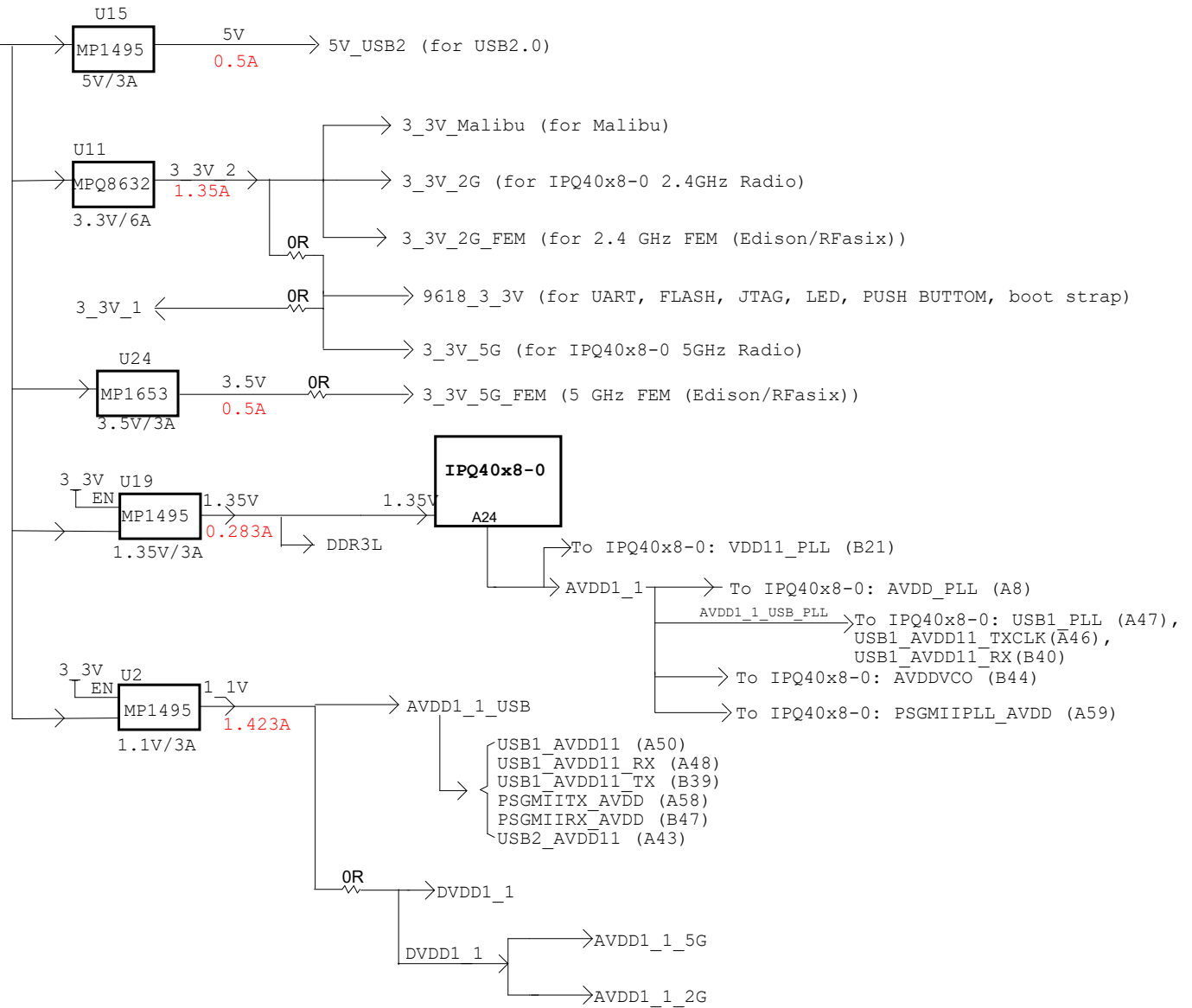
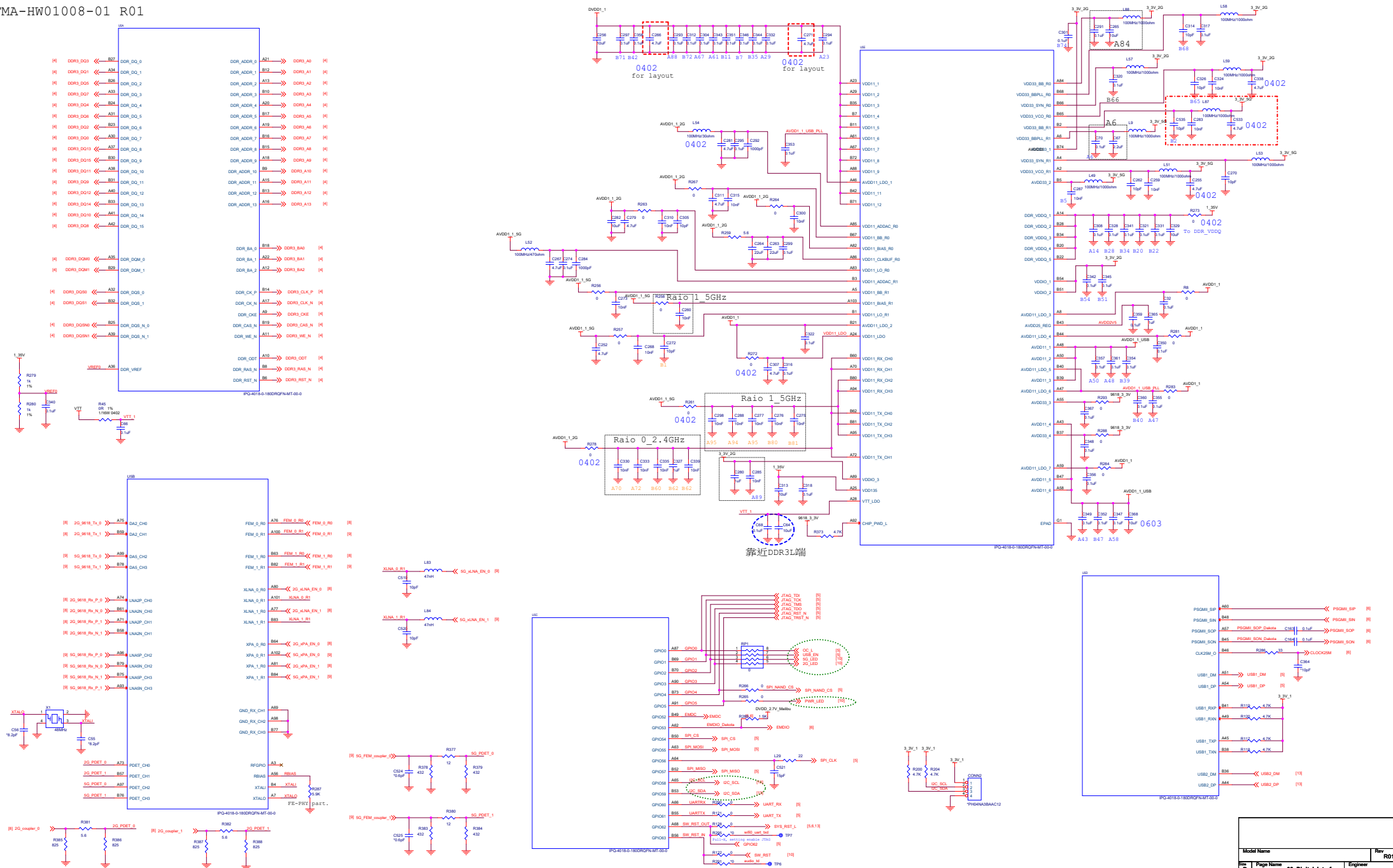
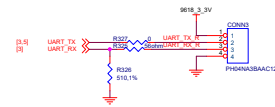
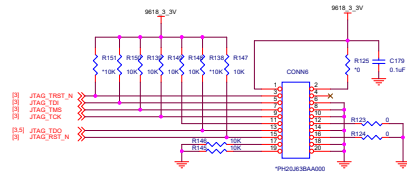


