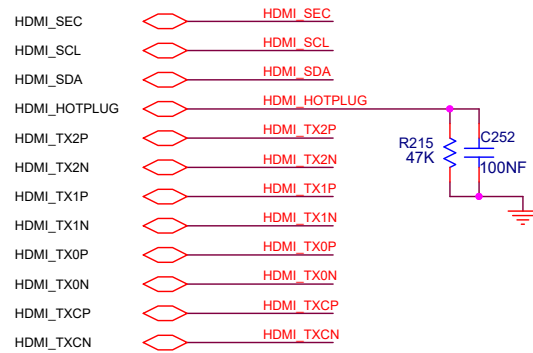


VO

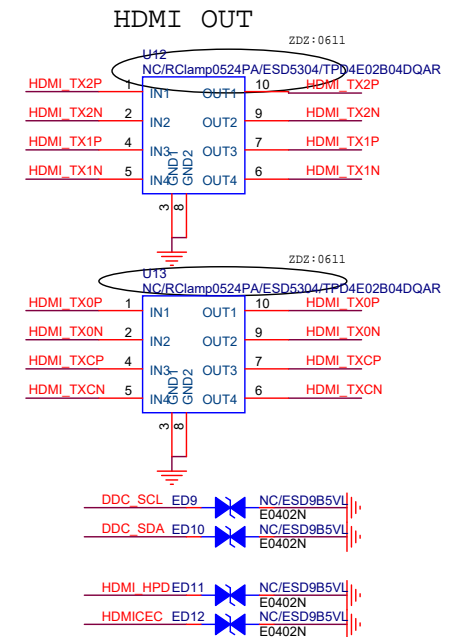
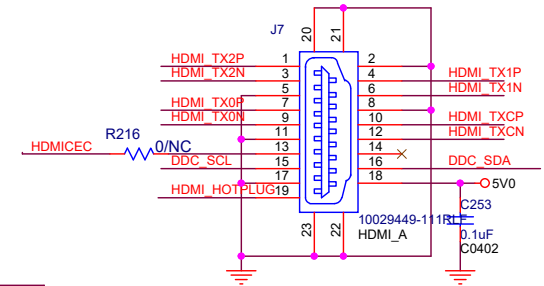
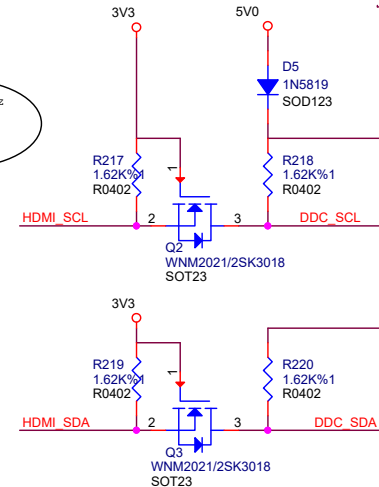


# HDMI

The HDMI differential trace impedance is 100 OHM.  
The HDMI trace length is less than 5 inch.

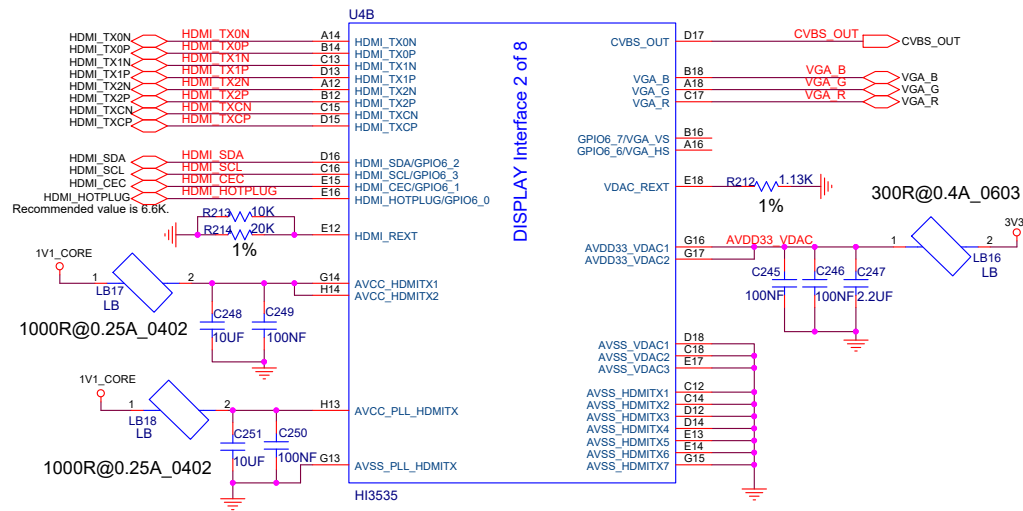


04.22 zdz



# DISPLAY

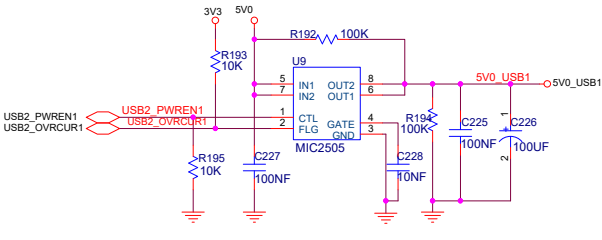
Put 75 OHM Resistors close to HI3535



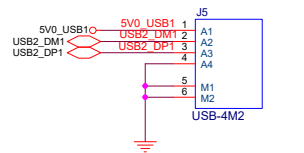
# USB & SATA

The USB differential trace impedance is 90 OHM.  
The USB trace length is less than 5 inch.

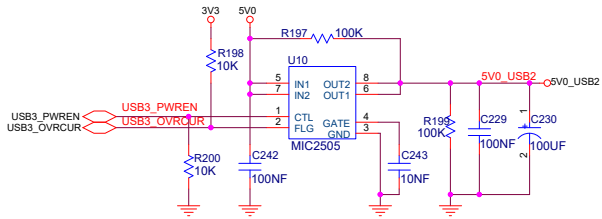
The SATA differential trace impedance is 100 OHM.  
The SATA trace length is less than 5 inch.



