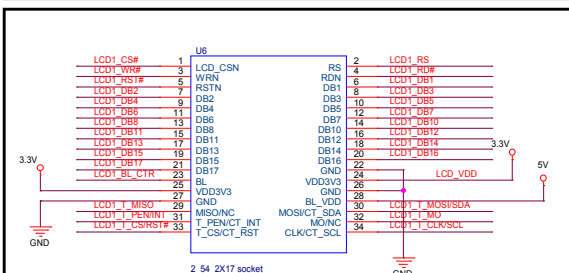
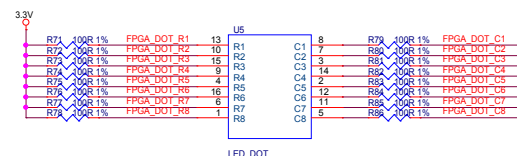
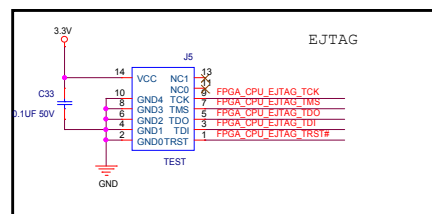
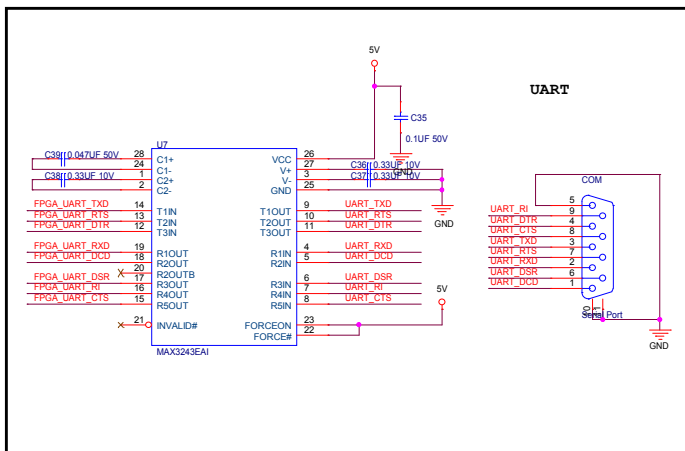
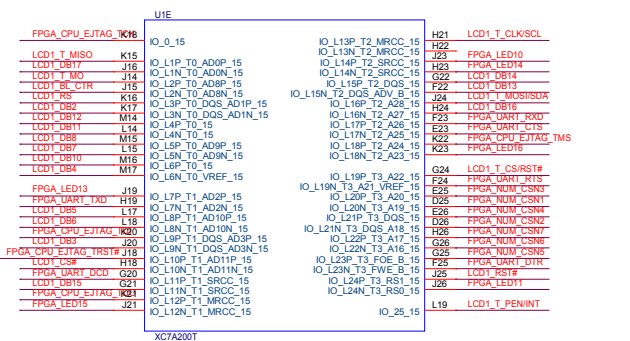
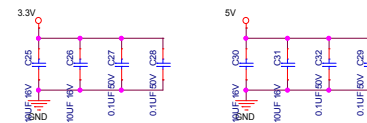


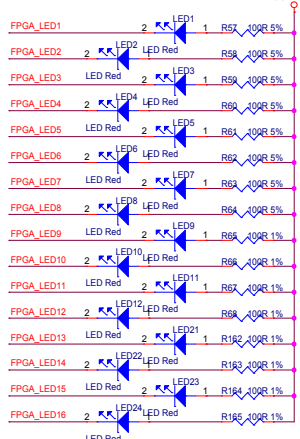
龙芯中科 LOONGSON TECHNOLOGY		龙芯中科技术有限公司 北京市海淀区稻香湖路中关村环保科技示范园龙芯产业园	
板卡名称 FPGA-A7-PRJ-UDB			
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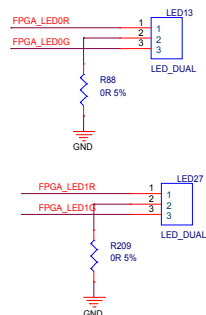
液晶屏接口
支持2.8寸和4.3寸两种液晶屏
耗电电流小于180mA (3.3V+5V合计)