DC +12V
inputPOE
48V~56VTI
TPS23754

12V

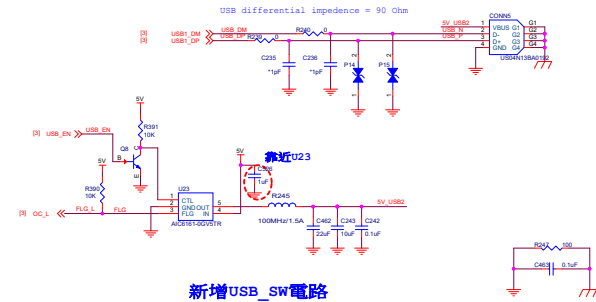




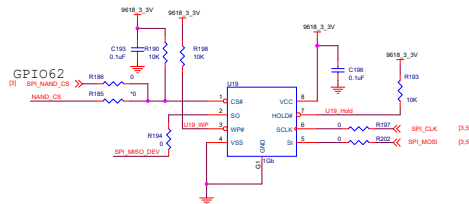
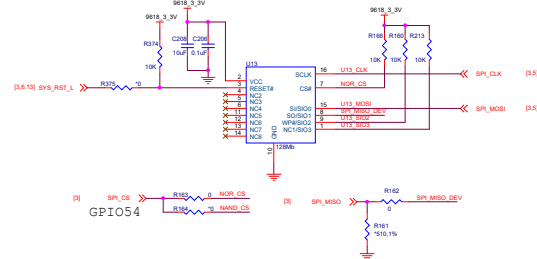