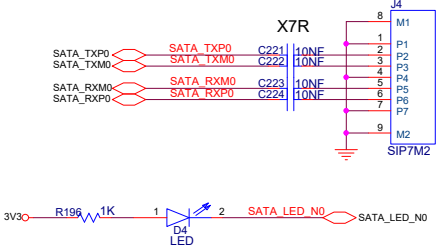
USB2.0 Port1



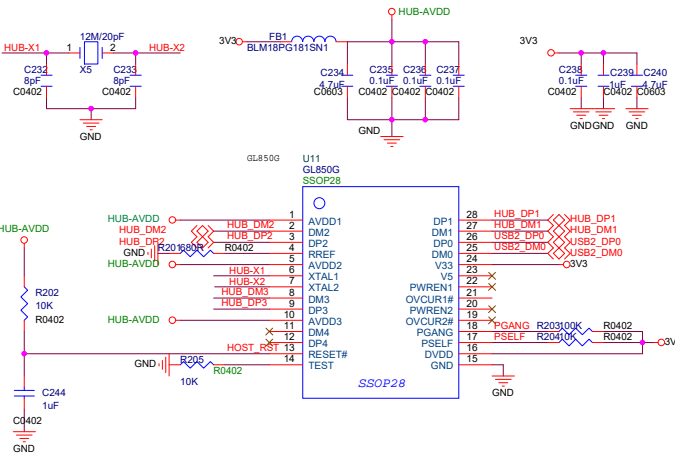
USB3.0



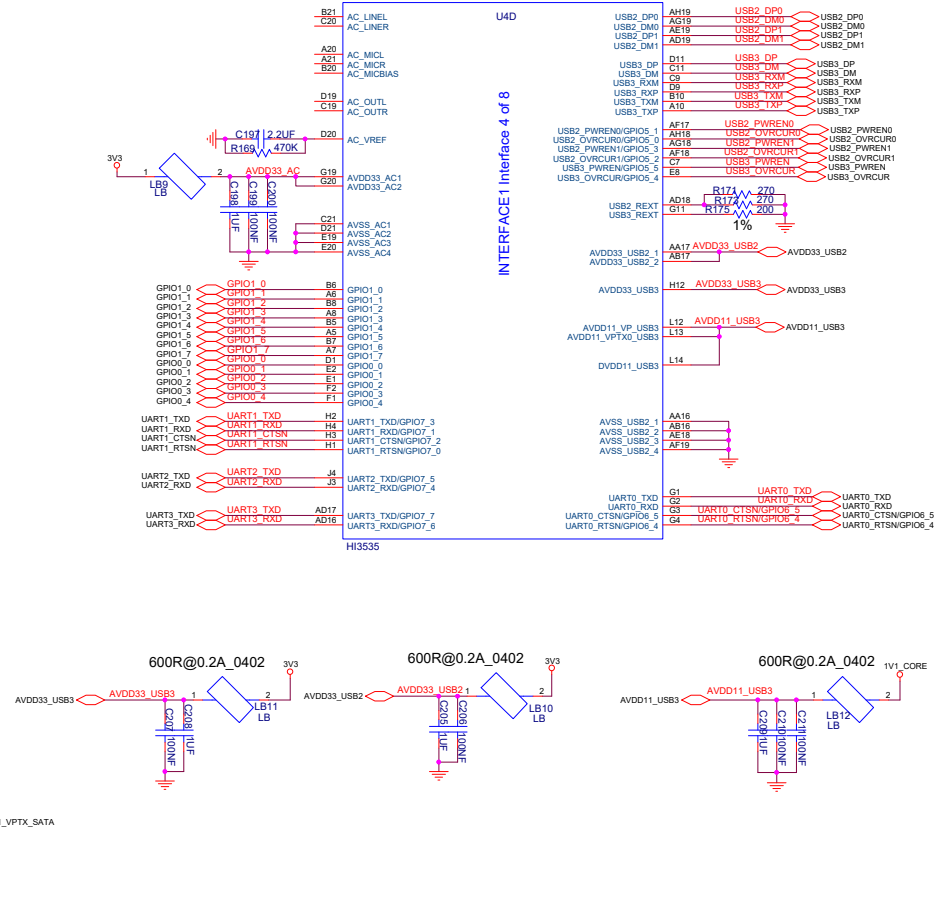
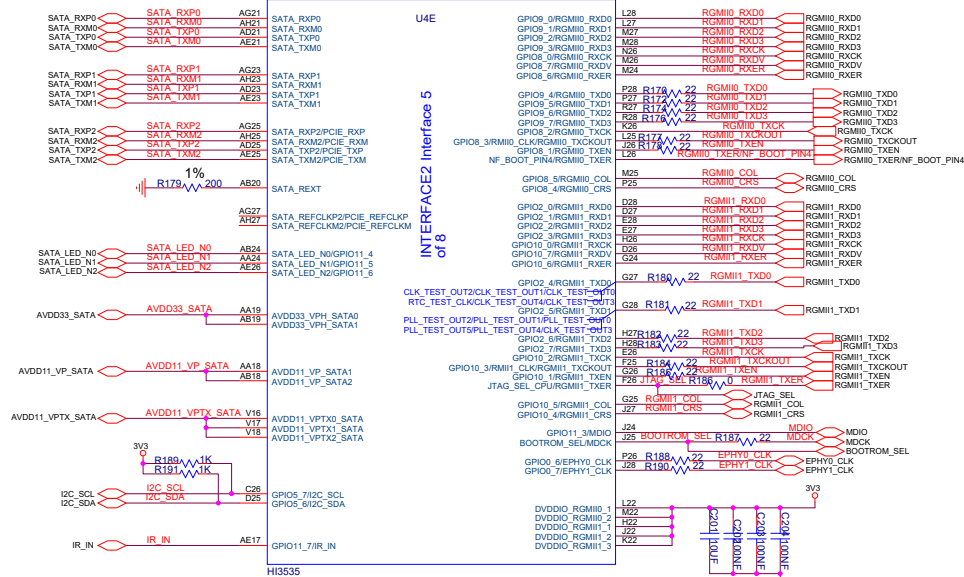
SATA3.0 Port0



USB HUB



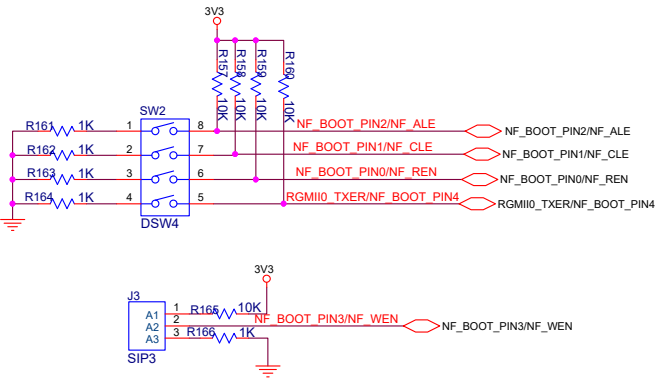
## Interface



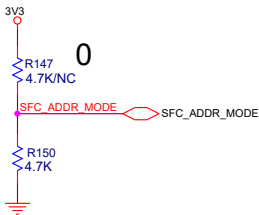
# Power on setting pins

## NF\_BOOT\_PIN[4:0]

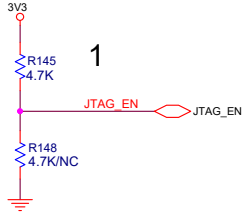
- 00011 2k page size,4bit ecc,64page/block,5addr
- 00100 4k page size,24bit ecc,256page/block,5addr
- 00101 2k page size,24bit ecc,64page/block,5addr
- 00111 8k page size,24bit ecc,256page/block,5addr
- 01000 4k page size,4bit ecc,128page/block,5addr
- 01001 4k page size,4bit ecc,64page/block,5addr
- 01010 2k page size,4bit ecc,64page/block,4addr
- 01011 4k page size,24bit ecc,128page/block,5addr
- 01101 8k page size,24bit ecc,128page/block,5addr
- 10000 8k page size,24bit ecc,64page/block,5addr
- 10001 4k page size,24bit ecc,64page/block,5addr
- 10101 2k page size,4bit ecc,128page/block,5addr
- 10110 2k page size,8bit ecc,128page/block,5addr
- 11001 2k page size,24bit ecc,128page/block,5addr
- 11010 2k page size,8bit ecc,64page/block,5addr
- 11110 4k page size,8bit ecc,64page/block,5addr
- 11111 4k page size,8bit ecc,128page/block,5addr



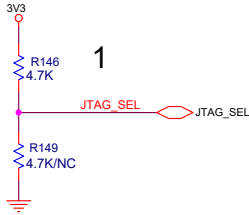
SFC_ADDR_MODE	
0	3 Byte mode
1	4 Byte mode