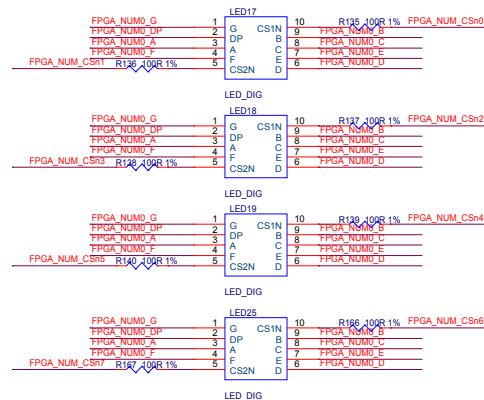
LED灯

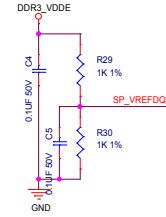
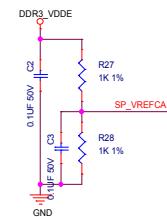
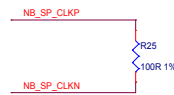
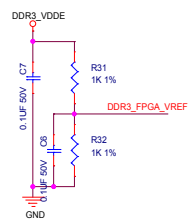
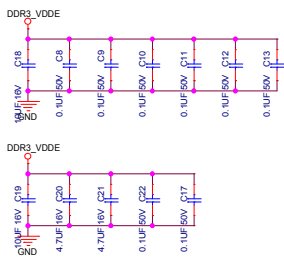


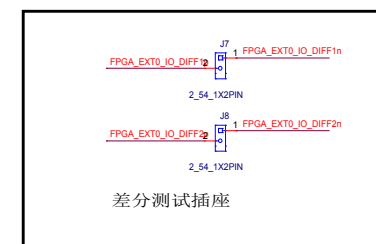
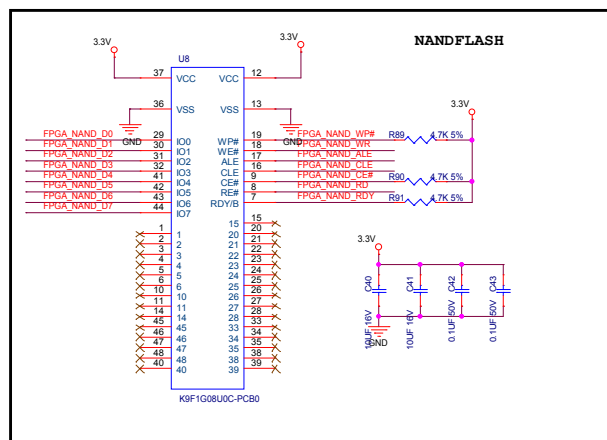
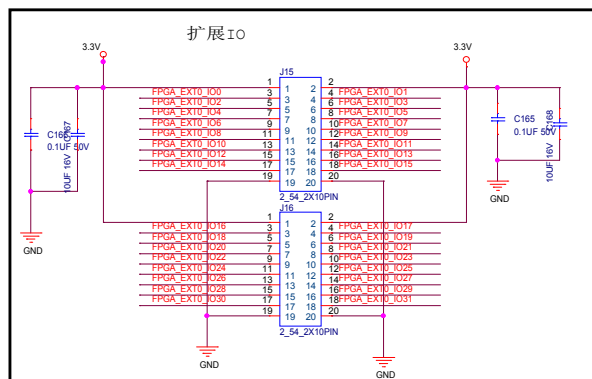
双色-LED灯