UART

20-PIN ARM JTAG Connector



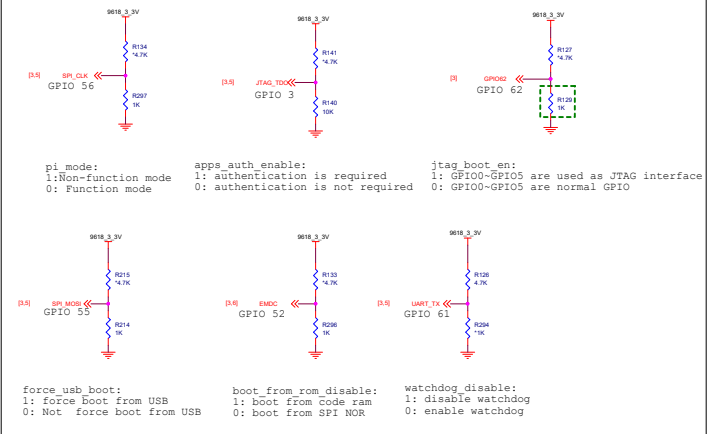
SPI NOR 16MB

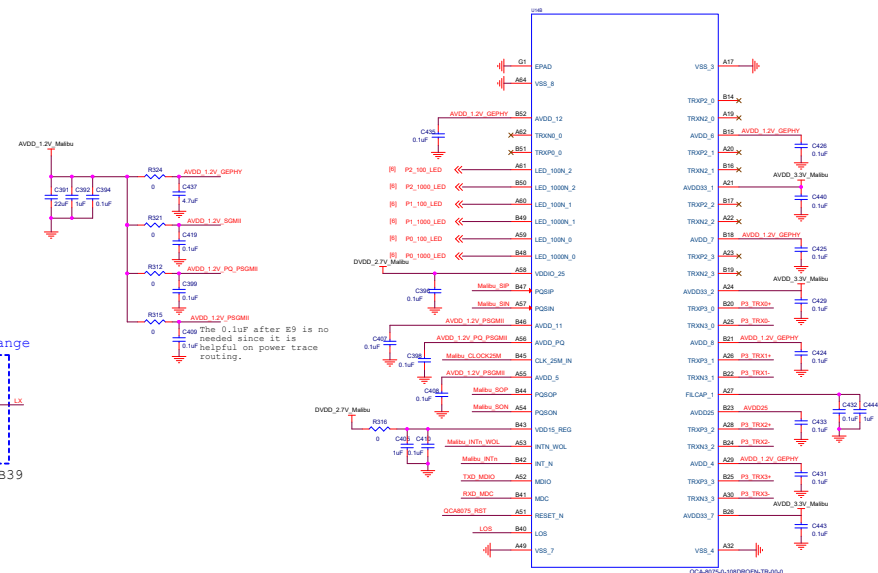
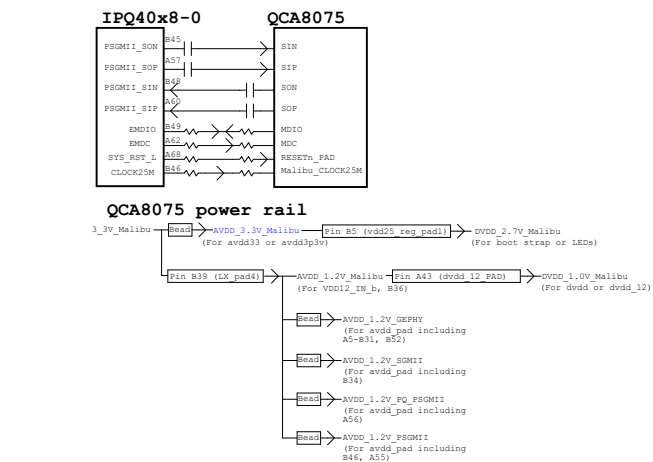
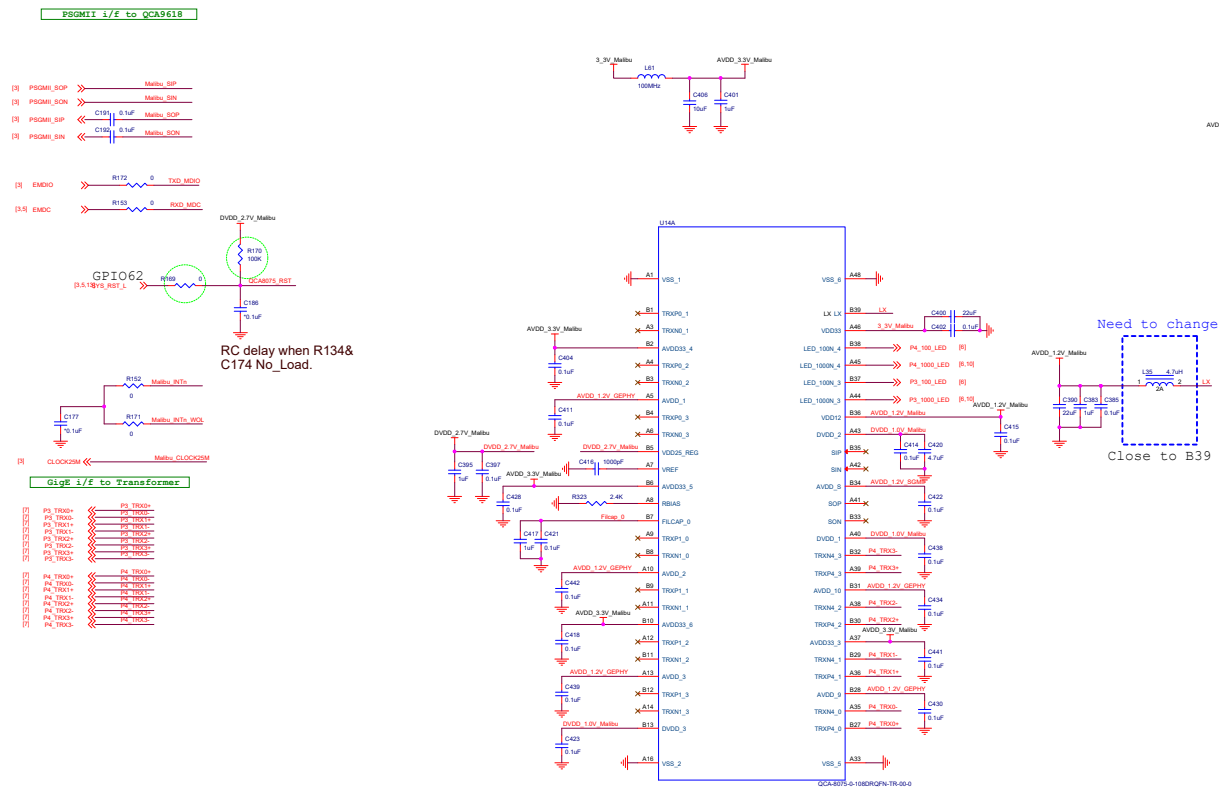


