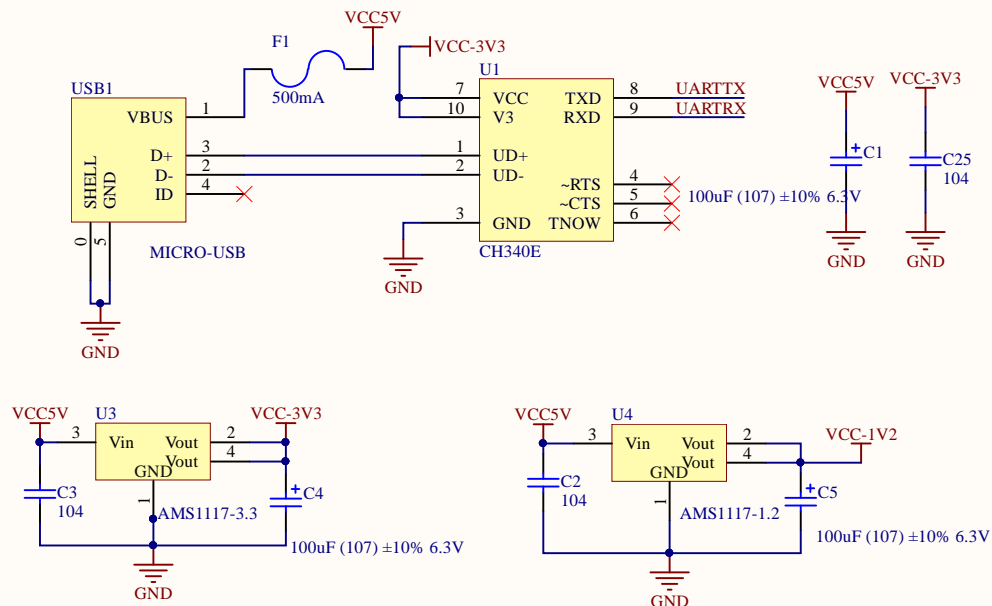
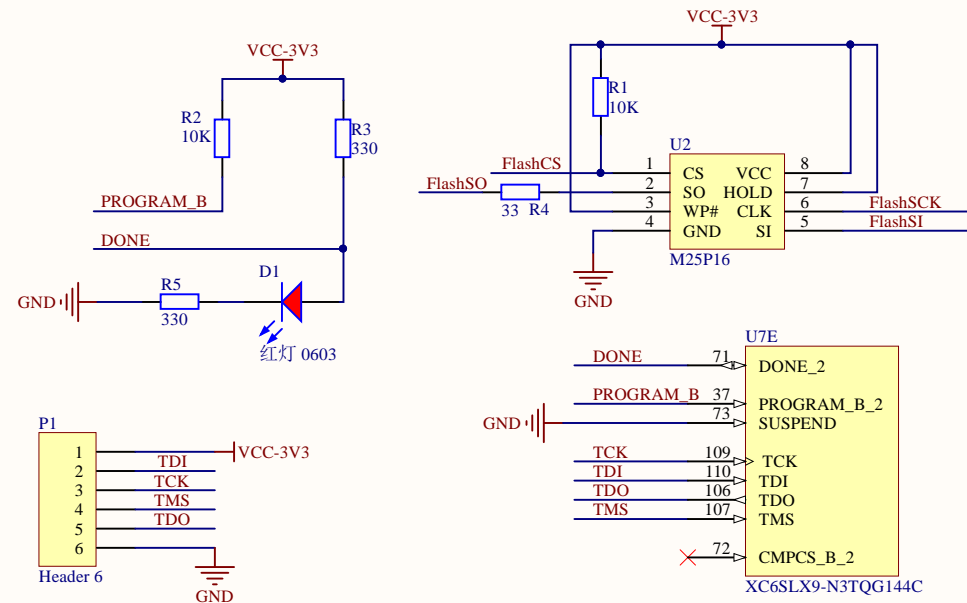