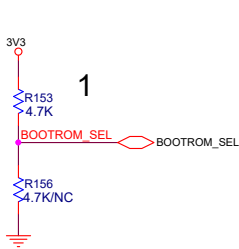
JTAG_EN	
0	Disable JTAG
1	Enable JTAG



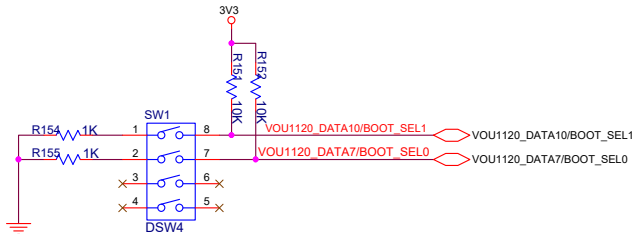
JTAG_SEL	
0	Other
1	CPU



BOOTROM_SEL	
0	Boot from BOOT_SEL
1	Boot from Bootrom

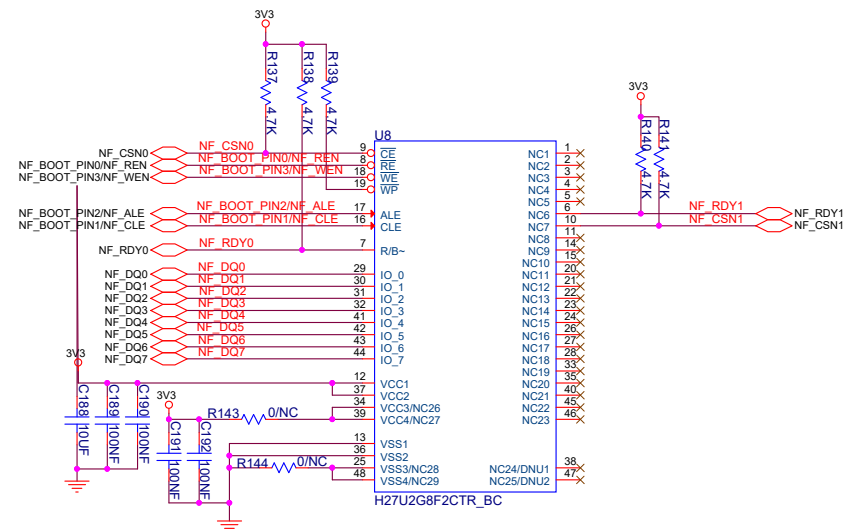
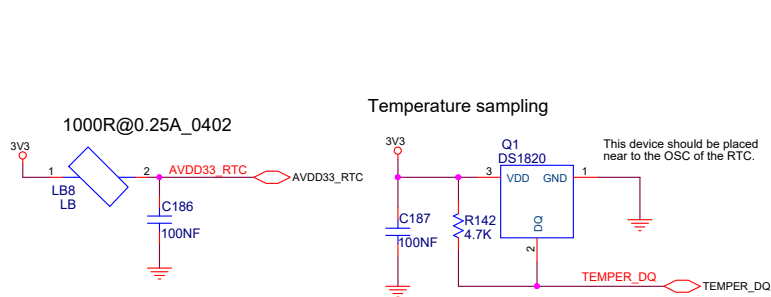
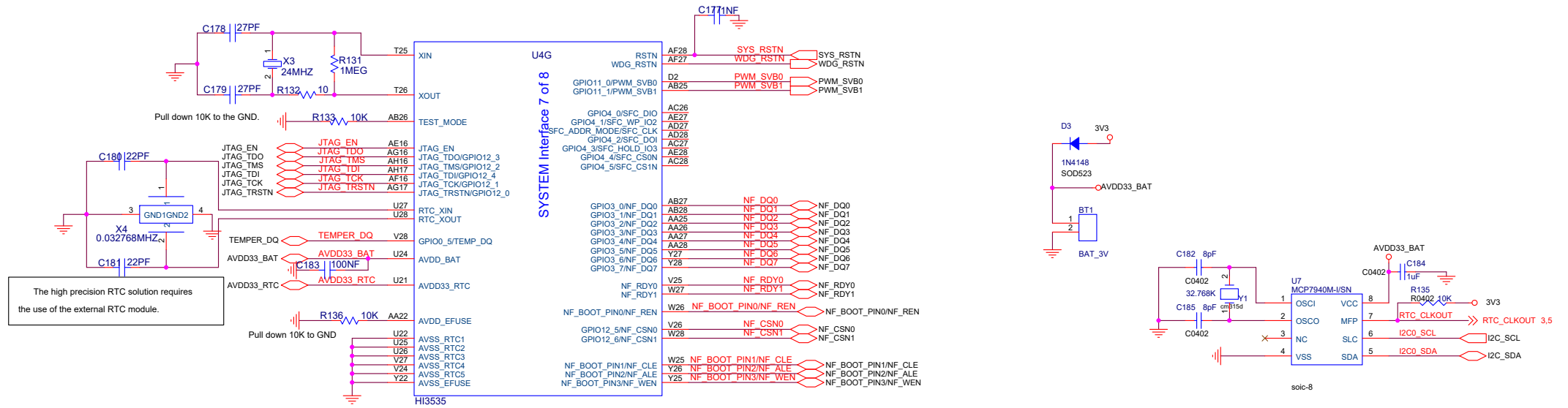


BOOT_SEL[1:0]	
00	SPI FLASH
01	DDR
10	NAND FLASH
11	Reserve



## SYSTEM & FLASH

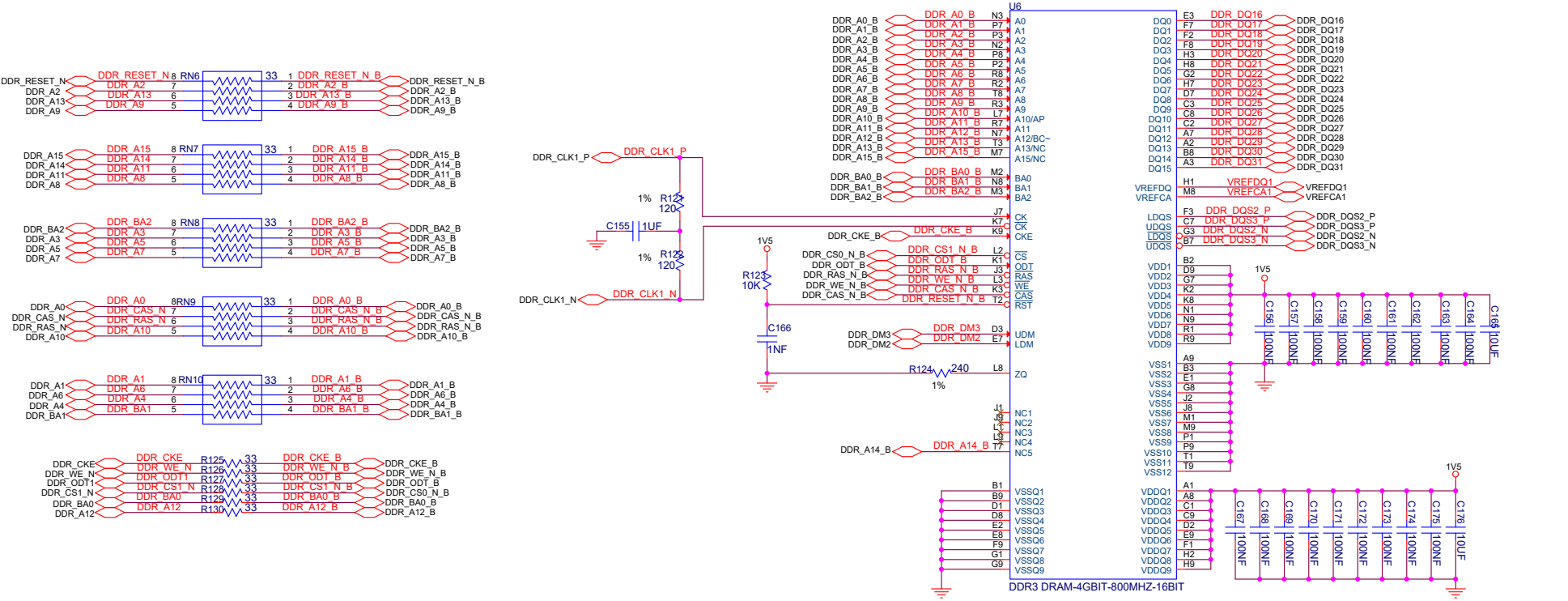
Put this cap close to the Hi3535.





