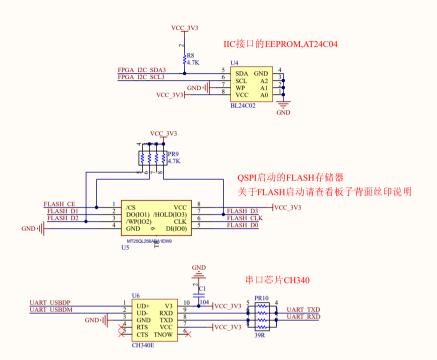
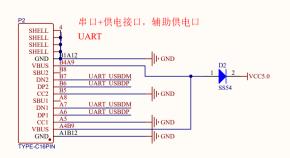
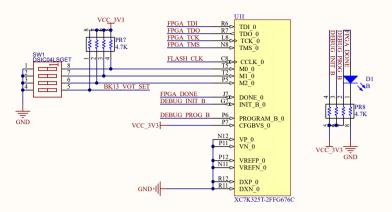
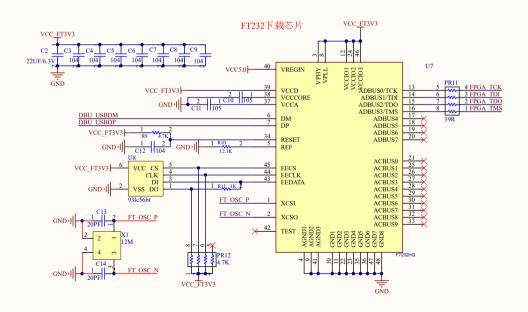
KINTEX-7芯片的调试接口部分