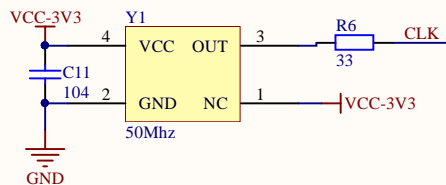
电源电路和USB to UART



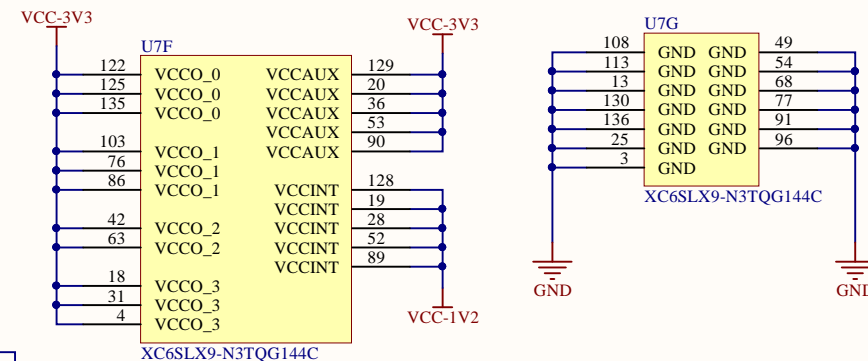
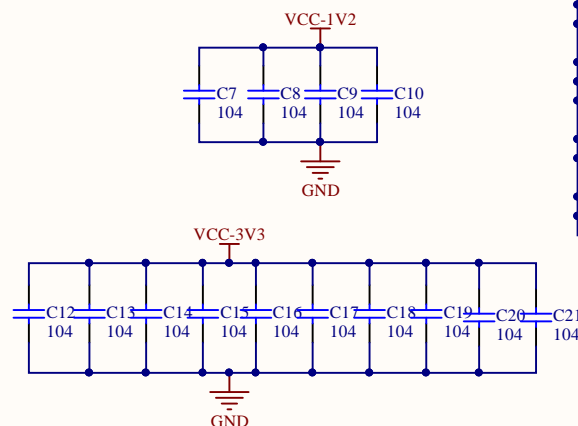
FPGA配置电路