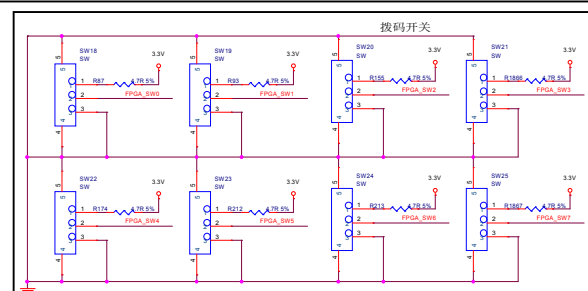
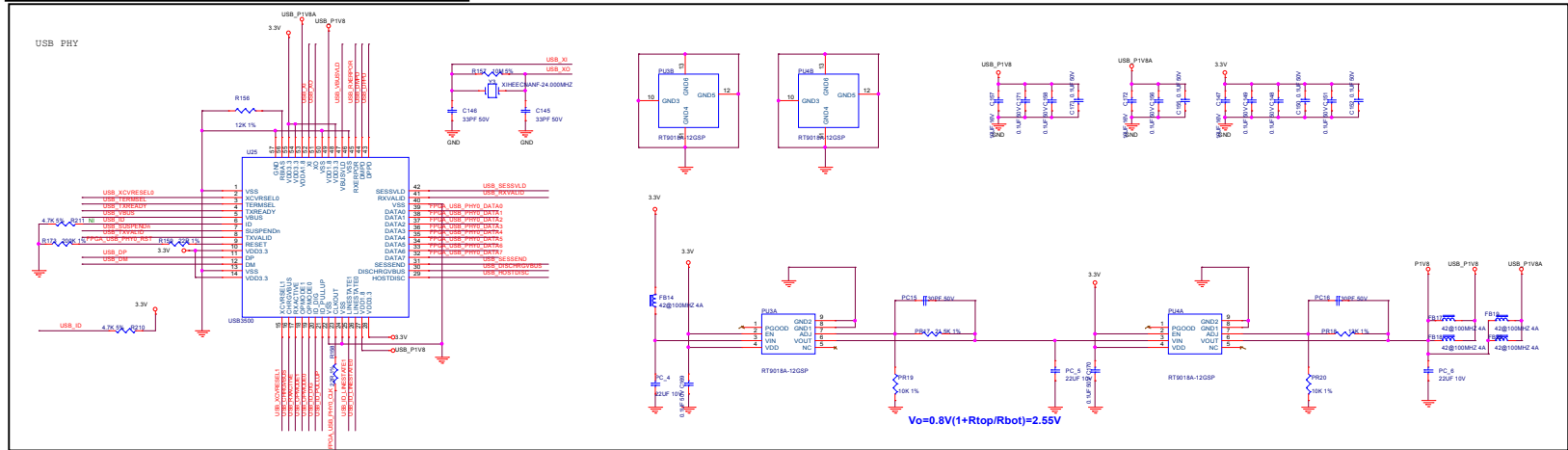
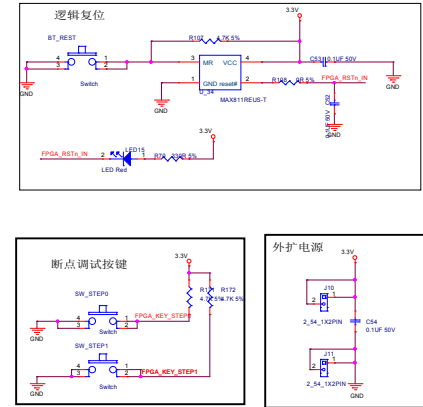


