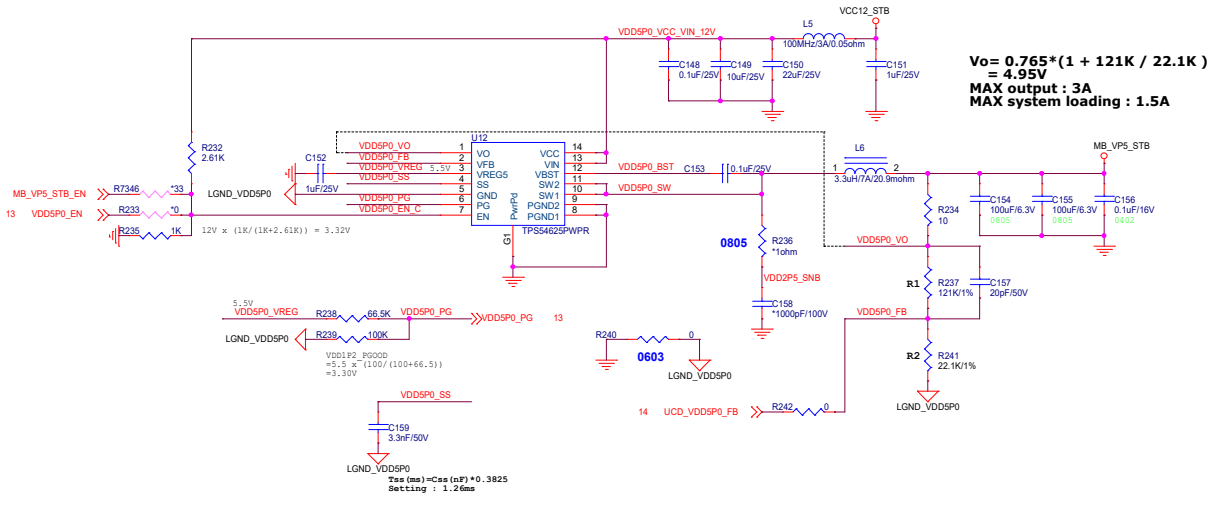
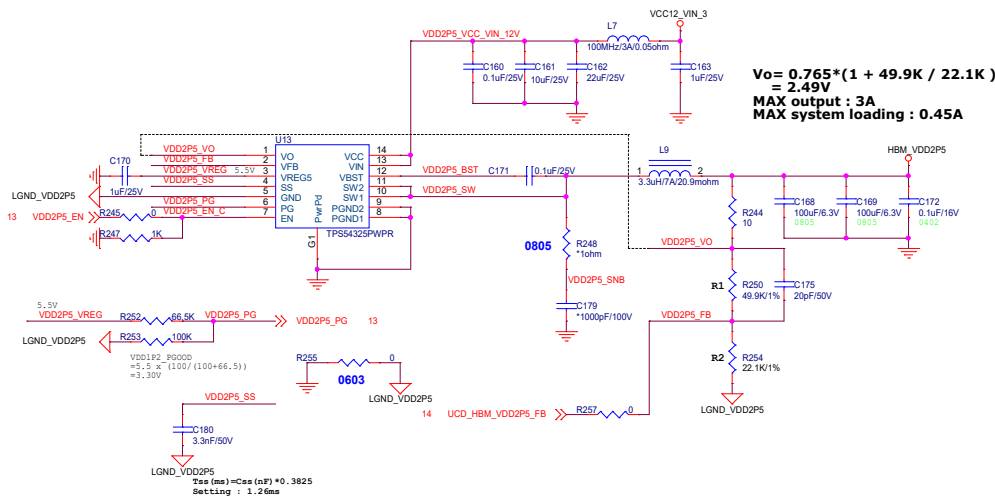