SPI NAND
Flash_1Gbits

	控制訊號	上件電阻
SPI NOR (16M or 32M)	GPIO54	R163
SPI NAND (1Gb)	GPIO4	R164
SPI NOR (16M) + SPI NAND (1Gb)	NOR: GPIO54 NAND: GPIO4	R163 and R186

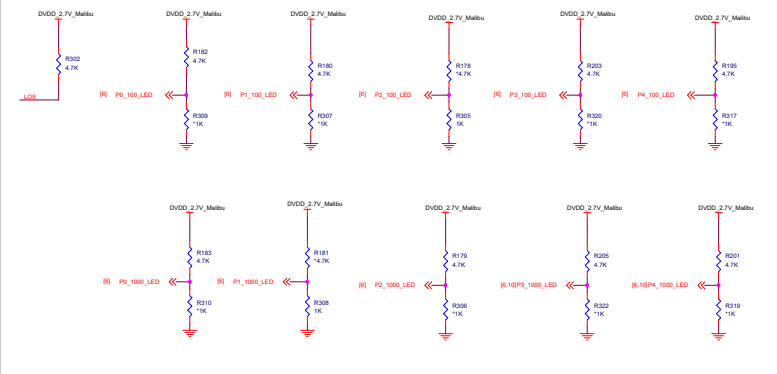
Boot Strap



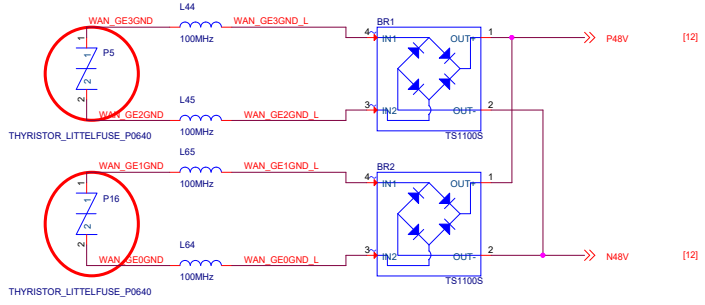
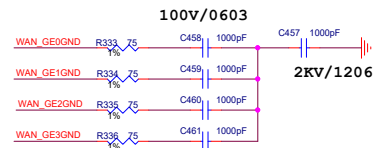
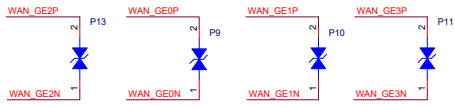
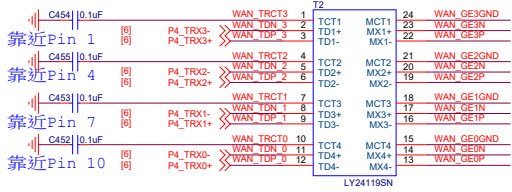


Power strapping			
PAD	Full UP/DOWN(default)	Internal signal	
DPAD_LED_LINK100n_0	UP	model_pos	
DPAD_LED_LINK100n_0	UP	model2_pos	
DPAD_LED_LINK100n_1	UP	model3_pos	
DPAD_LED_LINK100n_1	down	phyaddress_req[3]	
DPAD_LED_LINK100n_2	down	phyaddress_req[4]	
DPAD_LED_LINK100n_2	UP	control_dac_pos[0]	
DPAD_LED_LINK100n_3	UP	control_dac_pos[1]	
DPAD_LED_LINK100n_3	UP	control_dac_pos[2]	
DPAD_LED_LINK100n_4	UP	az_sel_pos	
DPAD_LED_LINK100n_4	UP	idac_adj[2]	

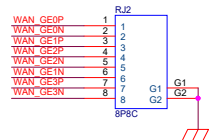
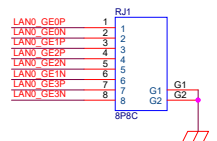
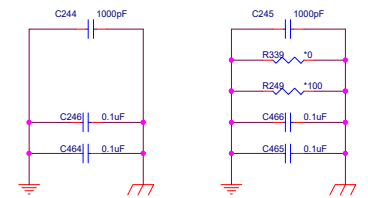
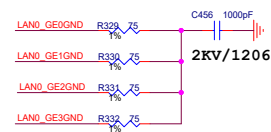
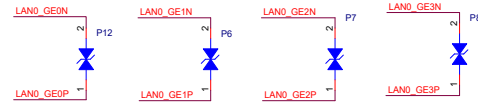
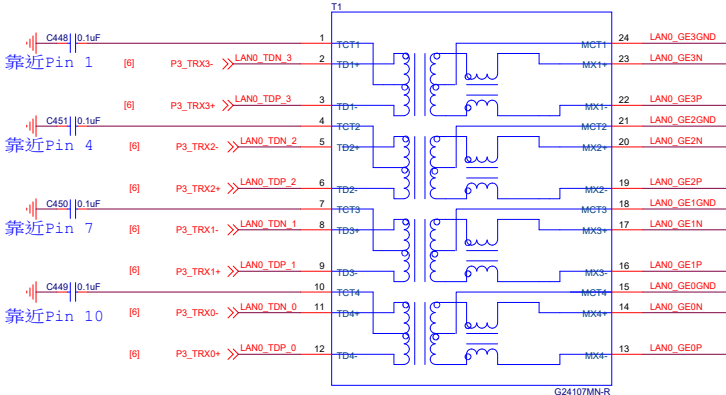
Boot Strap

