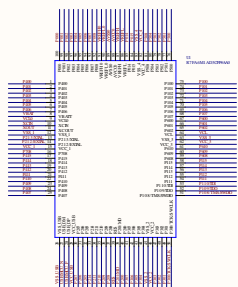
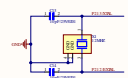


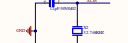
MCU



THACH ANH 12MHz



THACH ANH 32.768KHz



3V3_MCU



GND

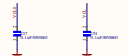
TU LOC NHIEU 3V3_MCU



TU LOC NHIEU 3V3



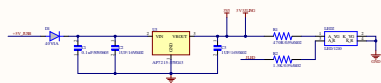
KEO XUONG DAT QUA TU LOC



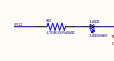
TRO KEO LEN



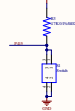
5V -> 3.3V



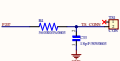
LED -> P112



BUTTON -> P145



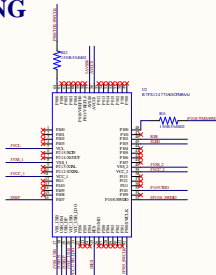
JUMP -> P207



BIEN TRO -> P004



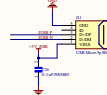
JLING



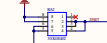
TU LOC NHIEU 3V3_JLING



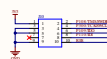
USB_MICRO -> JLING



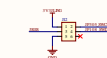
JP407 -> +5V_USB



JUMP_2X5_MCU



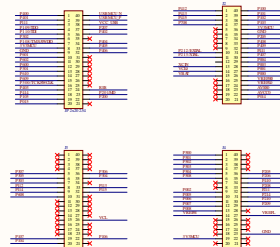
JUMP_2X3_JLING



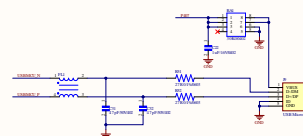
TRO KEO LEN



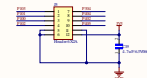
JUMP



USB DEVICE INTERFACE



JUMP_MCU_6X2



JUMP_MCU_6X1



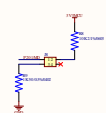
TU LOC 3V3

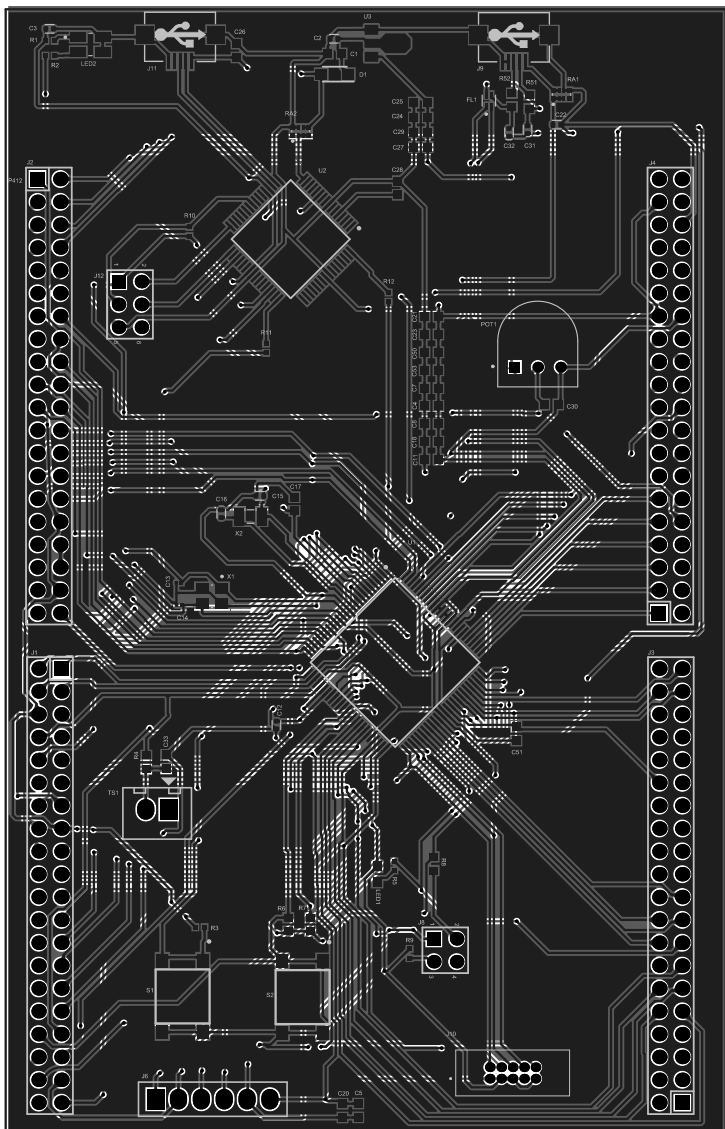


RESET_MCU



MCU MODE CONFIG





Comment	Description	Designator	Footprint	Refur	Quantity
0.1uF/50V/0402	0.1uF Ax10% 50V Ceramic Capacitor X7R 0402_1608 Metric	C1, C3, C7, C8, C11, C17, C18, C21, C22, C24, C25, C26, C27, C29, C30, C50, C51, C53	CAP1608K90N	CL10B104K8NNNC	18
1uF/16V/0402	1uF Ax10% 16V Ceramic Capacitor X5R 0402 (1005 Metric)	C2, C3, C22	CAP1005K55N	CL05A105K05NNNC	3
4.7uF/50V/0402	0.1uF Ax10% 50V Ceramic Capacitor X7R 0402_1608 Metric	C4	CAP1608K90N	CL10B104K8NNNC	1
0.01uF/50V/0402	1uF Ax10% 16V Ceramic Capacitor X5R 0402 (1005 Metric)	C12	CAP1005K55N	CL05A105K05NNNC	1