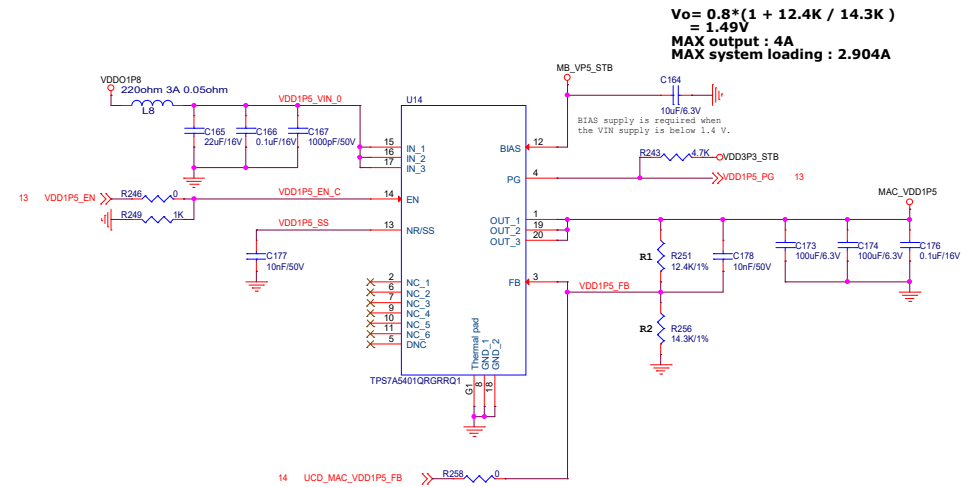
### MB\_VP5\_STB



### HBM\_VDD2P5

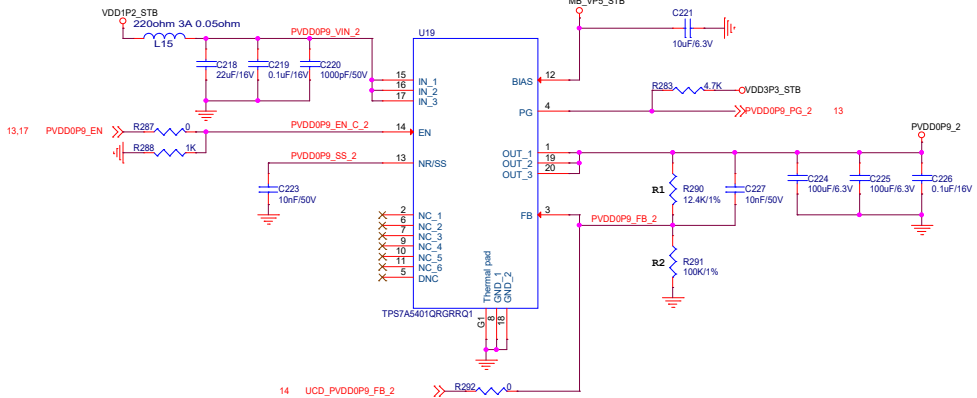
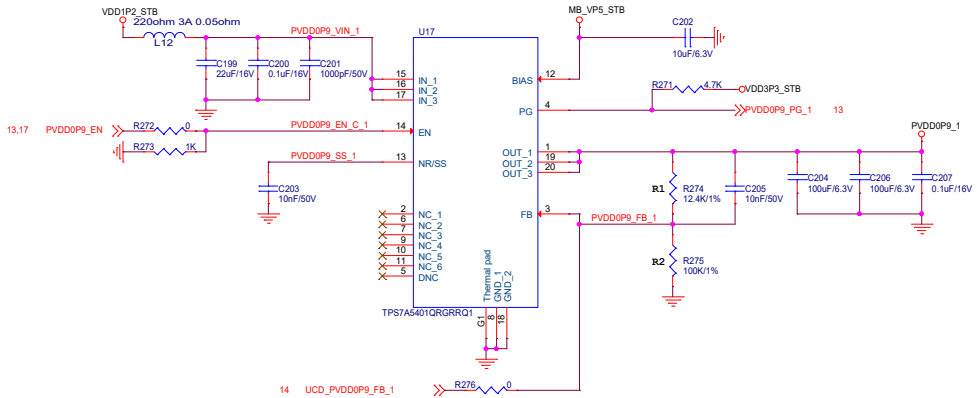
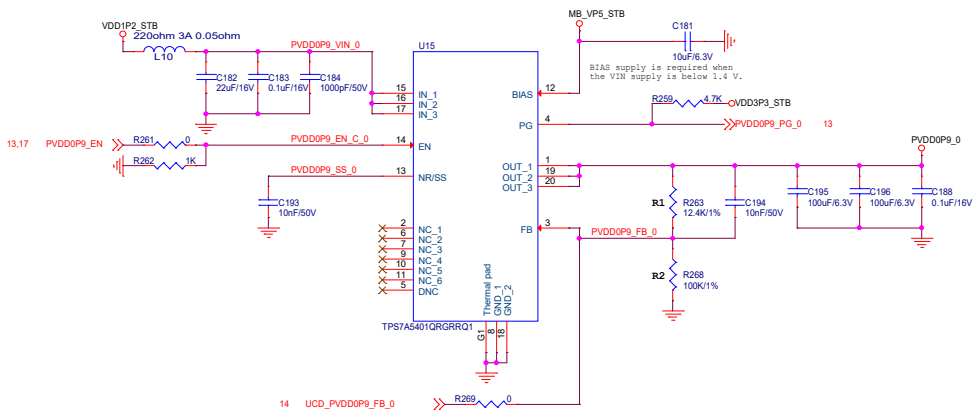