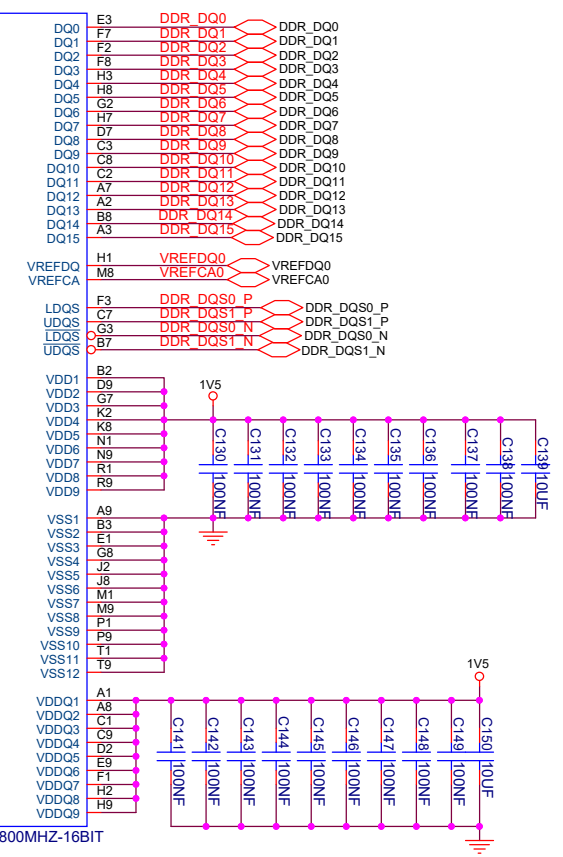
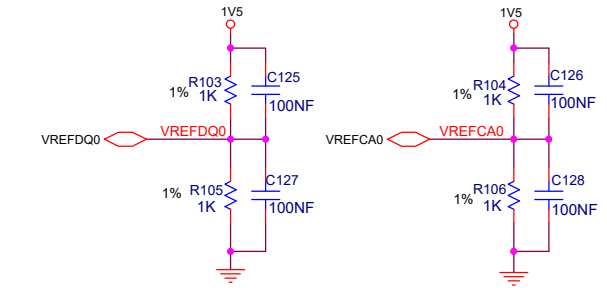
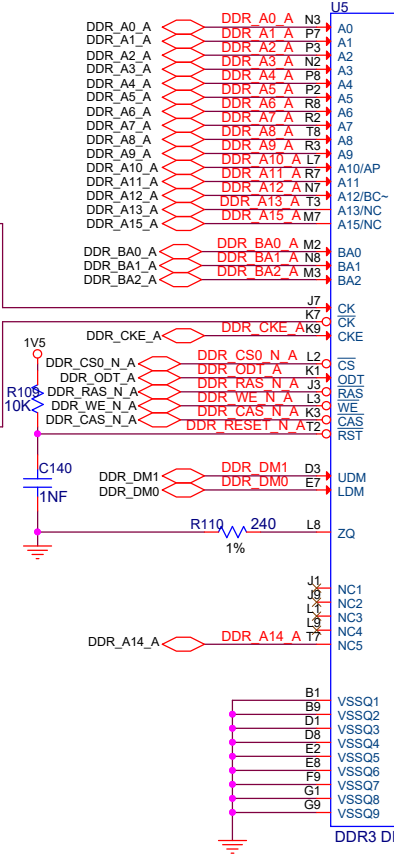
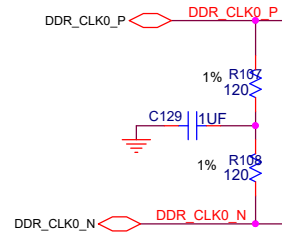
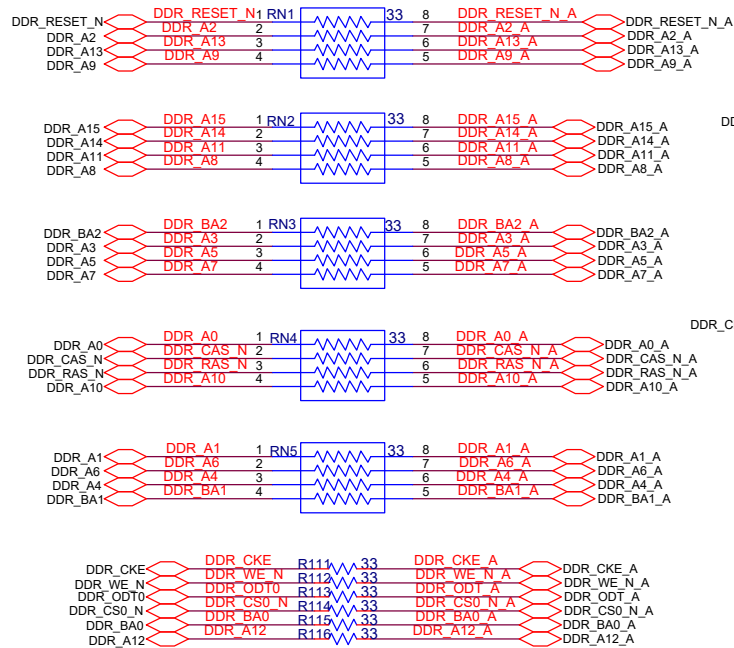
# DDR3\_B

The routing design of the DDR must be the same as that for the Hi3535 demo board.