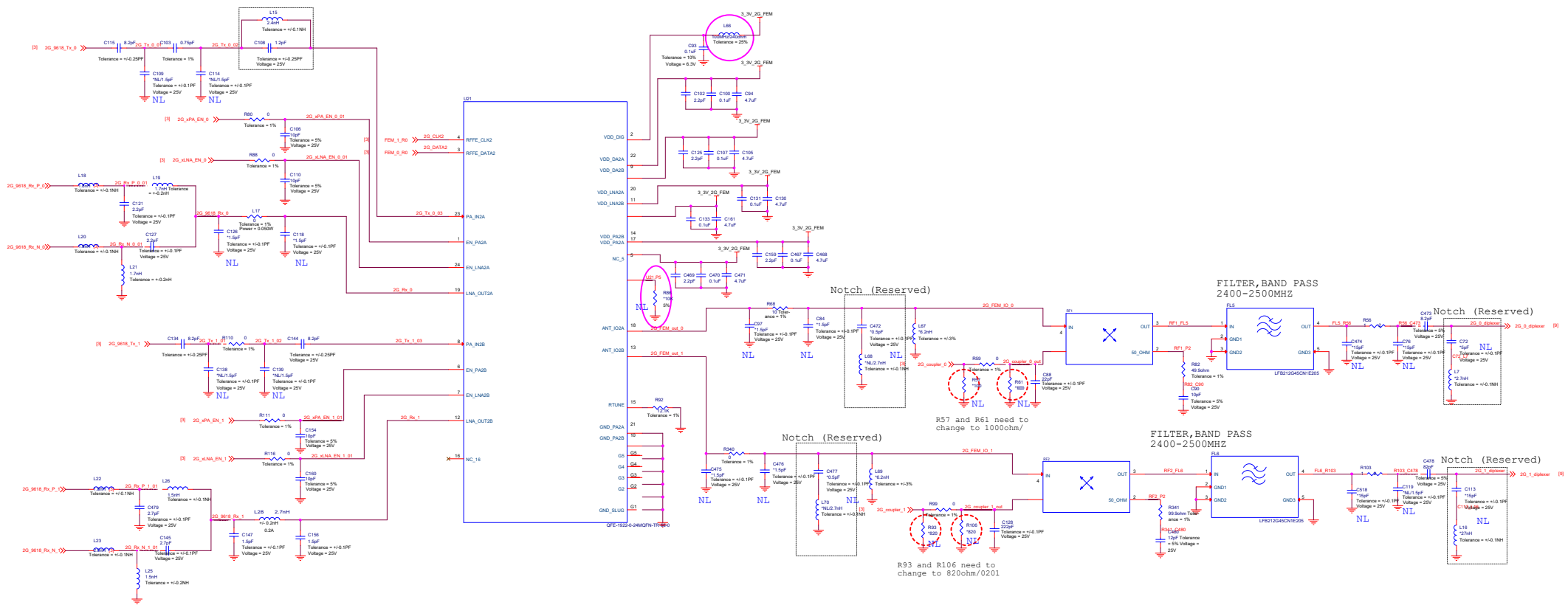


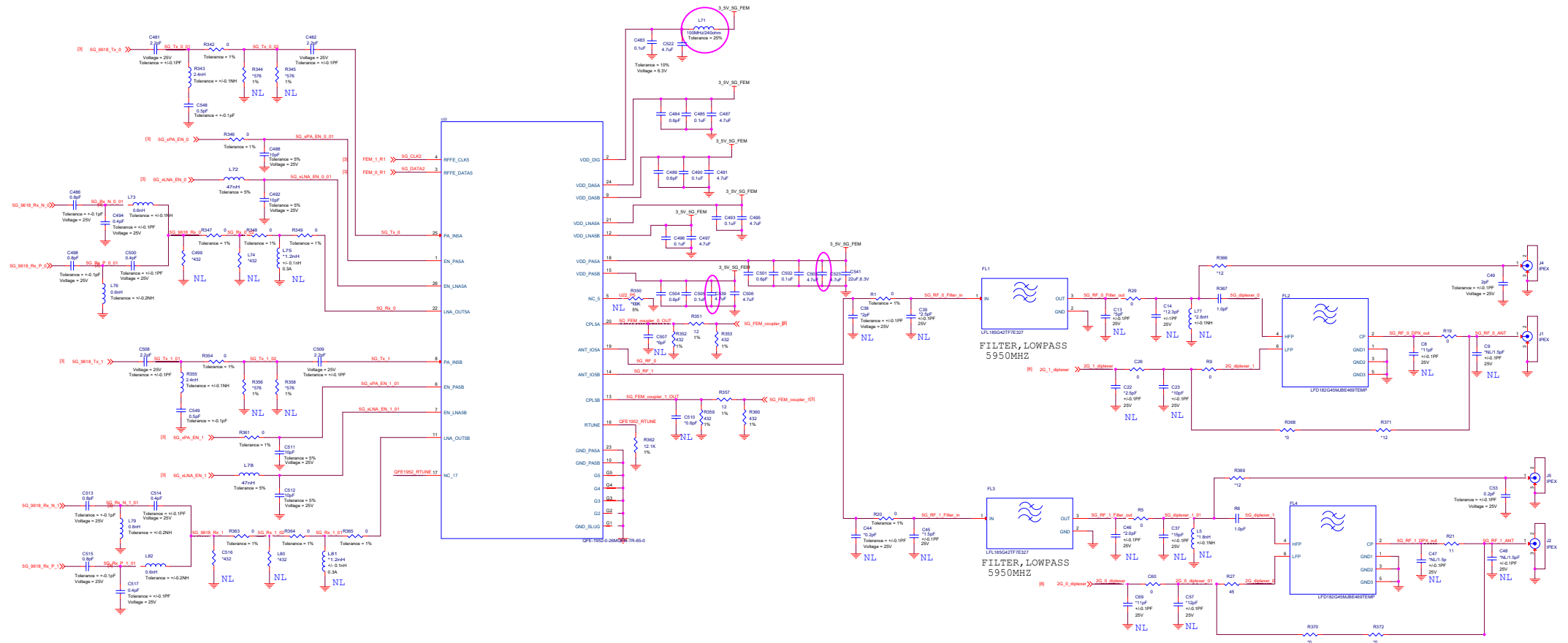
Differential Pair Trace
Impedance = 100 Ohm