### MAC\_VDD1P5



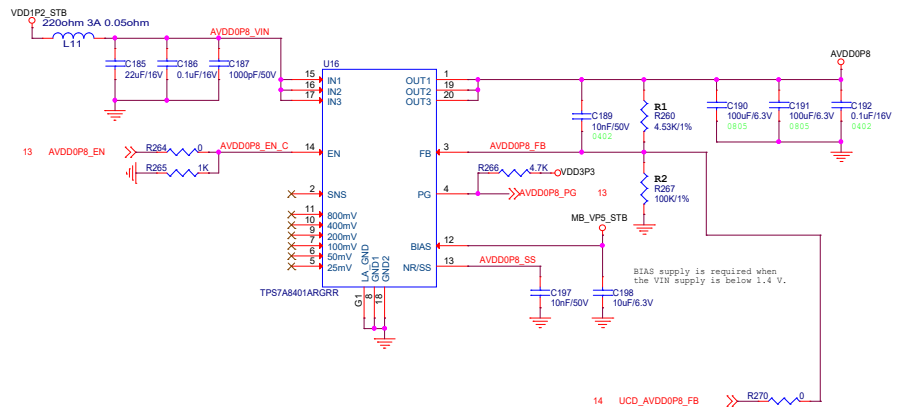
### PVDD0P9

$V_o = 0.8 * (1 + 12.4K / 100K)$   
 = 0.90V  
 MAX output : 4A x 3pcs = 12A  
 MAX system loading : 6.5A



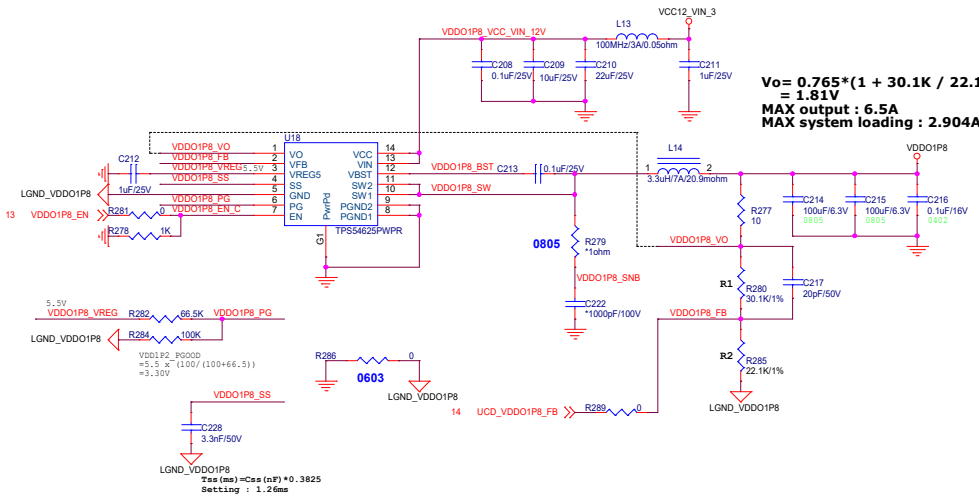
### AVDD0P8

$V_o = 0.765 * (1 + 4.53K / 100K)$   
 = 0.799V  
 MAX output : 3A  
 MAX system loading : 1A



### VDDO1P8

$V_o = 0.765 * (1 + 30.1K / 22.1K)$   
 = 1.81V  
 MAX output : 6.5A  
 MAX system loading : 2.904A