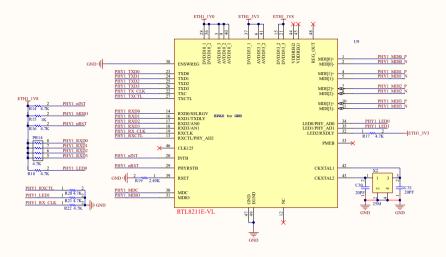


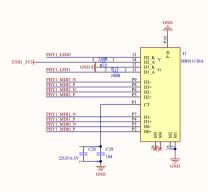






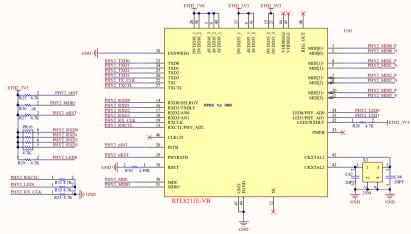
1.8V电平标准IO的千兆网PHY芯片

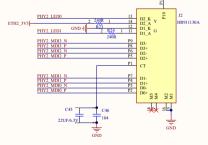






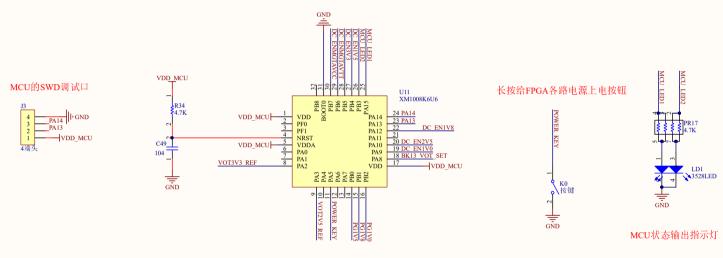
3.3V电平标准的千兆网PHY芯片



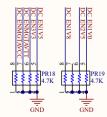


3.3V供电IO实际也可以使用VL后缀,实际需要调RGMII的IO Delay

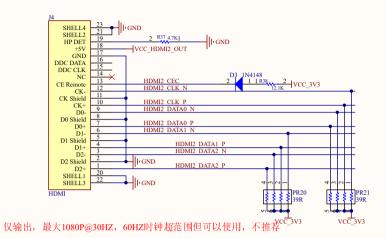
用于控制电源芯片上电顺序的ARM芯片

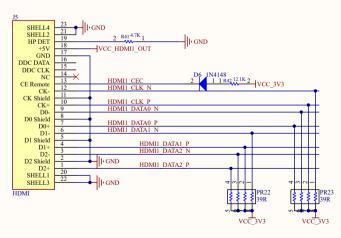


所有控制电源使能信号必须下拉保证稳定



HDMI接口都是3.3V的TMDS电平标准

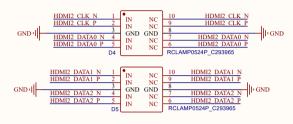




仅输出,最大1080P@30HZ,60HZ时钟超范围但可以使用,不推荐

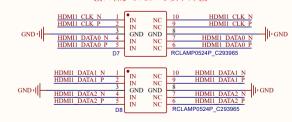


接口保护TVS, 可以不焊接

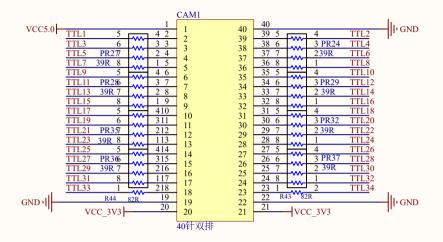


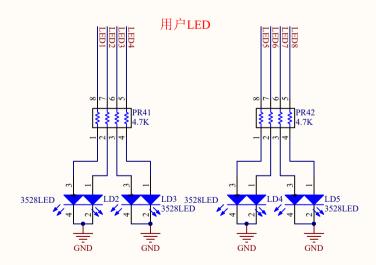


接口保护TVS, 可以不焊接

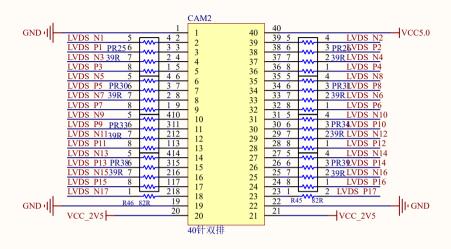


BANK16扩展出来的3.3V标准IO

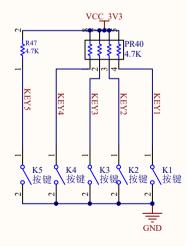




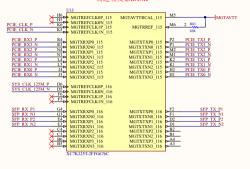
BANK13扩展出来的2.5/3.3V可调IO, 支持LVDS(仅2.5V)