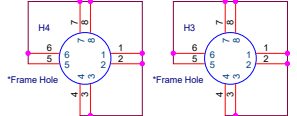
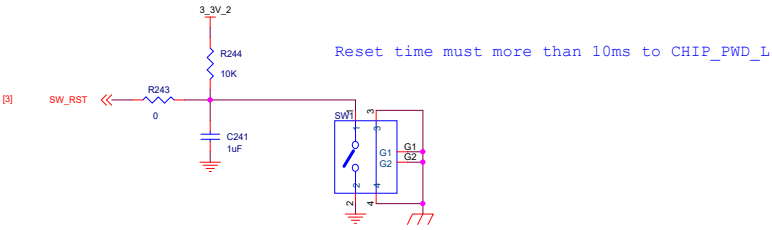
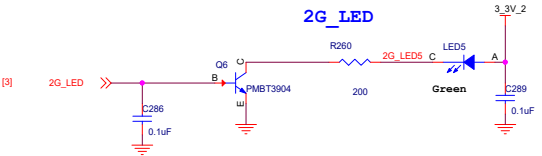
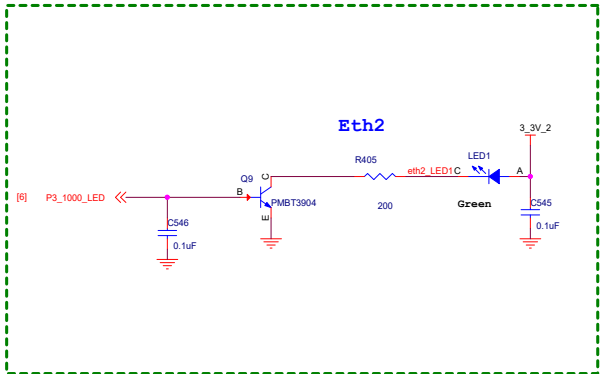
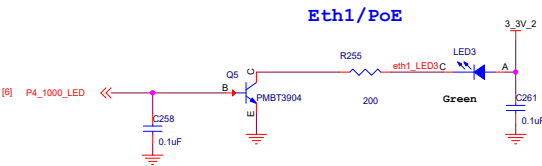
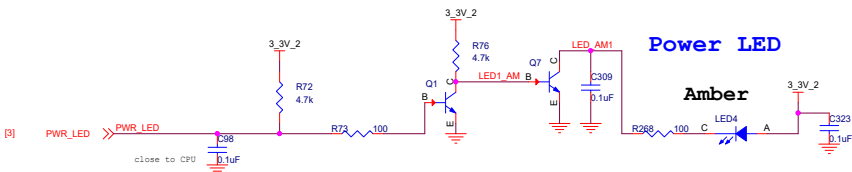
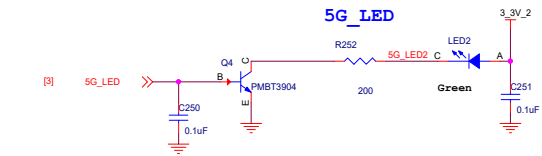


Differential Pair Trace
Impedance = 100 Ohm

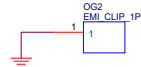








MTH_197C106D_8DP

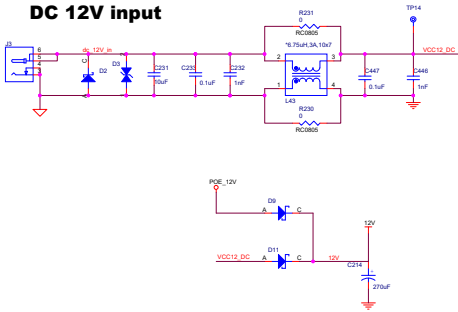


S/W RESET

Manufactory default reset

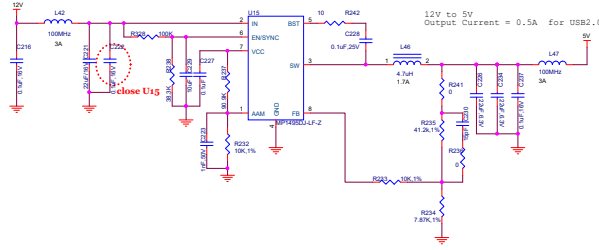
Model Name		Rev
		R01
Size	Page Name	Engineer
C	10_MISC_I2S_LED	
Date:	Monday, January 16, 2017	Sheet 10 of 17

