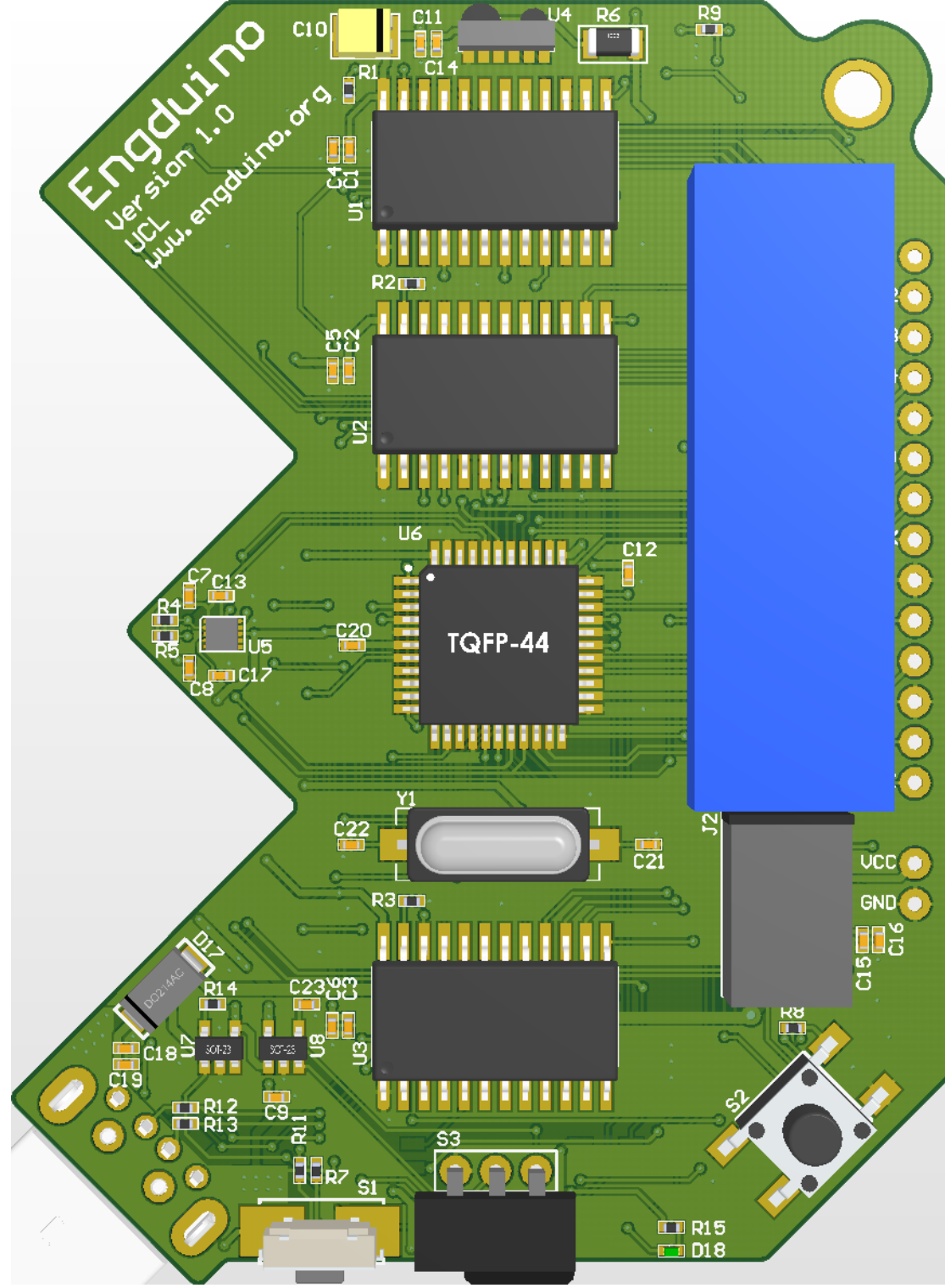
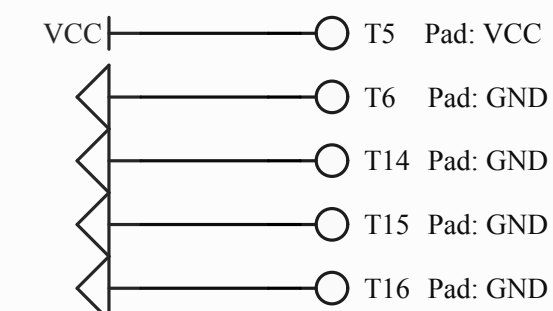
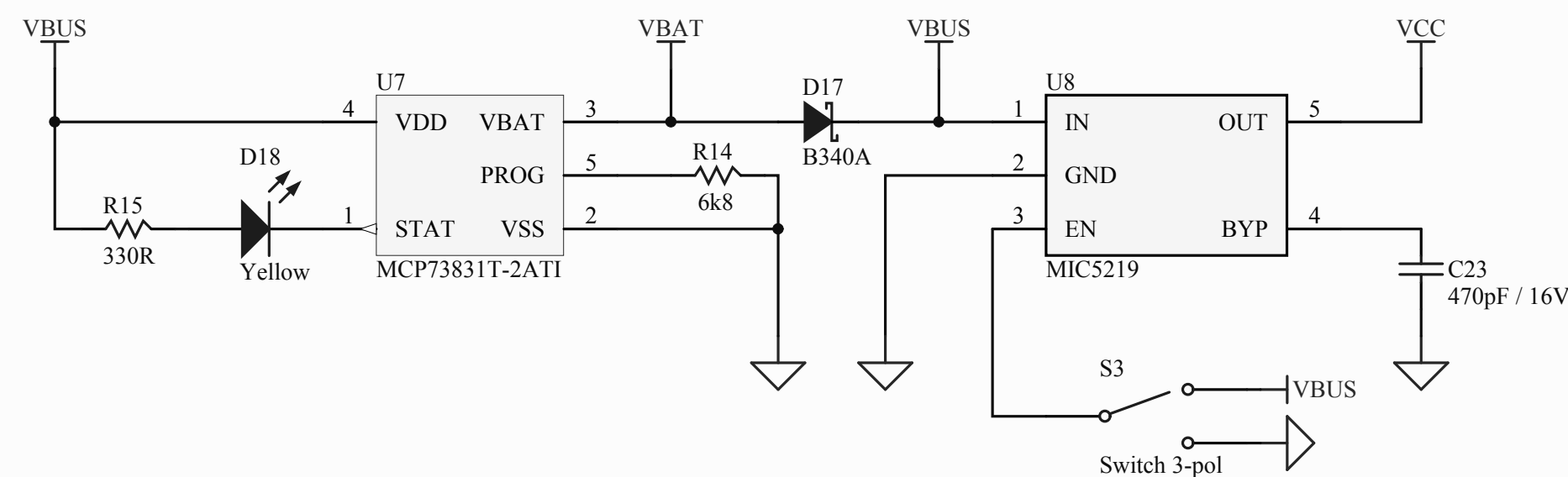