时钟电路

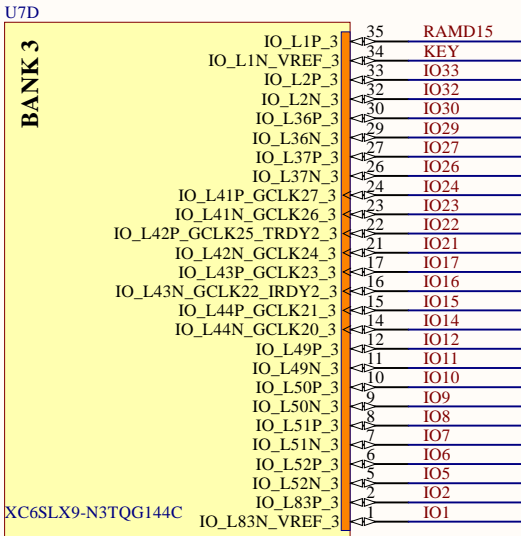
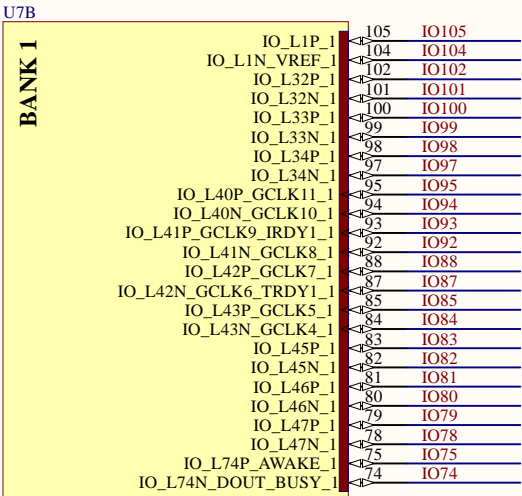
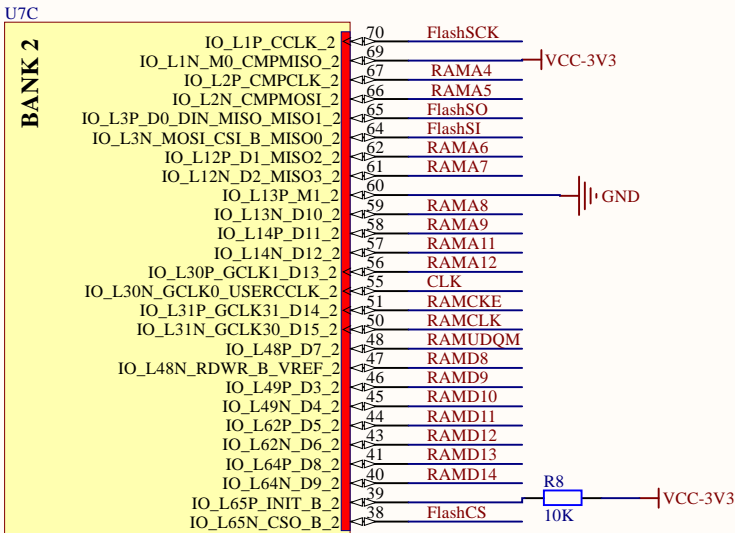
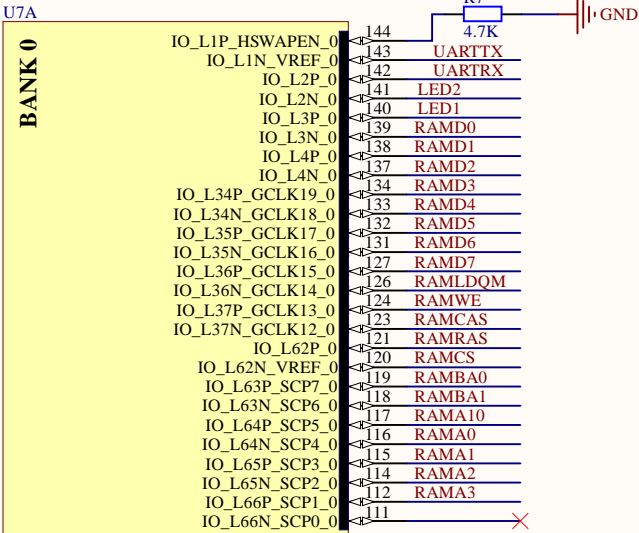


FPGA供电



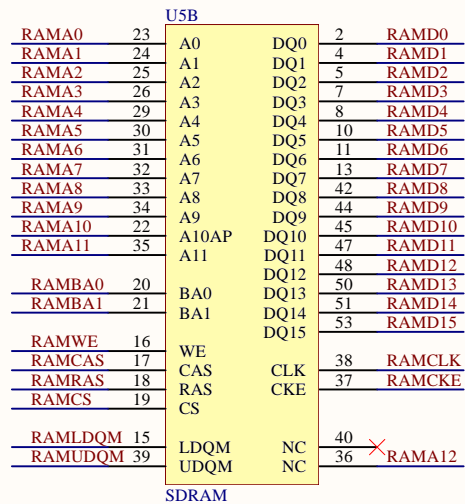
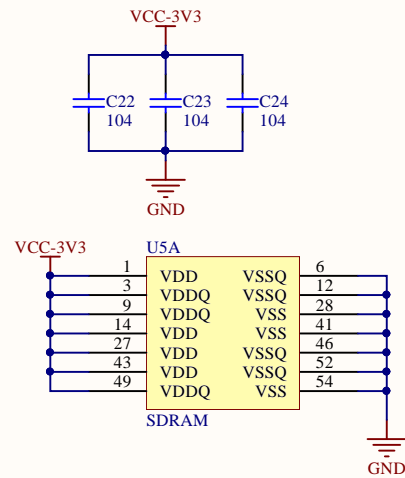
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FPGA CORE

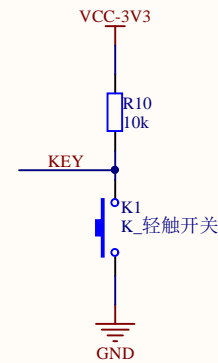


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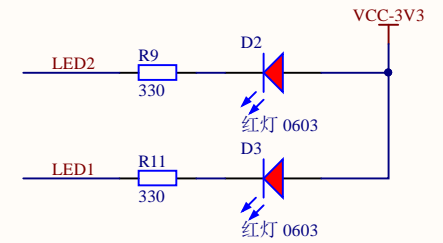
SDRAM