10uF/25V/1207	0.001	C13, C14	RES0360320N	RES090320N	2
10uF/50V/0402	1uF Ax10% 16V Ceramic Capacitor X5R 0402 (1005 Metric)	C15, C16	CAP1005K55N	CL05A105K05NNNC	2
4.7uF/6.3V/0402	0.1uF Ax10% 50V Ceramic Capacitor X7R 0402_1608 Metric	C19, C20	CAP1608K90N	CL10B104K8NNNC	2
4.7uF/6.3V/0402	0.1uF Ax10% 50V Ceramic Capacitor X7R 0402_1608 Metric	C28	CAP1608K90N	CL10B104K8NNNC	1
47uF/50V/402	1uF Ax10% 16V Ceramic Capacitor X5R 0402 (1005 Metric)	C31, C32	CAP1005K55N	CL05A105K05NNNC	2
10uF/50V/0402	0.1uF Ax10% 50V Ceramic Capacitor X7R 0402_1608 Metric	C33	CAP1608K90N	CL10B104K8NNNC	1
40V/1A	Diode Schottky 40V 1A SMD 129FL G1N Semiconductor MBR1405T1G Schottky Diode - 1A, 40V, 2-Pin SMD (129FL)	D1	SODFL3616X98N	MBR1405T1G	1
DLP115N201H4L2L	2-Line Common Mode Choke Surface Mount 200 Ohms @ 100MHz 15mm Lx20mm	FL1	FL_DLP115N201H4L2L	DLP115N201H4L2L	1
JP 2x20 2.54	Clm	J1, J2, J3, J4	JP 2x20 DT	JP 2x20 2.54 Duc Thru	4
Header 6X2A	Header, 6-Pin, Dual Row	J5	HER20A_CEN	Header 6X2A	1
JP5	JPm 5	J6	JPm5	JPm 5	1
JP2x2	JPm 2	J8	HER202	JP2x2	1
USB Micro sp 5402	USB Type B Conn 5-Pin Shield Header (4 Sides) HDR 0.1POS 1.27mm Solder (31 Thru Hole	J9, J11	USB Micro sp 5402	USB Micro sp 5402	2
3220 10 0100 00	Header (4 Sides) HDR 0.1POS 1.27mm Solder (31 Thru Hole	J10	322010010000	3220 10 0100 00	1
LED 3x2	Connector 3x2	J12	HER203	JP3x2	1
LED 0402	http://ledlight.com/ital-c1900k41-810-on-549993	LED1	0402	LTST-C1910KRT	1
LED 1210	Standard LED - SMD Red/Green WVC 80V/50mcd 645/570nm	LED2	LED_597-7701-507F	598-8610-207F	1
10K0	10 Kohms 0.5W 1/2W Through Hole Roundbared Potentiometer Top Adjustment	POT1	TRIM_3352T-1-103LF	3352T-1-103LF	1
470K/0.5%/0402	Res Thin Film 0402 4.7K Ohm 0.5% 0.063W (1/16W) 25ppm/C Molded SMD Automotive Purchased T1/R	R1, R5	RES_ERADAED472X	ERA2AED472X	2