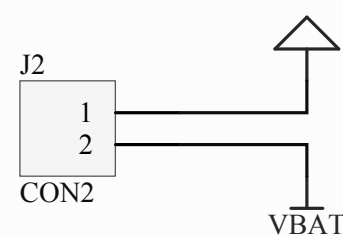
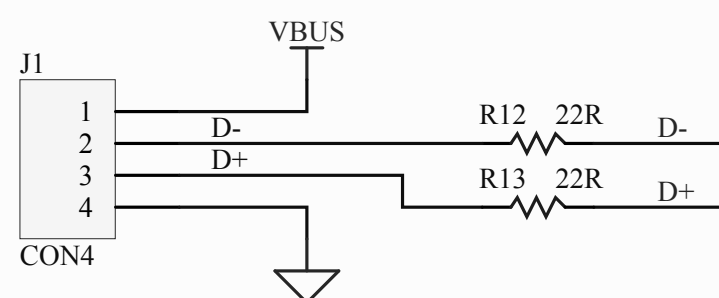
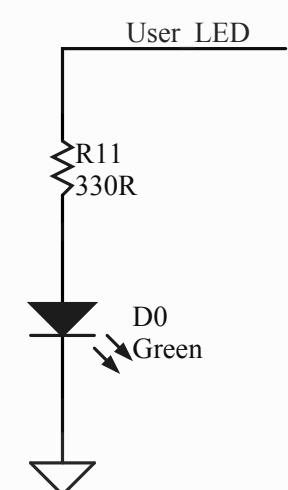