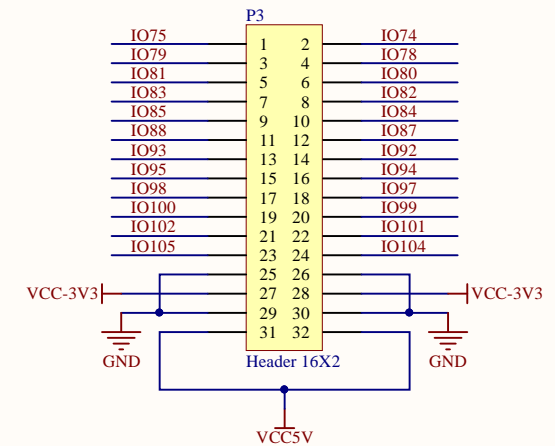
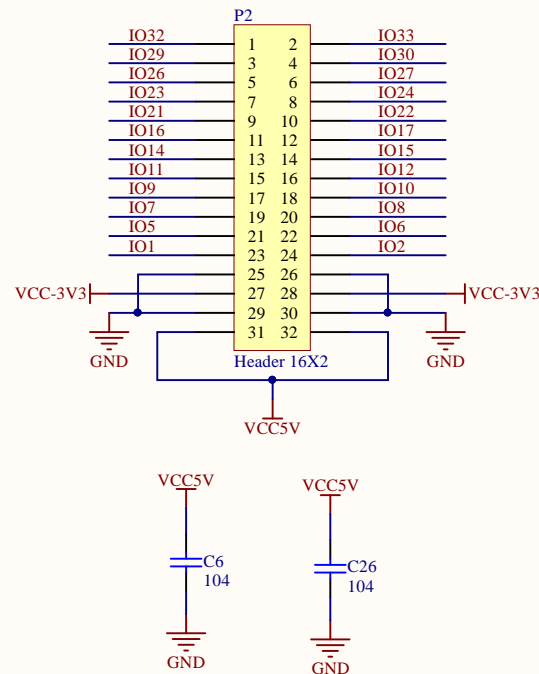
按键