DC 12V input



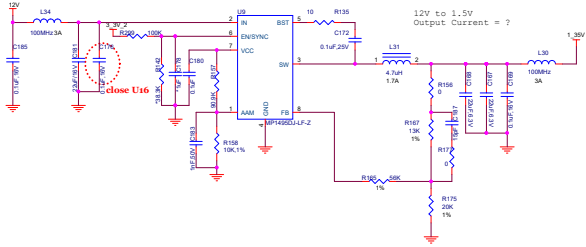
12V to 5V for USB3.0 & 2.0

$VCC5.0 = 0.807 * (1 + 41.2k / 7.86k) = 5.037V$



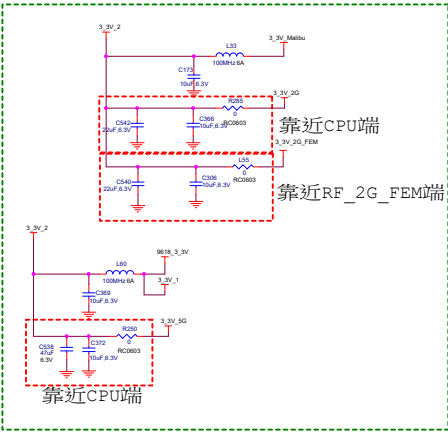
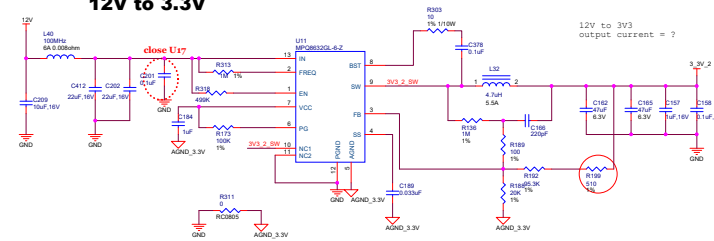
12V to 1.35V for DDRIII

$VCC 1.35V = 0.807 * [1 + (13K + 0.51K) / 20k] = 1.3517V$



12V to 3.3V

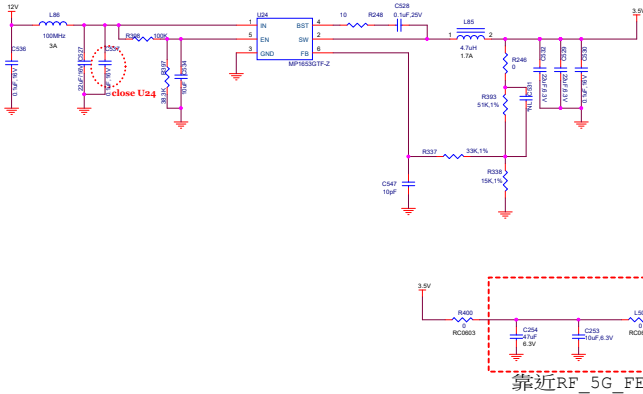
12V to 3V3
output current = ?



12V to 3.5V for 5G FEM

$VCC5.0 = 0.8 * (1 + 51k / 15k) = 3.52V$

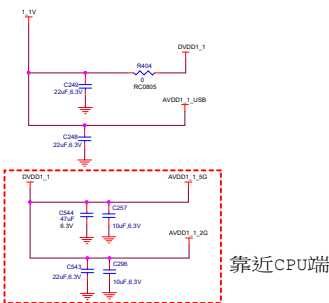
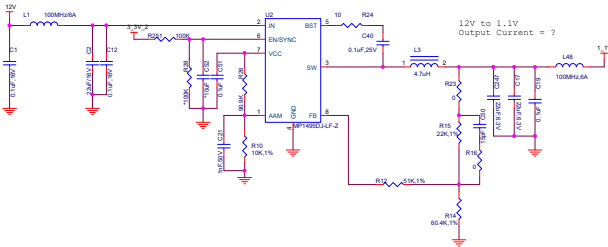
12V to 3.5V
Output Current = 0.45A for 5G FEM