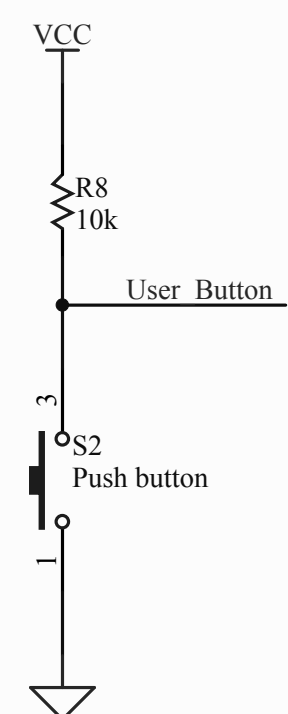
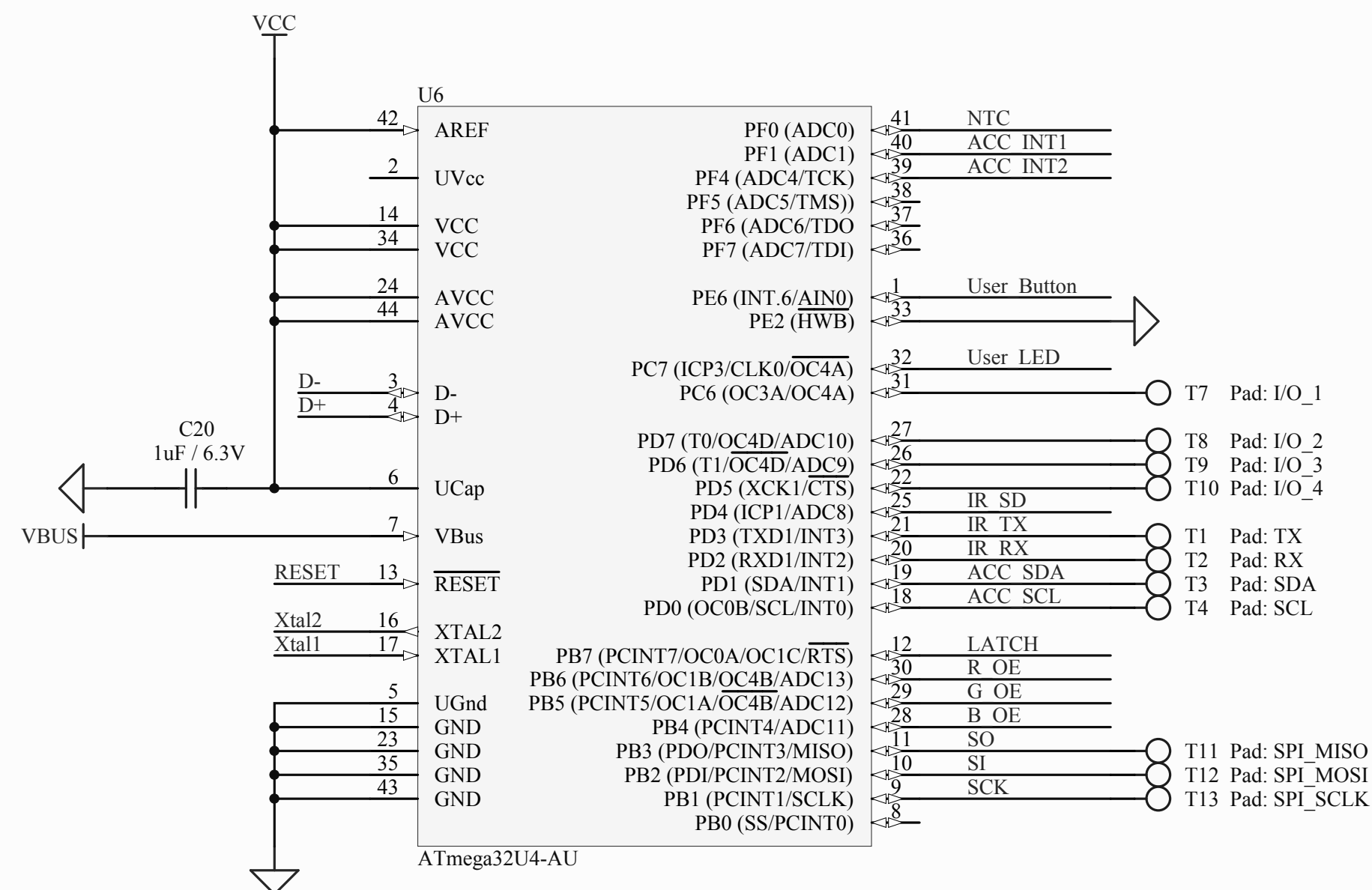
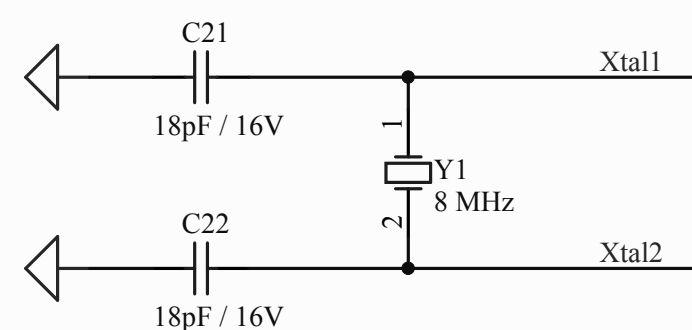