FPGA\_1P0/1.0A

Loop1 :  
 $V_{out} = 0.6 * (1 + R1/R2)$   
 $1.0V = 0.6 * (1 + 10K/15K)$

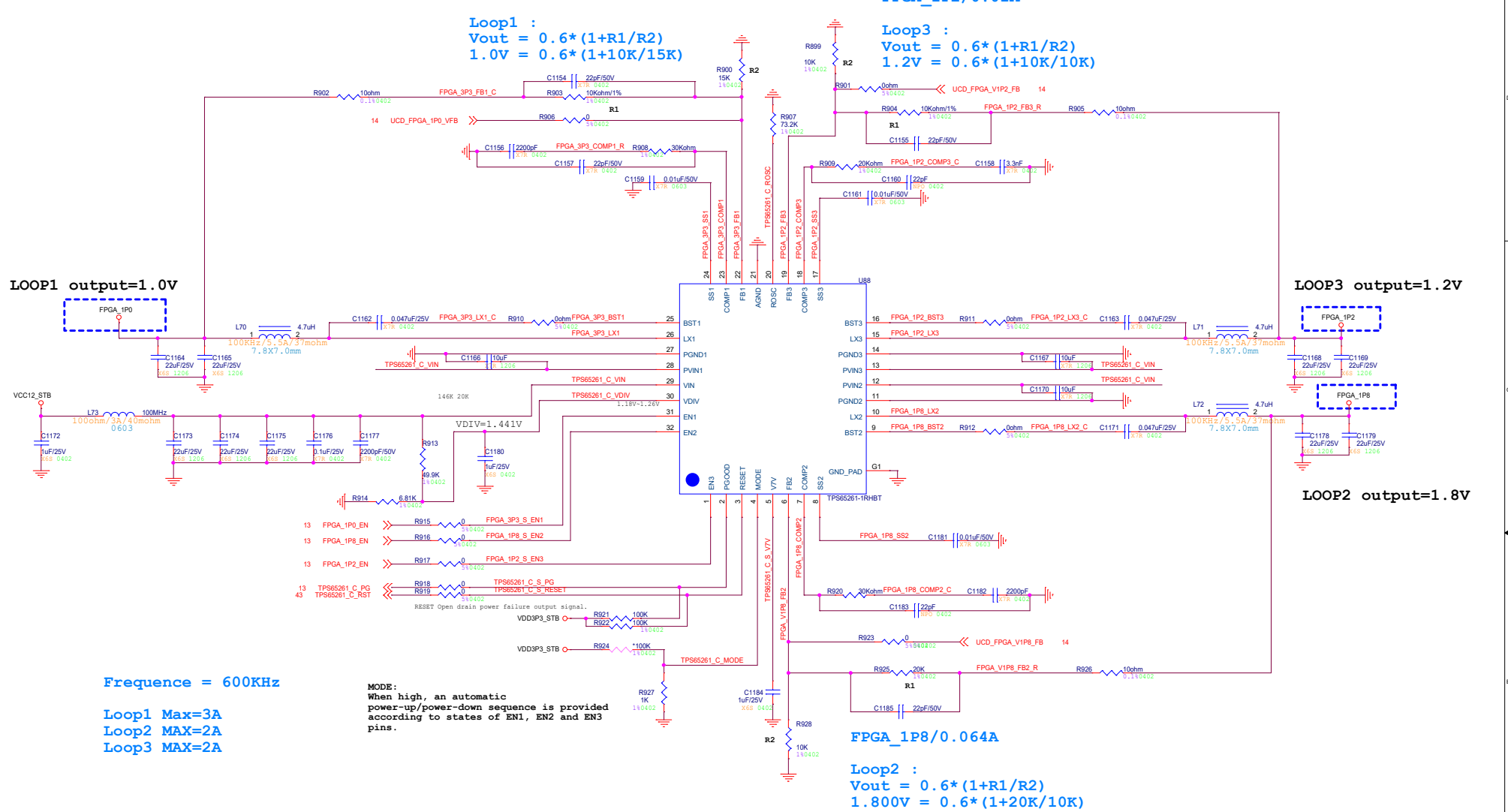
FPGA\_1P2/0.01A

Loop3 :  
 $V_{out} = 0.6 * (1 + R1/R2)$   
 $1.2V = 0.6 * (1 + 10K/10K)$

LOOP1 output=1.0V

LOOP3 output=1.2V

LOOP2 output=1.8V



Frequency = 600KHz

Loop1 Max=3A  
 Loop2 MAX=2A  
 Loop3 MAX=2A

MODE:  
 When high, an automatic power-up/power-down sequence is provided according to states of EN1, EN2 and EN3 pins.