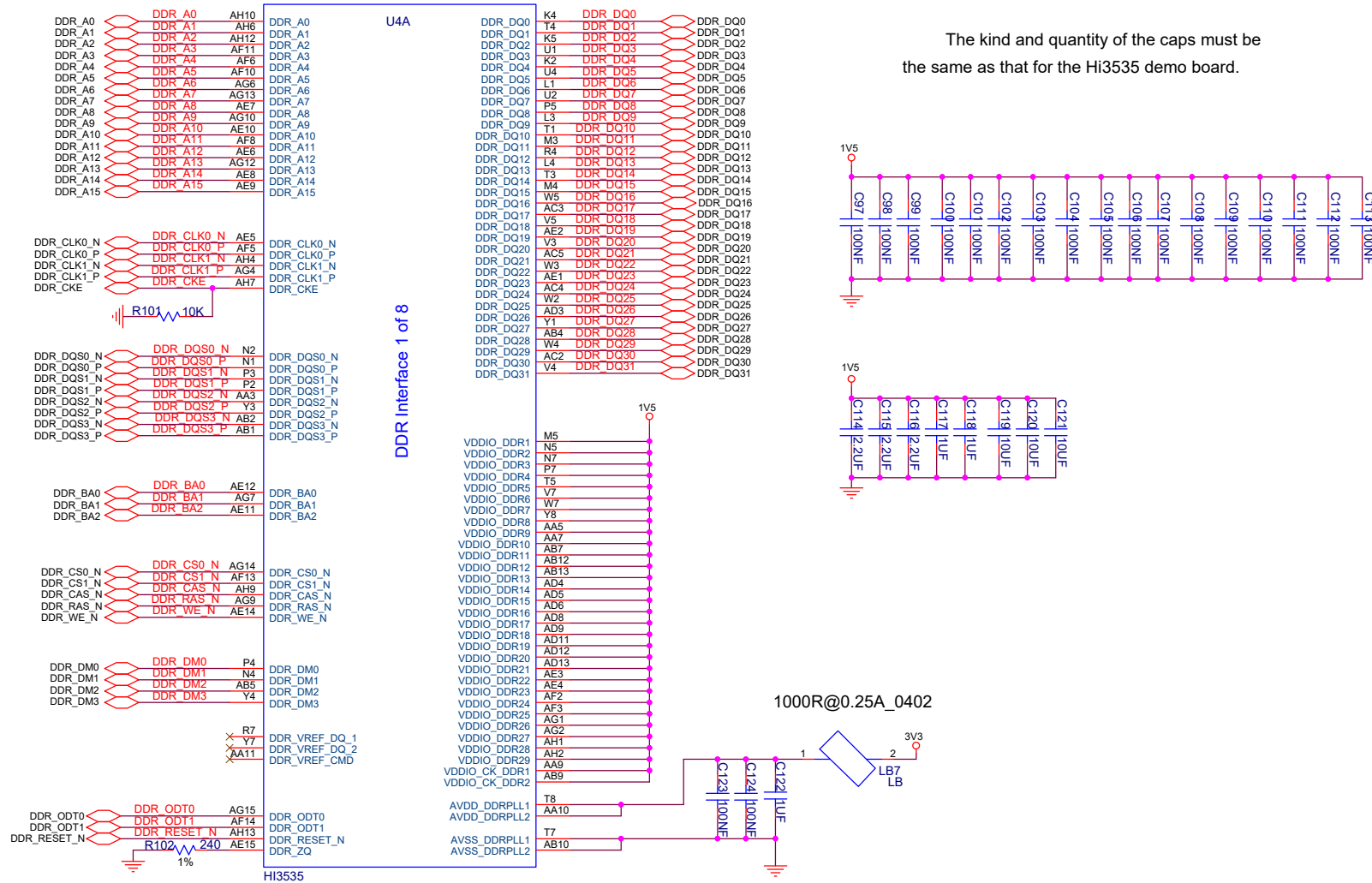


# DDR3\_A

The routing design of the DDR must be the same as that for the Hi3535 demo board.

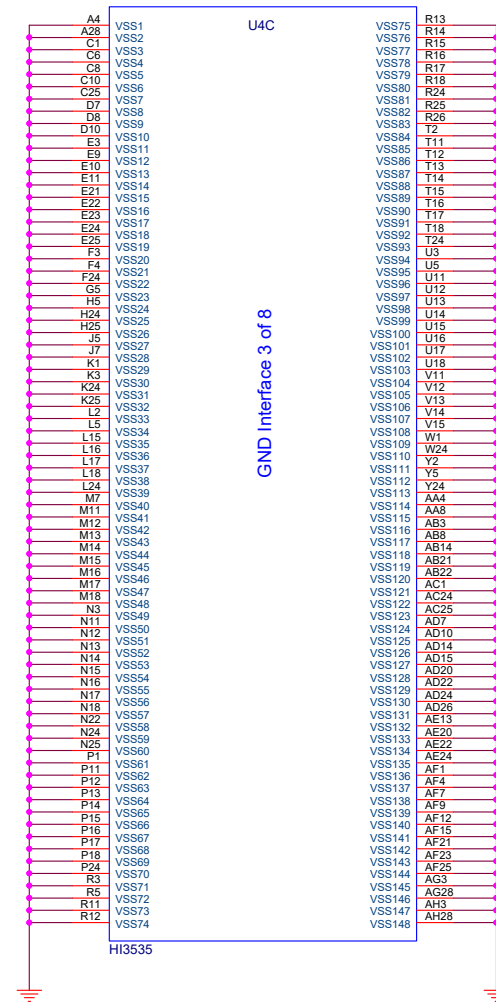
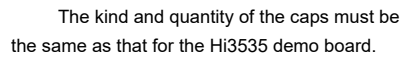


# HI3535 DDR3

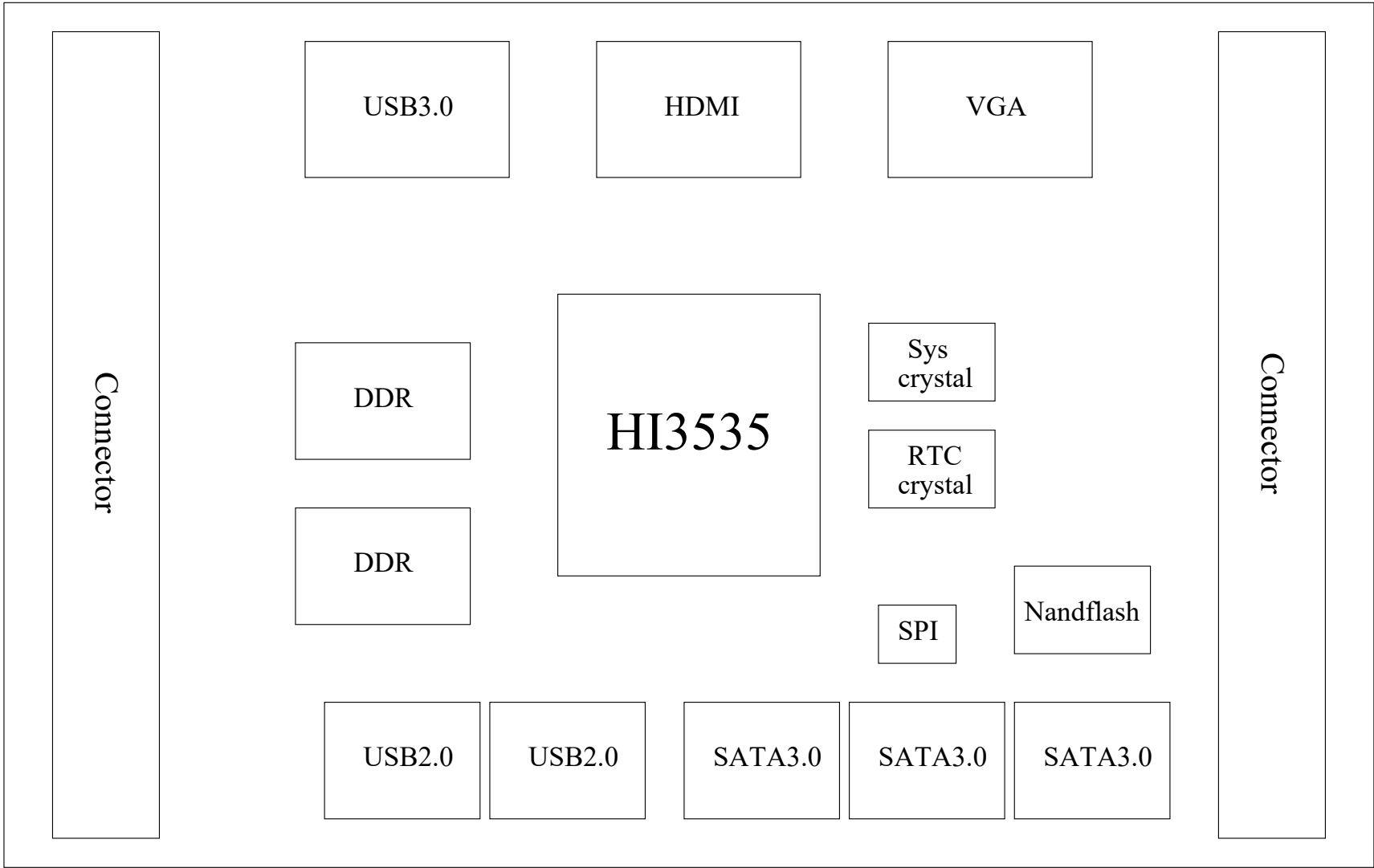


The kind and quantity of the caps must be the same as that for the Hi3535 demo board.