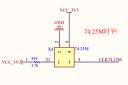


用户按钮



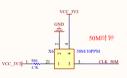
高速收发器BANK

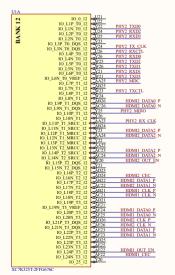


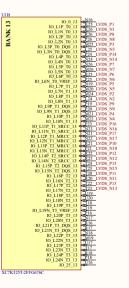


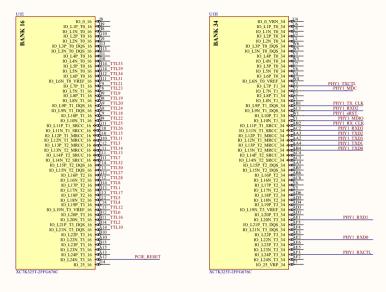
如果用户需要使用万兆以太网光通信功能,虚将这个晶振更换为156.25Mbz

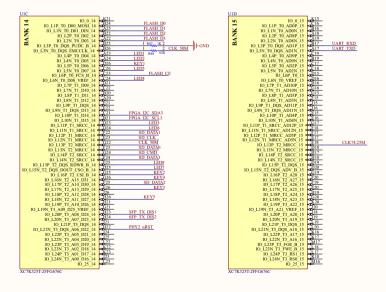


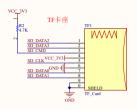


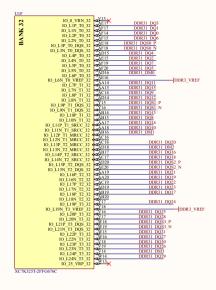


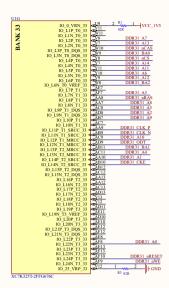








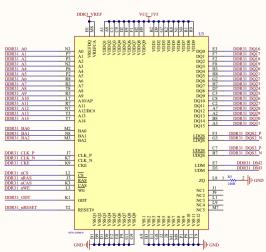




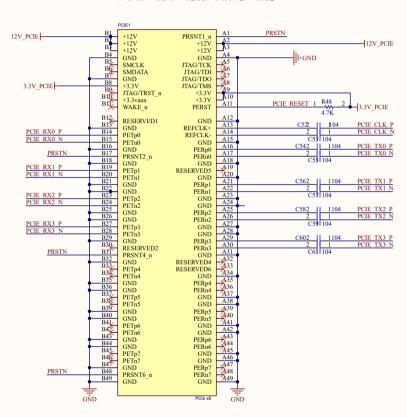
DDR3

			DDR3_VRI	EF	VCC_IV	5			
DDR3_VTT			-				-		
T PR1			Il	1111111	11.1	111111	I I		
4 DDR31_A7			₩	기원 기원 위원 기원	2 E	3 5 2 2 2 3 3	2		
3 DDR31 A9			7 7	-I-I-I-I-I-I-I	יור ורוי		U2		
2 DDR31 A13									
1 DDR31 A5			25	388888	88 5	VDD4 VDD4 VDD5 VDD7 VDD7	88		
DDR31_A3	DDR31 A0	N3	E 2		ăă ā	555555	ᅙᅙ	E3	DDR31 DO0
39R	DDR31 Al	P7	VREFDQ VREFCA	V V V V V V V V V V V V V V V V V V V	66 >	>>>>>	>> DQ0	F7	DDR31 DQ0
DD 2	DDR31 A2	P3	A1 55				DQ1	F2	DDR31 DQ1
4 DDR31 A4			A2				DO2		
3 DDR31 A6	DDR31 A3	N2	A3				DQ3	F8	DDR31 DQ3
2 DDR31 A8	DDR31 A4	P8	A4				DQ4	H3	DDR31 DQ4
1 DDR31 BA2	DDR31 A5	P2	A5				DQ5	H8	DDR31 DQ5
	DDR31 A6	R8	A6				DQ6	G2	DDR31 DO6
39R PR3	DDR31 A7	R2					DQ6 DO7	H7	DDR31 DO7
PR3 4 DDR31 A12	DDR31 A8	T8	A7					D7	DDR31 DO8
4 DDR31_A12 3 DDR31_BA1	DDR31 A9	R3	A8				DQ8	C3	DDR31 DO9
2 DDR31 A10	DDR31 A10	L7	A9				DQ9	C8	DDR31 DO10
	DDR31 All	R7	A10/AP				DQ10	C2	DDR31 DQ10
1 DDR31 CKE	DDR31 A12	N7	All				DQ11	A7	DDR31 DQ11
39R			A12/BC#				DQ12		
	DDR31 A13	T3	A13				DQ13	A2	DDR31 DQ13
PR4 4 DDR31 ODT	DDR31 A14	T7	A14				DQ14	B8	DDR31 DQ14
3 DDR31 nCS							DQ15	A3	DDR31 DQ15
	DDR31 BA0	M2	BA0				DQID		
2 DDR31 nRAS	DDR31 BA1	N8	BA1				I DOG	F3	DDR31 DQS0 P
1 DDR31_nCAS	DDR31 BA2	M3	BA2				LDOS	G3	DDR31 DQS0 N
39R			BAZ				LDQS		
39K								C7	DDR31 DOS1 P
PR5	DDR31 CLK P	37					UDQS	B7	DDR31 DOS1 N
4 DDR31 BA0	DDR31 CLK N	K7	CLK_P				UDQS		
3 DDR31 nWE	DDR31 CKE	K9	CLK_N					E7	DDR31 DM0
2 DDR31 A0	DDK31 CKE	K.9	CKE				LDM	D3	DDR31 DM1
1 DDR31 A2	DDR31 nCS	L2					UDM	103	DDK31 DW1
****		J3	CS						P4 - 1-
39R	DDR31 nRAS	J.5	RAS				ZQ	L8 1	GND
	DDR31 nCAS	К3	CAS						240R
PR6	DDR31 nWE	L3	WE				NC1	Jl	
4 DDR31 A3			****				NC2	J9	
3 DDR31_A1	DDR31_ODT	K1	ODT				NC3	Ll	
2 DDR31_A11			ODI				NC4	L9	
1 DDR31_A14	DDR31 nRESET	T2	RESET#				NC4 NC5	M7	
			RESEI#	0.00.00.00.00.00.00					
39R	R6		0	0000000000	-00	4001-80	2 2 2		
	4.7K		88	88888888888888888888888888888888888888	888	888888	888		
DDR31 CLK N 1 R7. 2 DDR31 CI	K P		>	>>>>>>	>>>	>>>>>	>>>		
82R					-				
		MT61J2	sam	8 5 2 2 2 2 5 5	9 2 5 9	2 2 2 2 2 2 2 2 2			
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	GND		GND	*****		*****	* * * 	GND	

DDR3

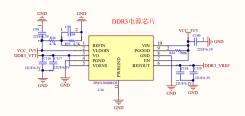


PCIE金手指,使用X8宽度,实际是X4位宽

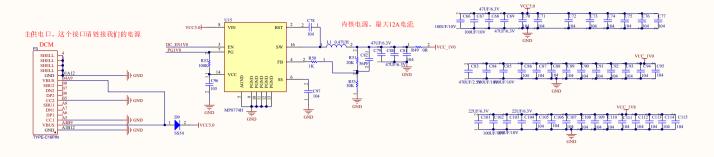


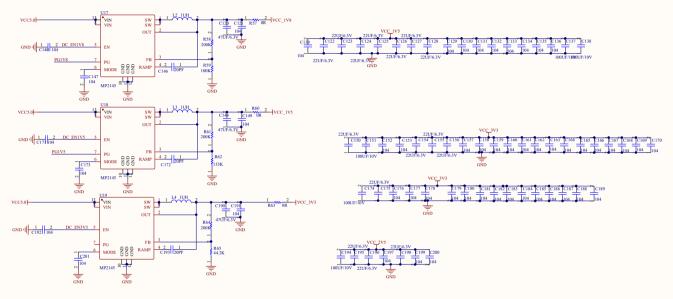
用于电源上电控制的MCU电源



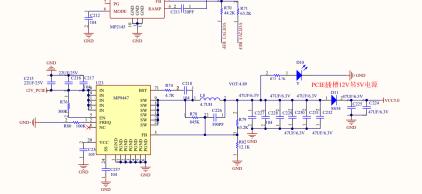








2.5V/3.3V可调



VIN VIN

GND | 1 2 DC EN2V5 5