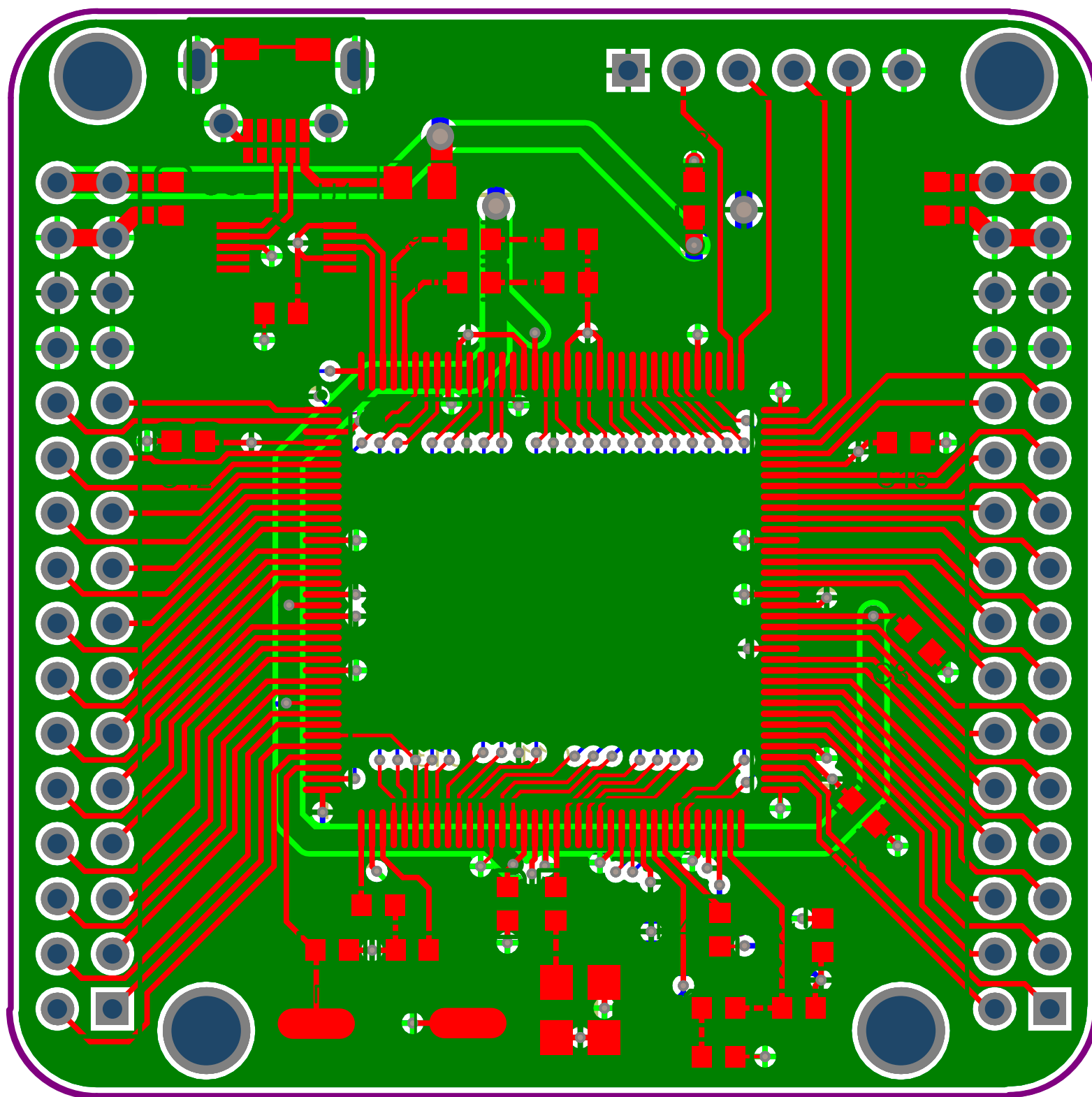
LED



GPIO接口



Title		
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File:	E:\硬件项目\Spartan6_mini\Sheet4.Sch	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
100uF (107) ±10% 6.3V	钽电容	C1, C4, C5	CASE-B_3528	3528 100uF (107) 10% 6.3V	3
104	贴片电容	C2, C3, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26	0603_C	0603 30pF (300) 5% 50V	23
红灯 0603	发光二极管	D1, D2, D3	0603_LED_S1	0603 红灯	3
500mA		F1	PTC[0805]	PTC	1
K_轻触开关		K1	KEY	K_轻触开关	1
Header 6	Header, 6-Pin	P1	HDR1X6	Header 6	1
Header 16X2	Header, 16-Pin, Dual row	P2, P3	HDR2X16	Header 16X2	2
10K	贴片电阻	R1, R2, R8, R10	0603_R	0603 9.1KΩ (9101) 1%	4
330	贴片电阻	R3, R5, R9, R11	0603_R	0603 9.1KΩ (9101) 1%	4
33	贴片电阻	R4, R6	0603_R	0603 9.1KΩ (9101) 1%	2
4.7K	贴片电阻	R7	0603_R	0603 9.1KΩ (9101) 1%	1
CH340E		U1	MSOP10	CH340E	1
M25P16		U2	SO-8	W25Q64	1
AMS1117-3.3		U3	SOT-223(AMS1117-3.3)	AMS1117-3.3	1
AMS1117-1.2		U4	SOT-223(AMS1117-3.3)	AMS1117-3.3	1
SDRAM		U5	SDRAM	SDRAM	1
XC6SLX9-N3TQG144C	Spartan-6 LX 1.2V FPGA, 102 User I/Os, 144-Pin TQFP (0.5mm Pitch), Speed Grade 3N, Commercial Grade, Pb-Free	U7	TQG144_N	XC6SLX9-N3TQG144C	1
MICRO-USB		USB1	MICRO-USB	MICRO-USB	1
50Mhz		Y1	XTAL5032	有源晶振	1