## 1000R@0.25A\_0402



# BLOCK DIAGRAM



# CHANGE LIST

2013.07.10 Ver.A schematic

2013.09.27 Change C144 C145 form 10nF to 100nF

01.Hi3535DMEB VER.A

02.CHANGE LIST

03.BLOCK DIAGRAM

04.POWER TREE

05.POWER & VSS

06.Hi3535 DDR3

07.DDR3\_A

08.DDR3\_B

09.SYSTEM & FLASH

10.POWER ON SETTING PINS

11.INTERFACE

12.USB & SATA

13.DISPLAY

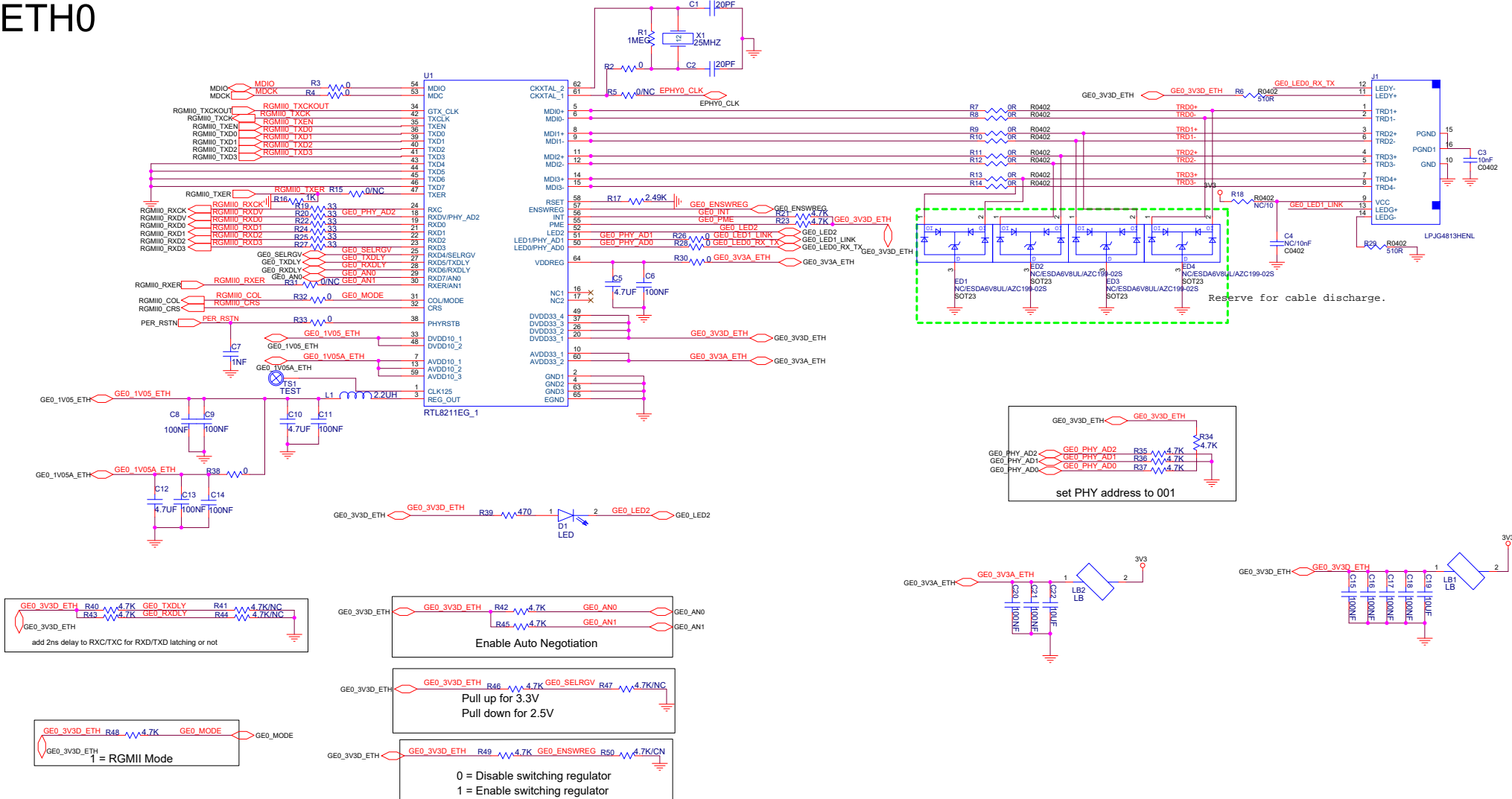
14.HDMI

15.VO

16.Connector

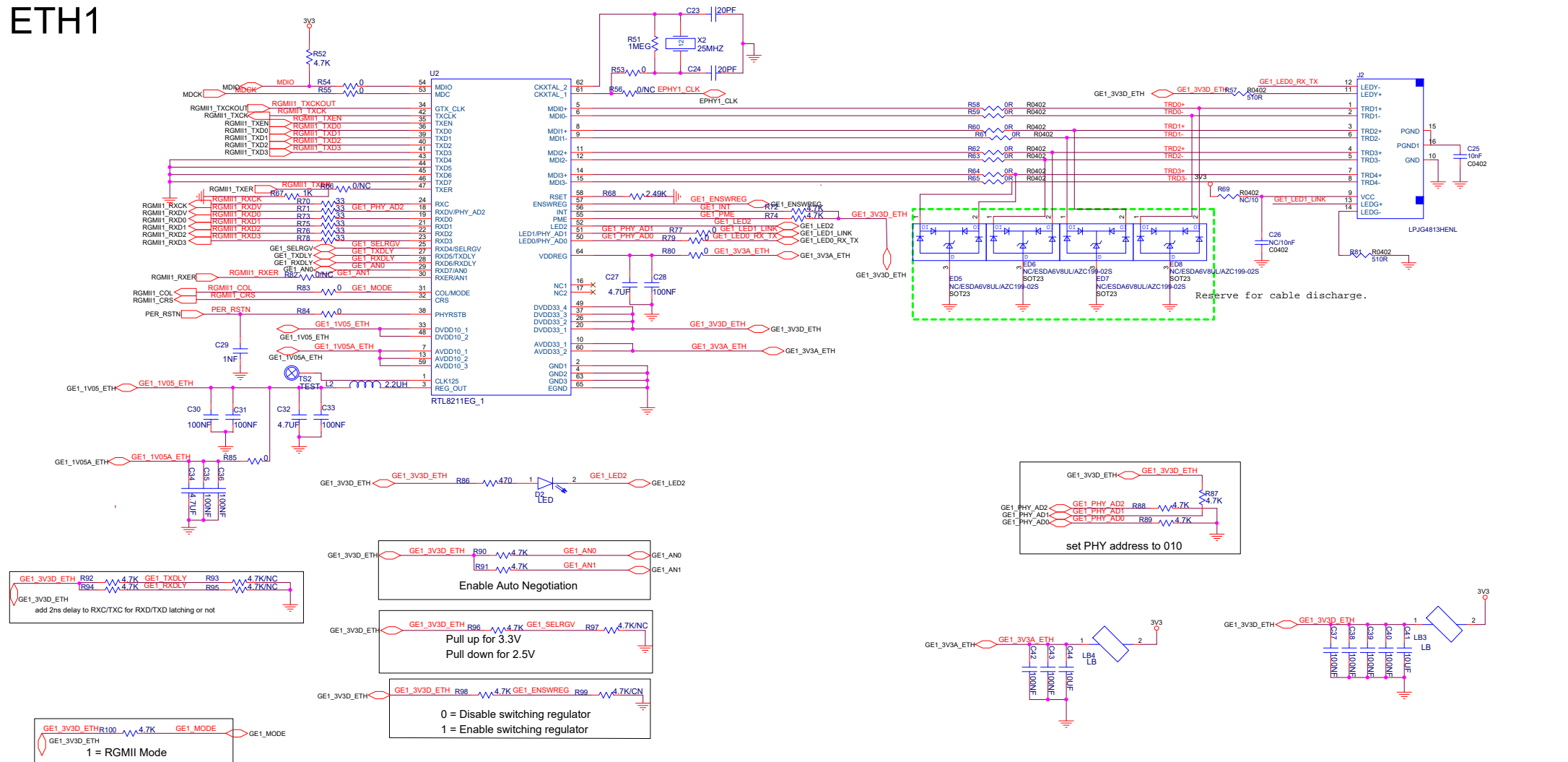
# Hi3535DMEB VER.A

# ETH0



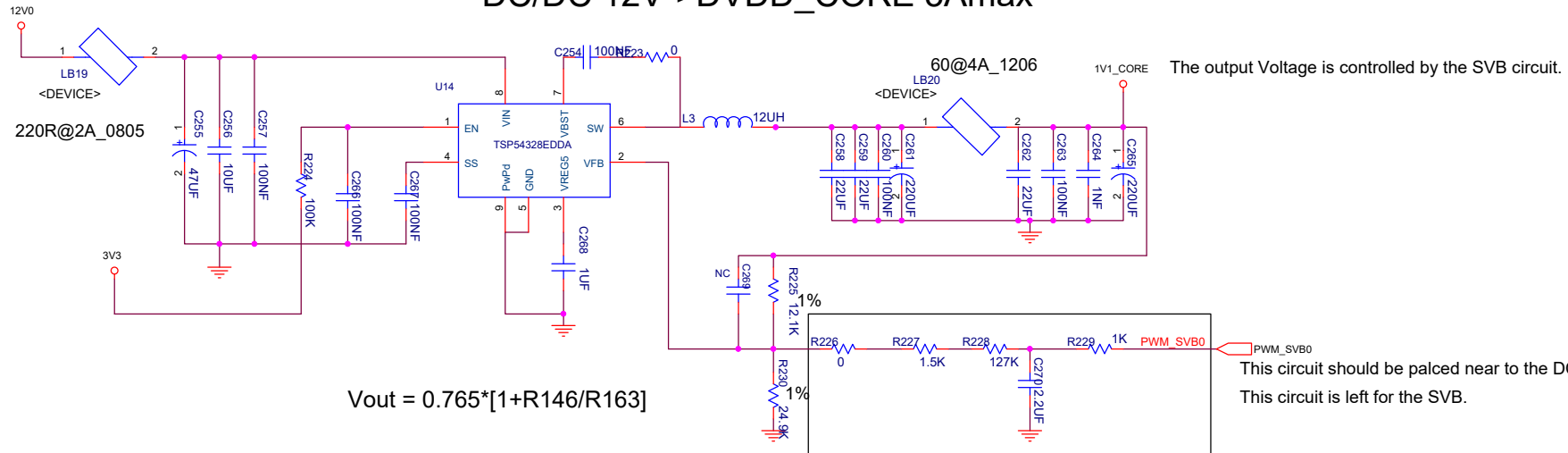


# ETH1

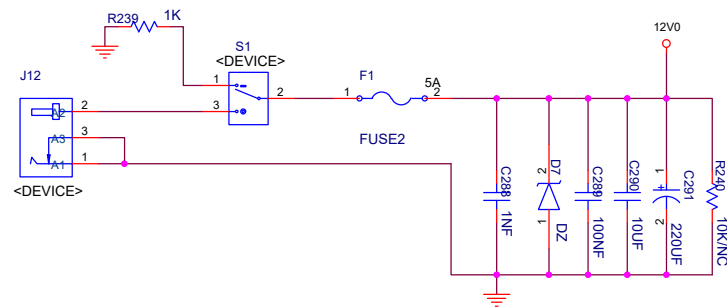
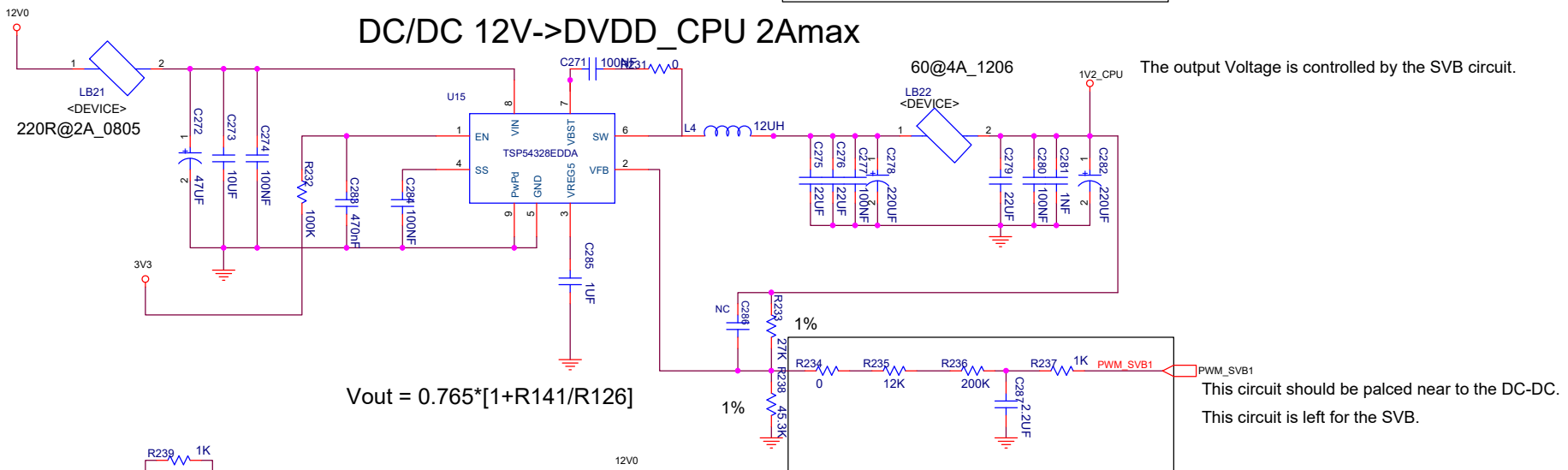