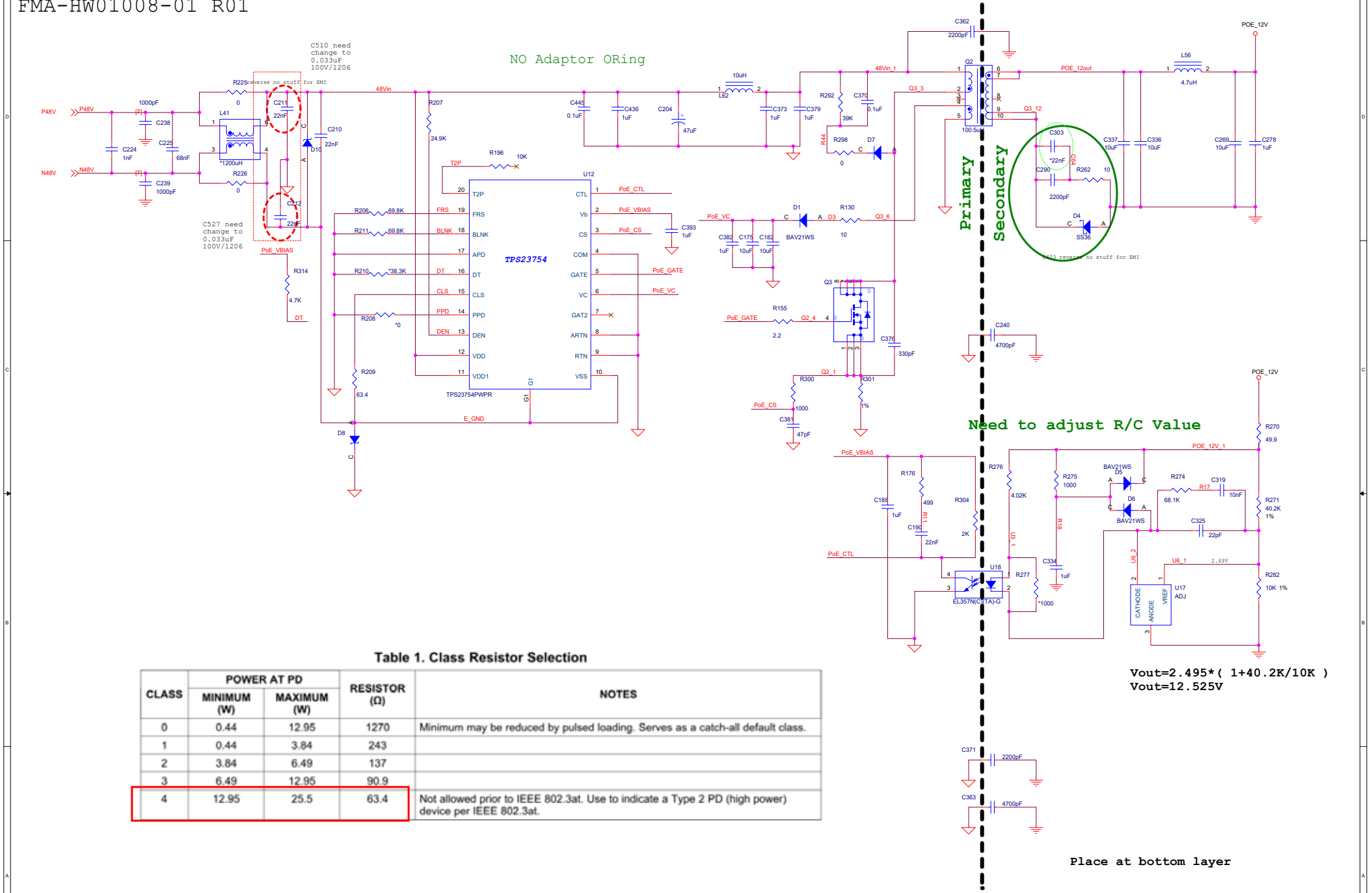


12V to 1.1V

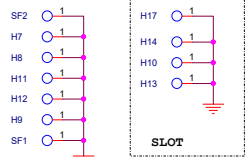
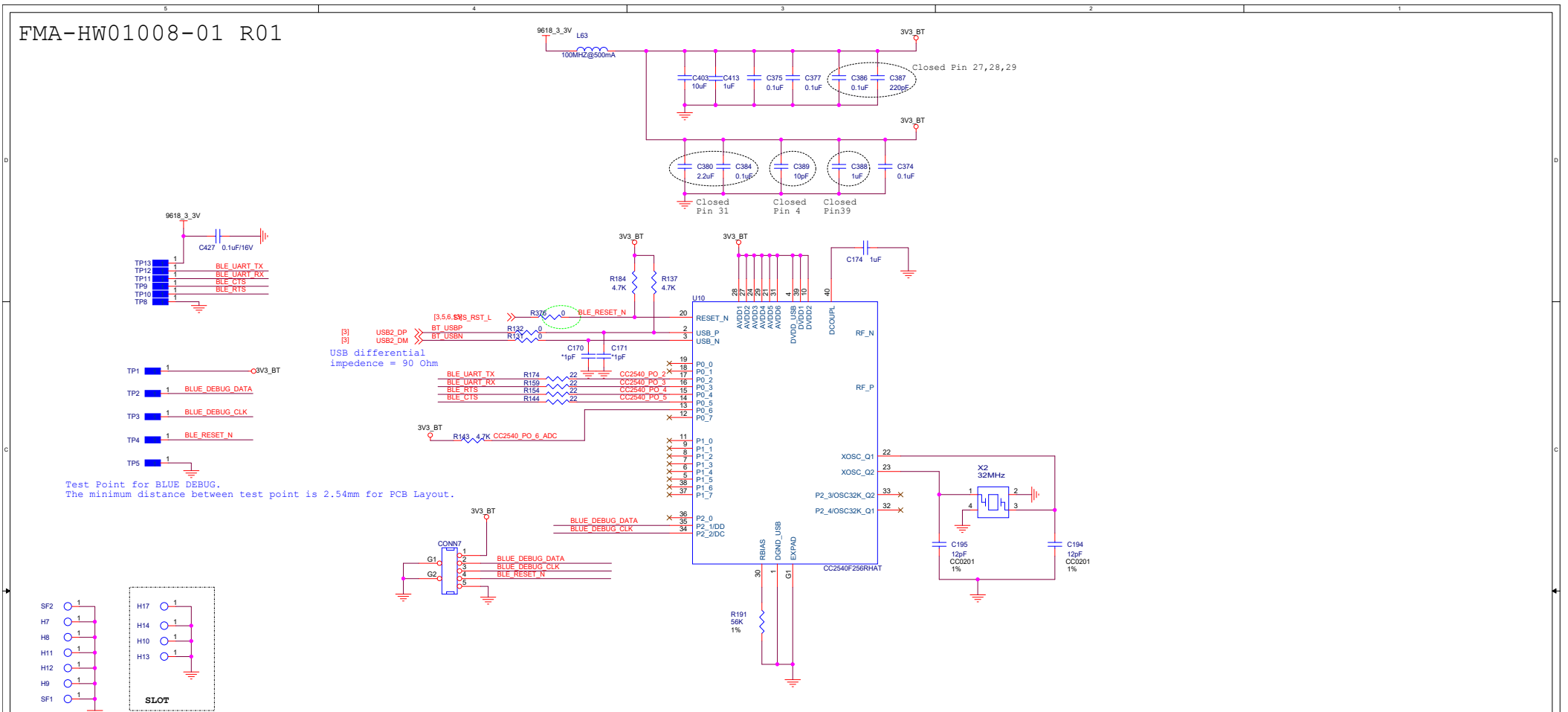
$VCC1.1 = 0.807 * [1 + 22k / 60.4k] = 1.1V$

12V to 1.1V
Output Current = ?





$$V_{out} = 2.495 \times (1 + 40.2K/10K)$$
$$V_{out} = 12.525V$$



Shielding Slot