1.5K/0.5%/0402	Res Thin Film 0402 4.7K Ohm 0.5% 0.063W (1/16W) 25ppm/C Molded SMD Automotive Purchased T1/R	R2	RES_ERADAED472X	ERA2AED472X	1
470K/1%/0402	Res Thin Film 0402 4.7K Ohm 0.5% 0.063W (1/16W) 25ppm/C Molded SMD Automotive Purchased T1/R	R3	RES_ERADAED472X	ERA2AED472X	1
500K/1%/0402		R4	RES1500K55N	RA0CF06031727R0	1
10K/1%/0402		R6, R7	RES1500K55N	RA0CF06031727R0	2
10K/1%/0402		R8	RES1500K55N	RA0CF06031727R0	1
1K50/0.5%/0402	Res Thin Film 0402 4.7K Ohm 0.5% 0.063W (1/16W) 25ppm/C Molded SMD Automotive Purchased T1/R	R9	RES_ERADAED472X	ERA2AED472X	1
4.7K/0.5%/0402	Res Thin Film 0402 4.7K Ohm 0.5% 0.063W (1/16W) 25ppm/C Molded SMD Automotive Purchased T1/R	R10	RES_ERADAED472X	ERA2AED472X	1
150K/1%/0402	Res Thin Film 0402 4.7K Ohm 0.5% 0.063W (1/16W) 25ppm/C Molded SMD Automotive Purchased T1/R	R11, R12	RES_ERADAED472X	ERA2AED472X	2
270K/1%/0402		R51, R52	RES1500K55N	RA0CF06031727R0	2
30K/0/0402	Resistor Networks & Arrays Resistor Array Chip 0804 4 elements	RA1, RA2	EXB20V510IX	EXB20V303IX	2
Switch	C & K COMPONENTS 1-PT540504C040T8903 1S, SWITCH, SPST, 0.05A, 12VDC, SMD, 4.3mm	S1, S2	PT5445(SMT)	PT544504C040T8903 IS	2
CON	connector 2	TS1	CON2	CON2	1
RT4AM1AD3CFAAA0	ARM Cortex-M0 SDA01 Microcontroller IC 32-Bit 120MHz 512KB (512K x 8) 14-148 100-LFQFP (144-146)	U1	QFP50P160X160X170-100N	RT4AM1AD3CFAAA0	1
RT5124773A01CFM0A1		U24	QFP50P1200X1200X170-64N	RT5124773A01CFM0A1	1
AP7215-33V-13	Linear Voltage Regulator IC 1-Output 600mA SOT-89-3	U3	SOT150P400X160-3N	AP7215-33V-13	1
12MHz	12MHz Ax20ppm Crystal 104° 120 Ohms 4-SMD, No Lead	X1	XTAL_ABMBG-12.000MHz-049-T	ABMBG-12.000MHz-049-T	1
32.768KHz	32.768kHz Ax20ppm Crystal 12-Spf 70 kOhms 2-SMD, No Lead	X2	XTAL_AB507-32.768KHz-T	AB507-32.768KHz-T	1