# Power Supply

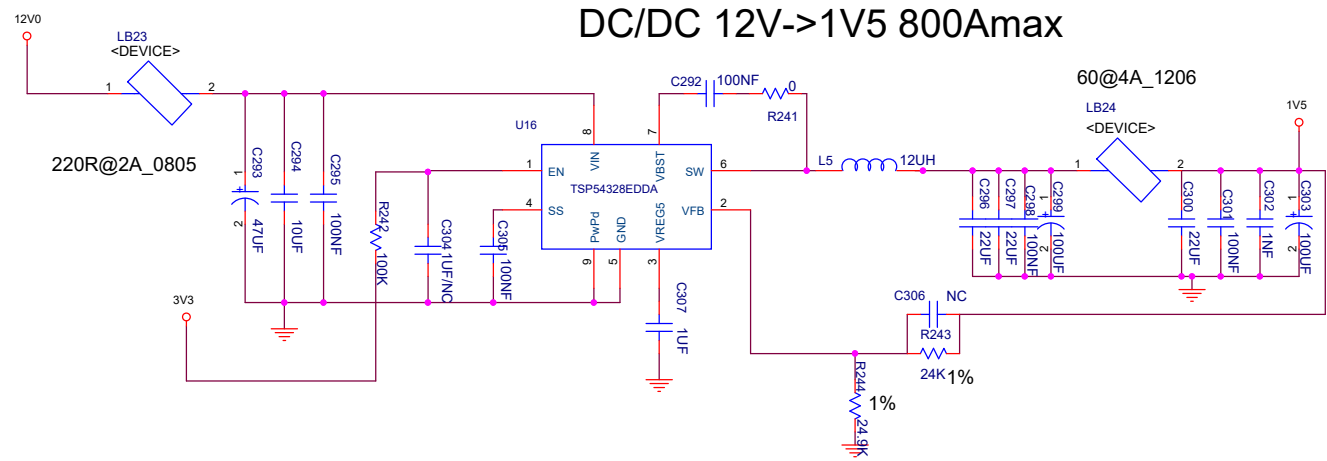
## DC/DC 12V->DVDD\_CORE 3Amax



## DC/DC 12V->DVDD\_CPU 2Amax

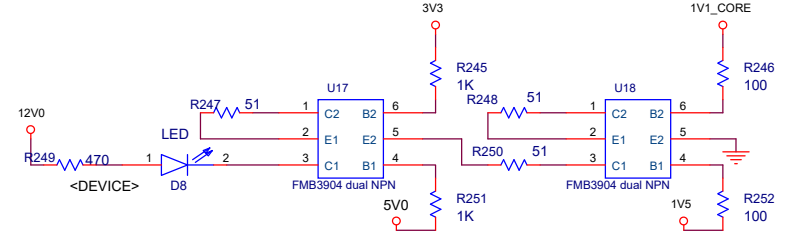


# Power Supply

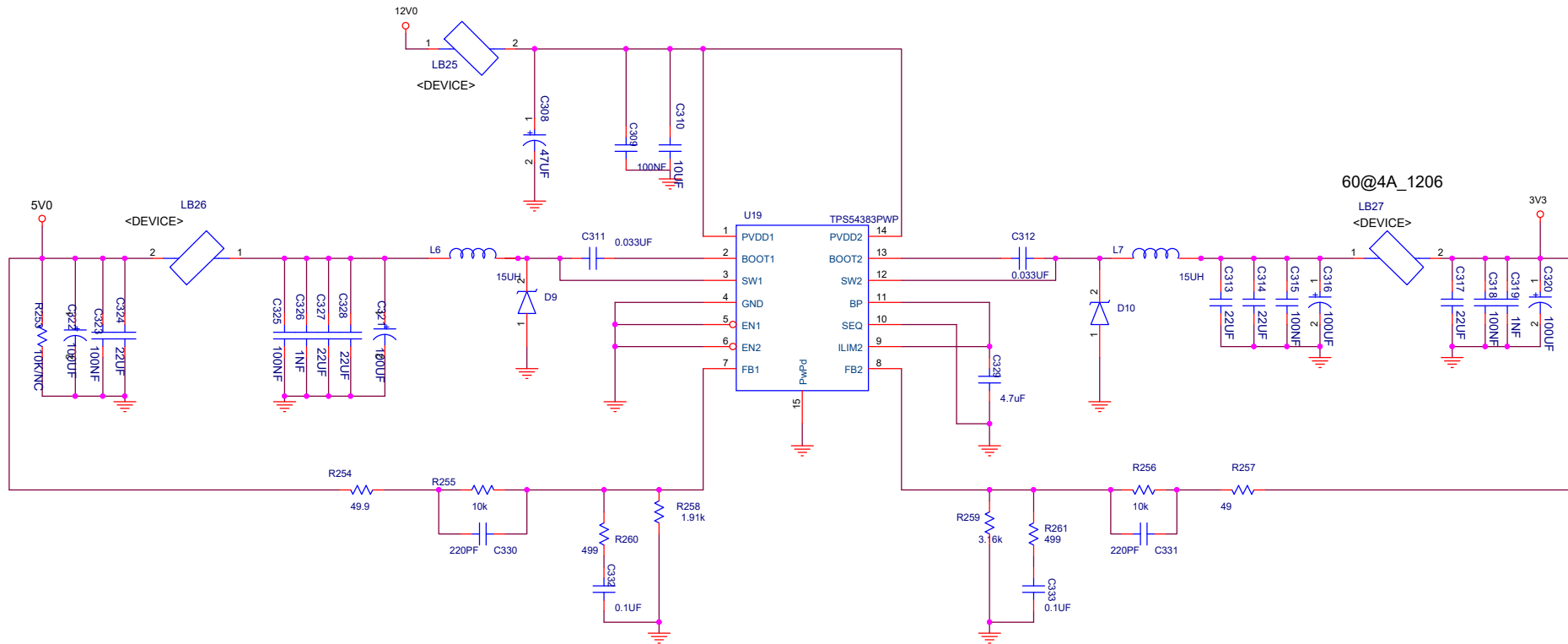


$$V_{out} = 0.765 * [1 + R240/R147]$$

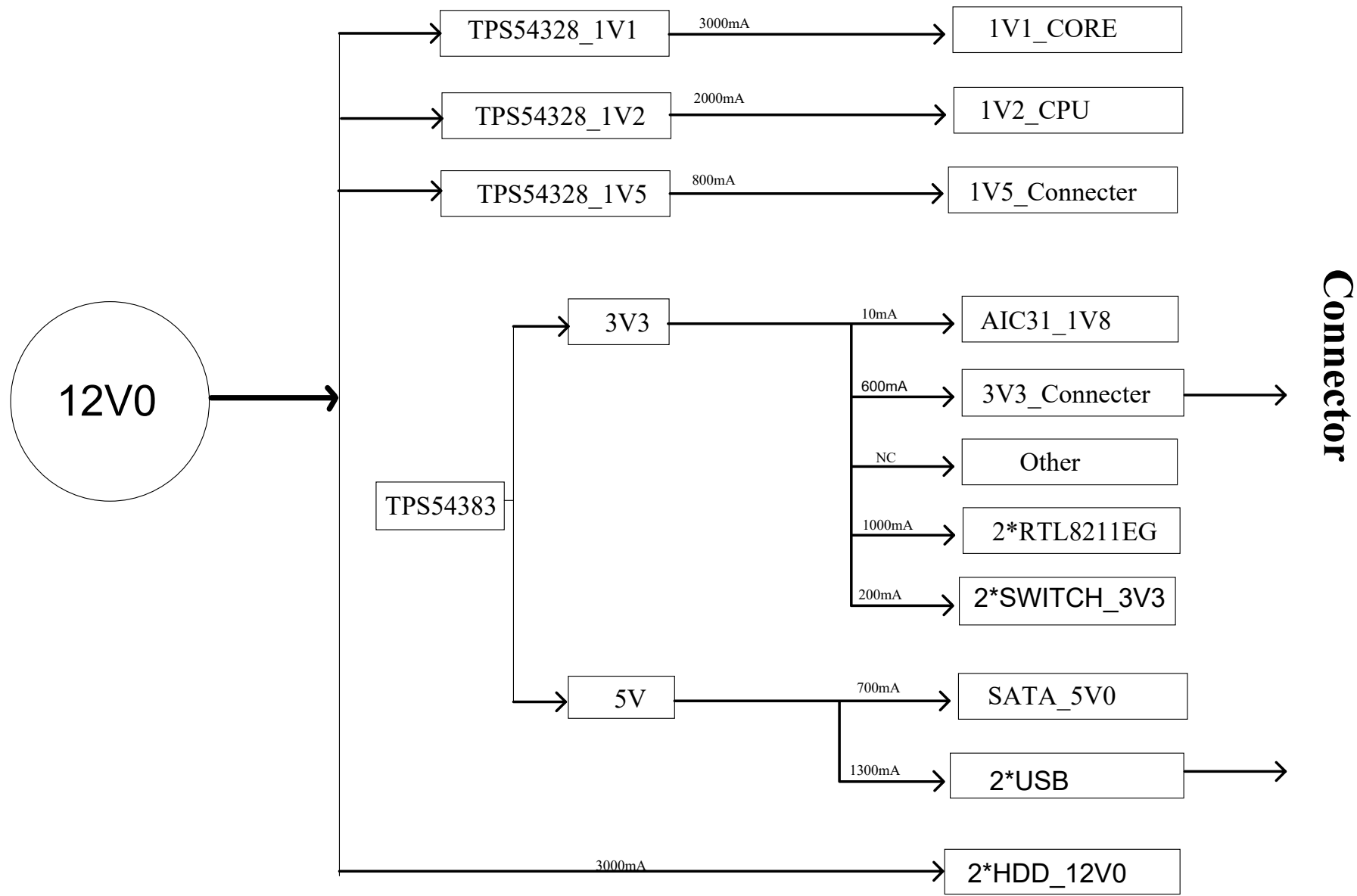
## Power Indicator LED



12V  $\rightarrow$  5V - 2A and 3.3V - 2A



# POWER TREE





# WWAN-3G