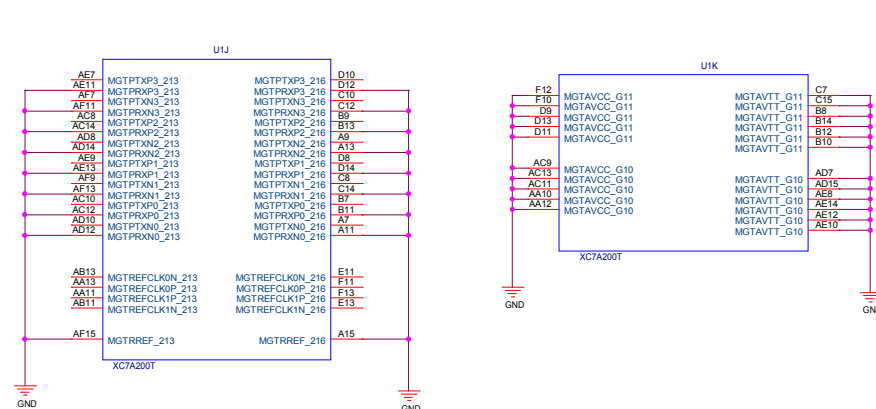
共阴极八段数码管



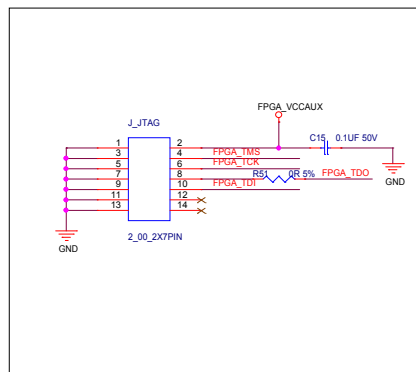








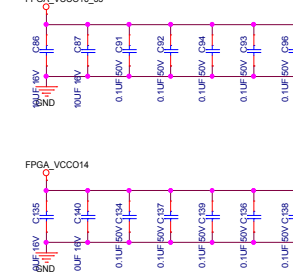
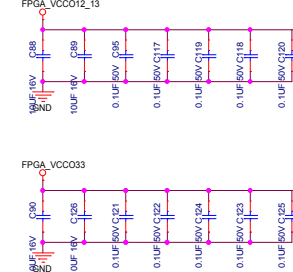
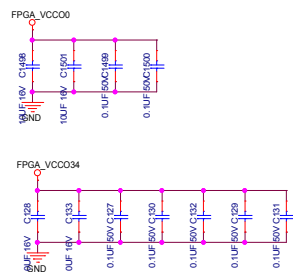
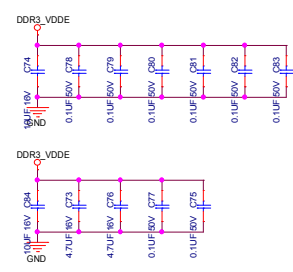
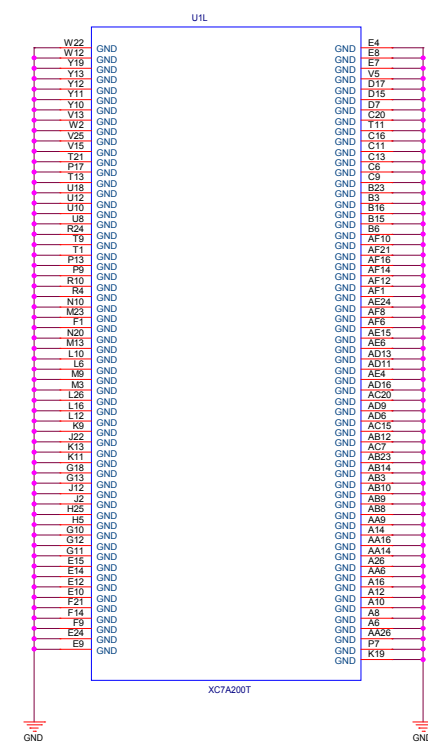
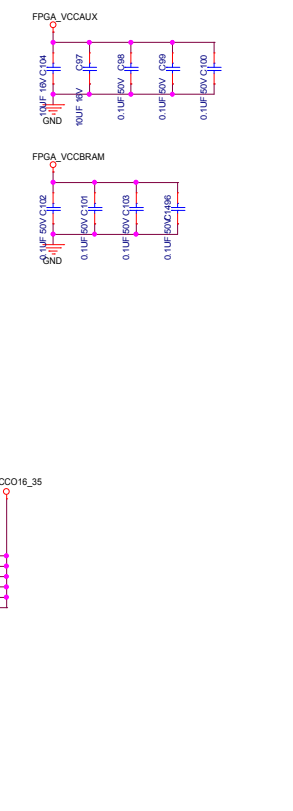
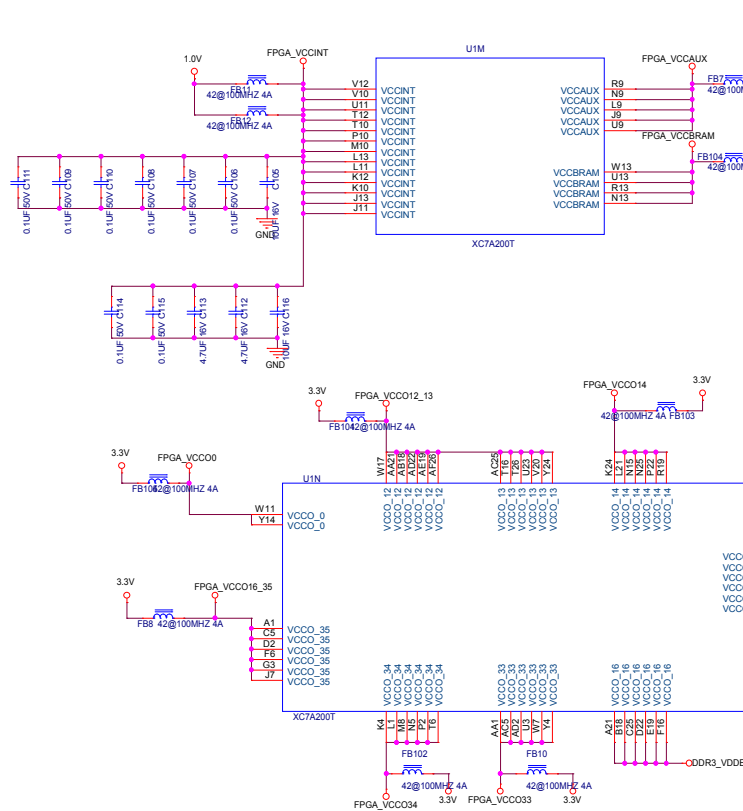
FPGA_MOSI	>>> FPGA_MOSI
FPGA_D0_MISO	>>> FPGA_D0_MISO
FLASH_WP#	>>> FLASH_WP#
FLASH_HOLD#	>>> FLASH_HOLD#
FPGA_CSO_B#	>>> FPGA_CSO_B#