FPGA\_1P8/0.064A

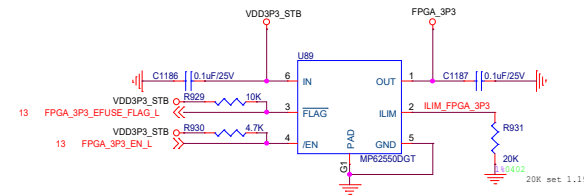
Loop2 :  
 $V_{out} = 0.6 * (1 + R1/R2)$   
 $1.800V = 0.6 * (1 + 20K/10K)$

9.2.2.1 Output Inductor Selection

To calculate the value of the output inductor, use Equation 12. LIR is a coefficient that represents the amount of inductor ripple current relative to the maximum output current. The inductor ripple current is filtered by the output capacitor. Therefore, choosing high inductor ripple currents impact the selection of the output capacitor since the output capacitor must have a ripple current rating equal to or greater than the inductor ripple current. In general, the inductor ripple value is at the discretion of the designer; however, LIR is normally from 0.1 to 0.3 for the majority of applications.

$$L = \frac{V_{INMAX} - V_{OUT}}{I_o \times LIR} \times \frac{V_{OUT}}{V_{INMAX} \times f_{SW}}$$

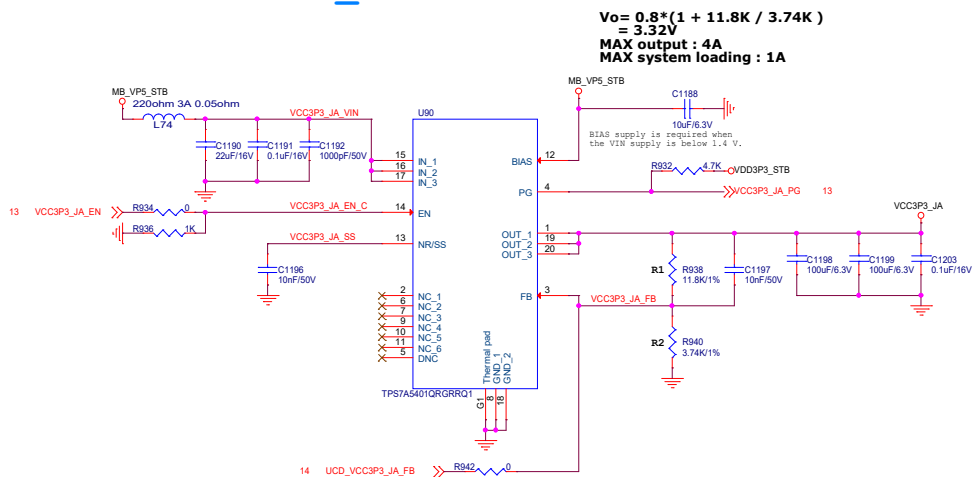
(12)



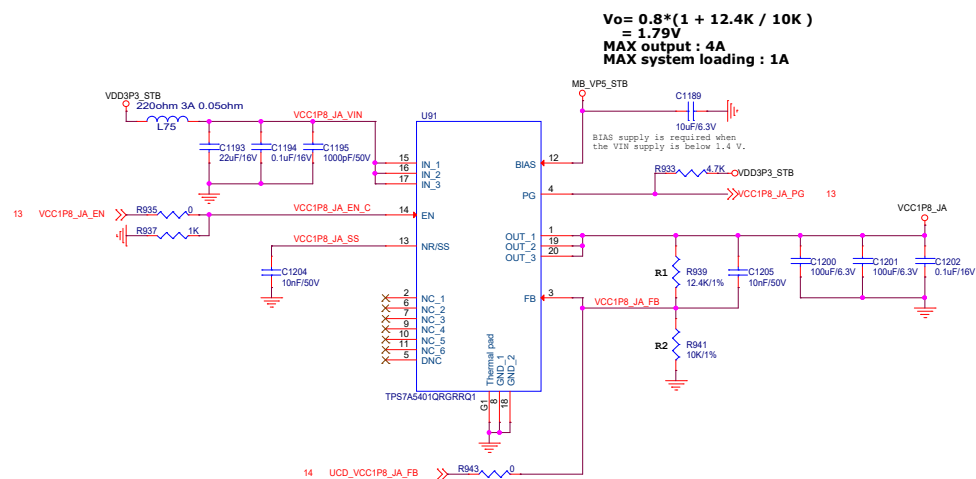
**Accton Inc.**  
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Model Name ES8632BT4-0220-EC	Rev R0A
Size C	Page Name FPGA_V1P8V1P2V1P0
Date Thursday, March 06, 2023	Engineer Chaochua Chung
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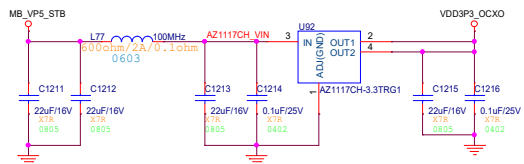
### VCC3P3\_JA



### VCC1P8\_JA



### 5V convert to 3.3V/1A For OCXO



### RAKON\_U8551F Max power:2W