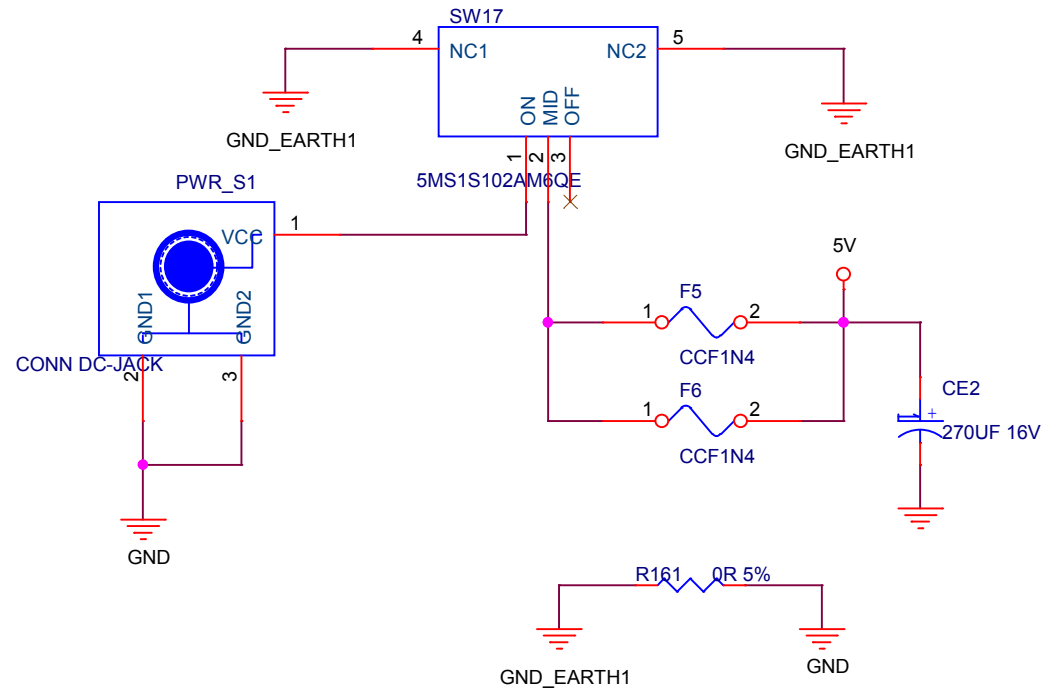
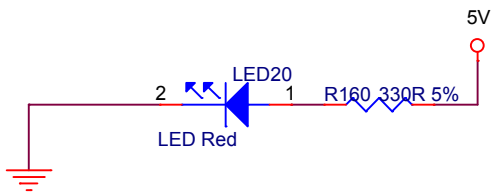
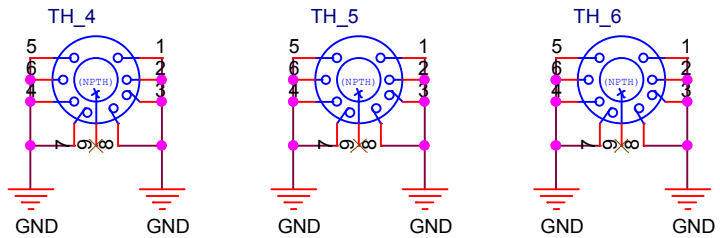
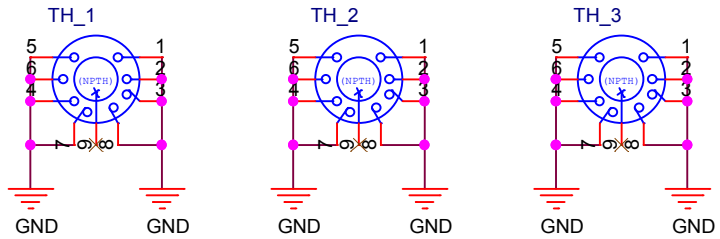


If none of the GTP Quads in a power supply group are used in the application, the GTP Quad device pins can be connected as shown in [Table 5-4](#).

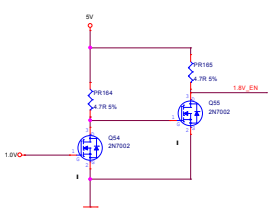
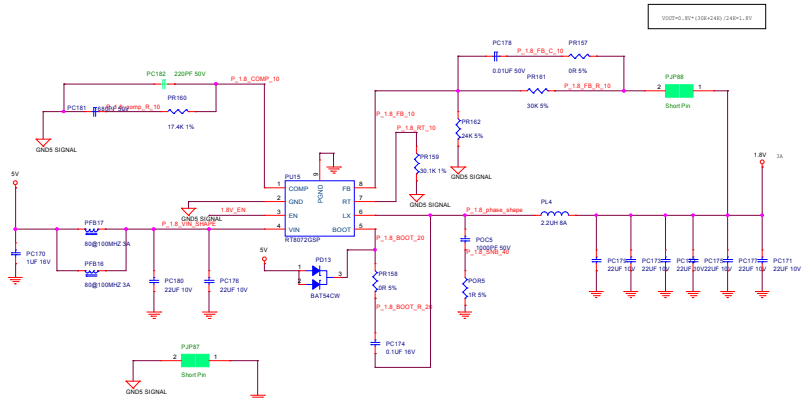
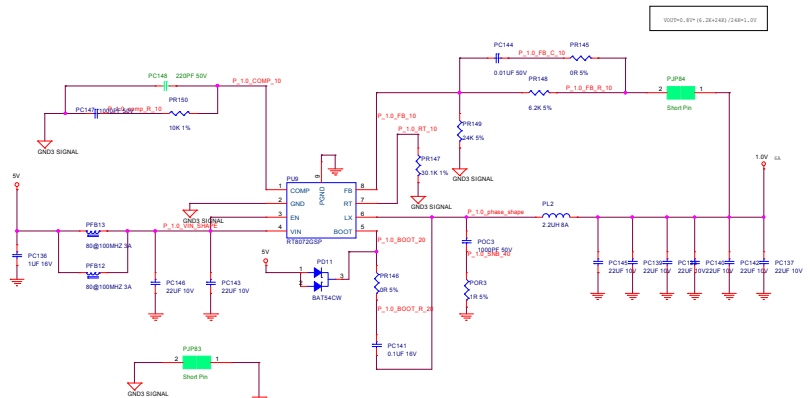
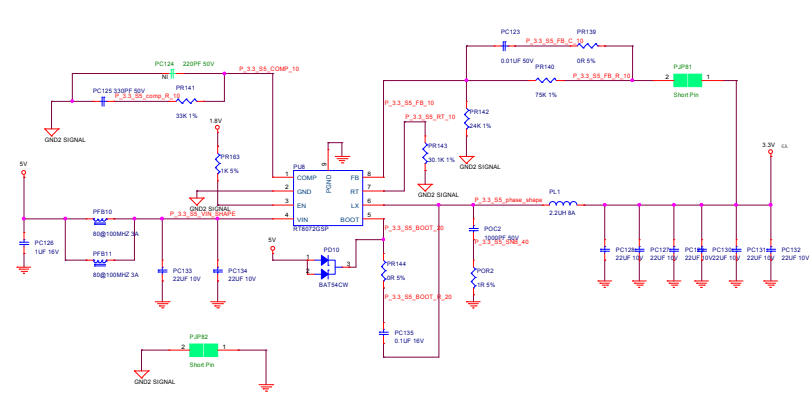
Pin or Pin Pair of the Unused GTP Quad	Connection
MGTAVCC	GND
MGTAVTT	GND
MGTREFCLKP/MGTREFCLKN	Float
MGTRXP/MGTRXN	GND
MGTTXP/MGTTXN	Float
MGTRREF ⁽¹⁾	GND

1. This is the only scenario when the MGTREF pins can be connected to ground. In all other scenarios, these pins must be connected for normal operation.

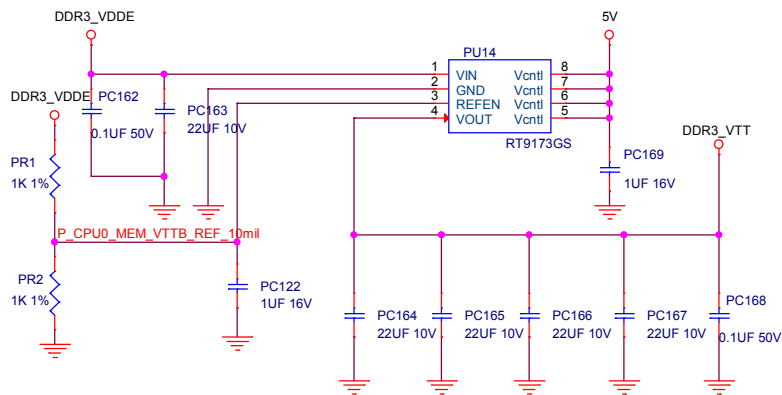
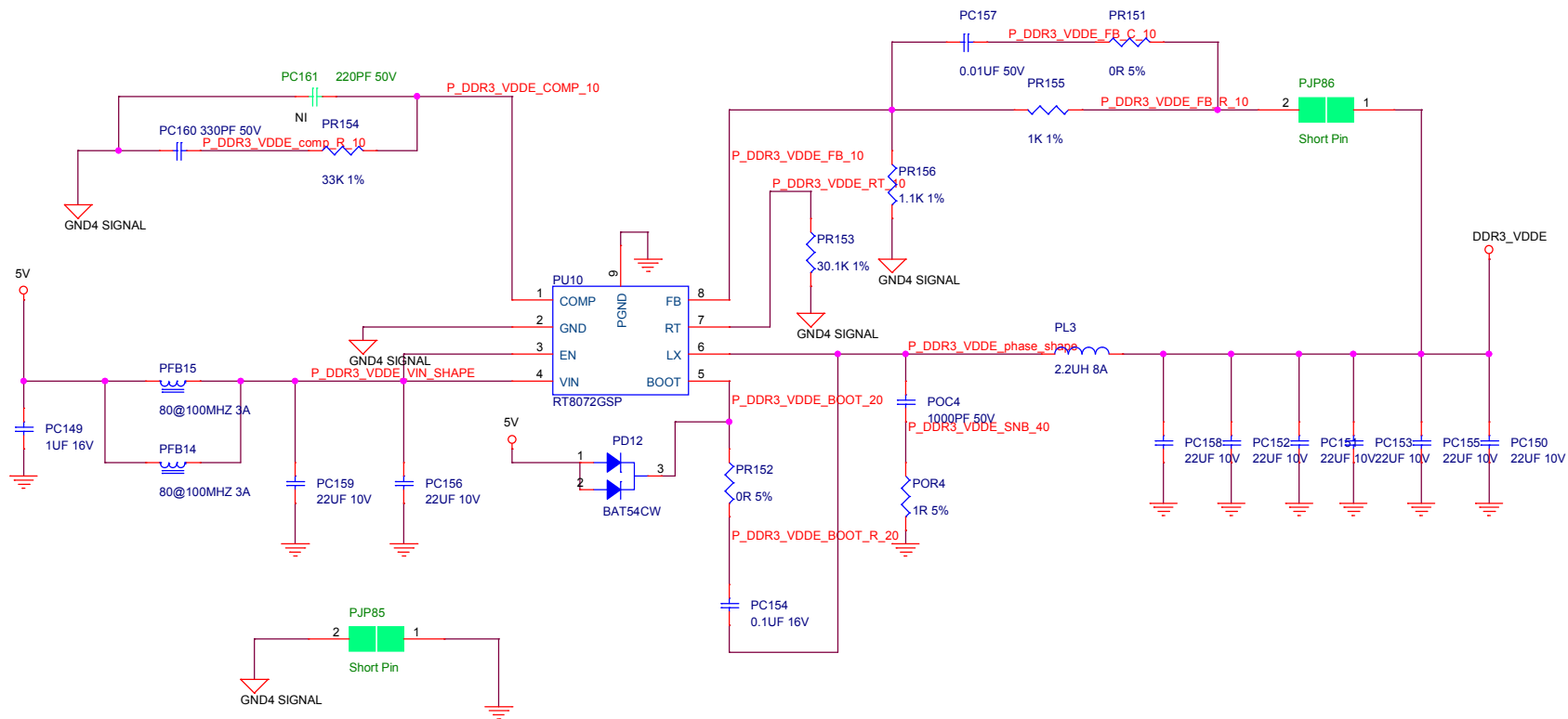




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板卡名称 FPGA-A7-PRJ-UDB			
Size A	部门		



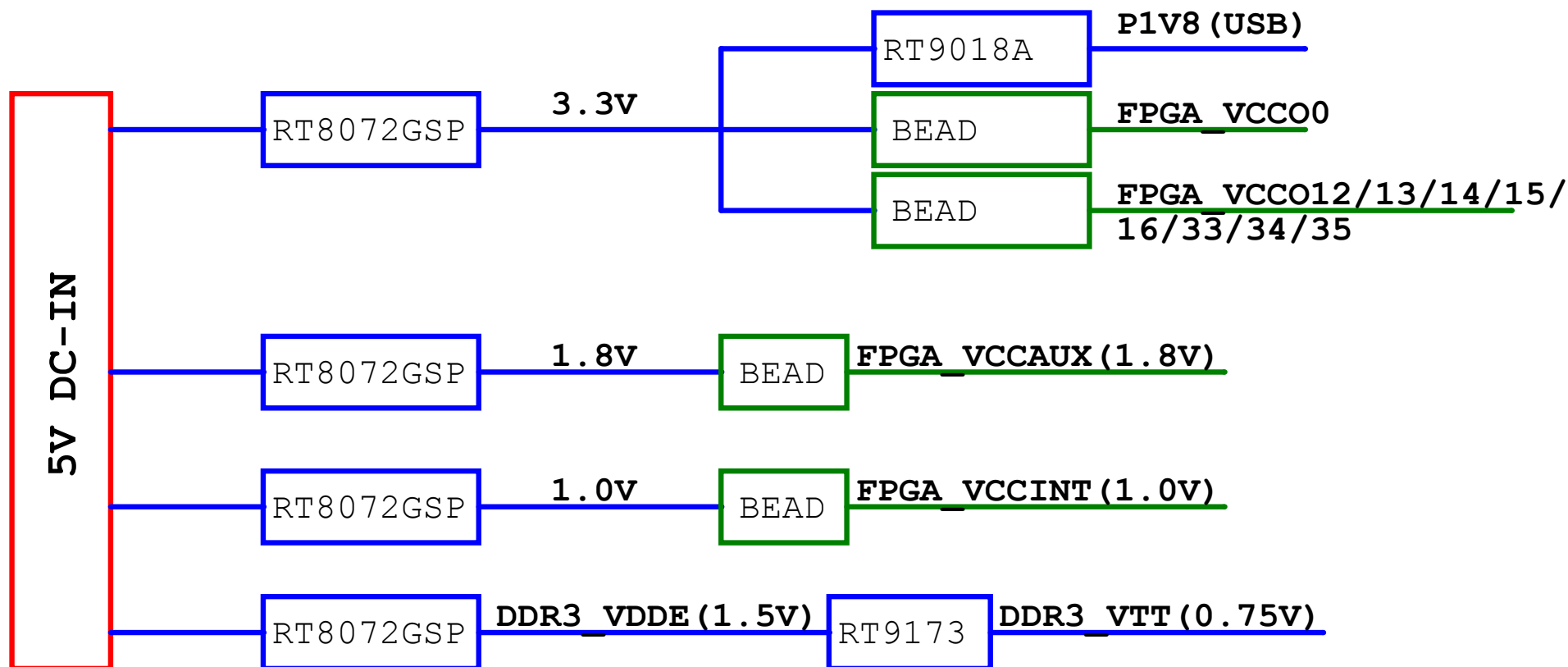
V _{out} (V)	R _{F81} (kΩ)	R _{F82} (kΩ)	R _C (kΩ)	C _C (nF)	L (μH)	C _{out}
3.3	75	24	33	0.33	0.47	Cer. 20μF + E-Cap 100μF
2.5	51	24	24	0.47	0.47	Cer. 20μF + E-Cap 100μF
1.8	30	24	18	0.56	0.47	Cer. 20μF + E-Cap 100μF
1.5	21	24	15	0.68	0.33	Cer. 20μF + E-Cap 100μF
1.2	12	24	12	1	0.33	Cer. 20μF + E-Cap 100μF
1	6	24	10	1	0.33	Cer. 20μF + E-Cap 100μF



$$P = (V_{IN} - V_{OUT}) * I_{out} < 1.3W$$

$$I_{OUT} < 1.44A$$

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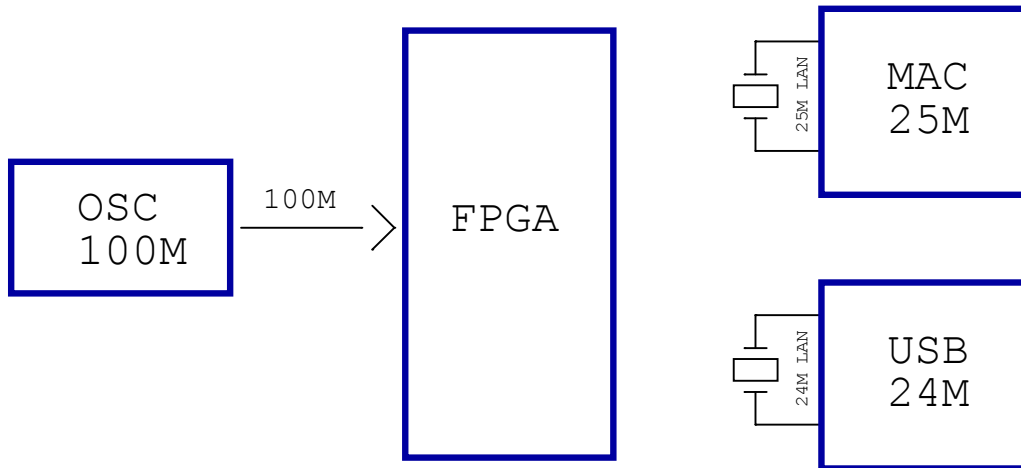
北京市海淀区稻香湖路中关村环保科技示范园龙芯产业园

板卡名称 FPGA-A7-PRJ-USB

Size A	部门 通用事业部	Rev V1.0
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板卡名称 FPGA-A7-PRJ-UDB			
Size A	部门 通用事业部		Rev V1.0
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