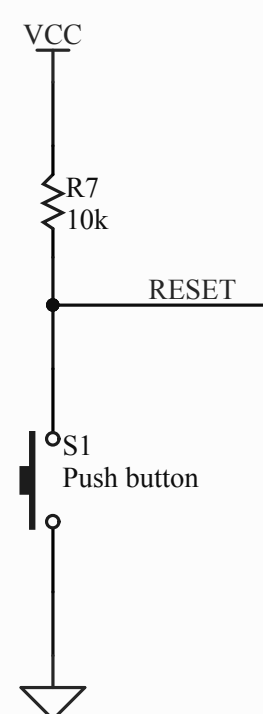
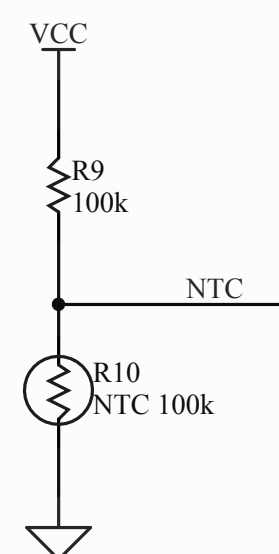
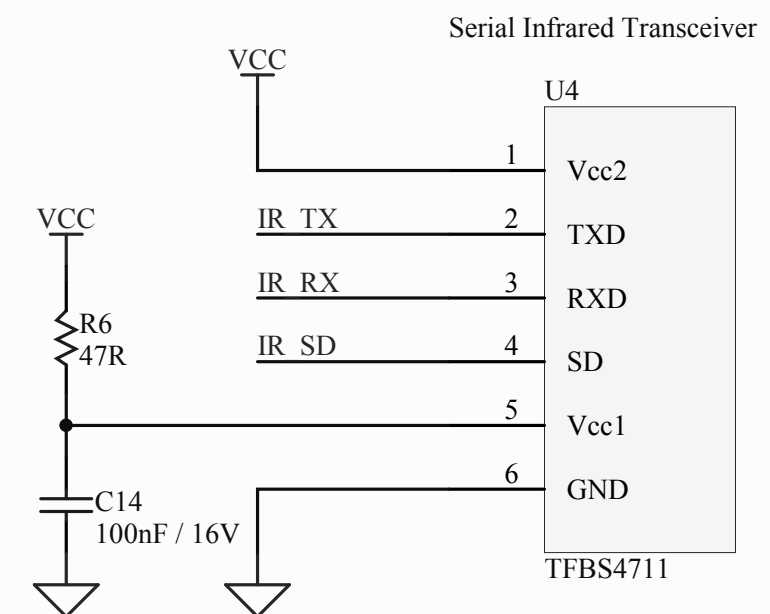
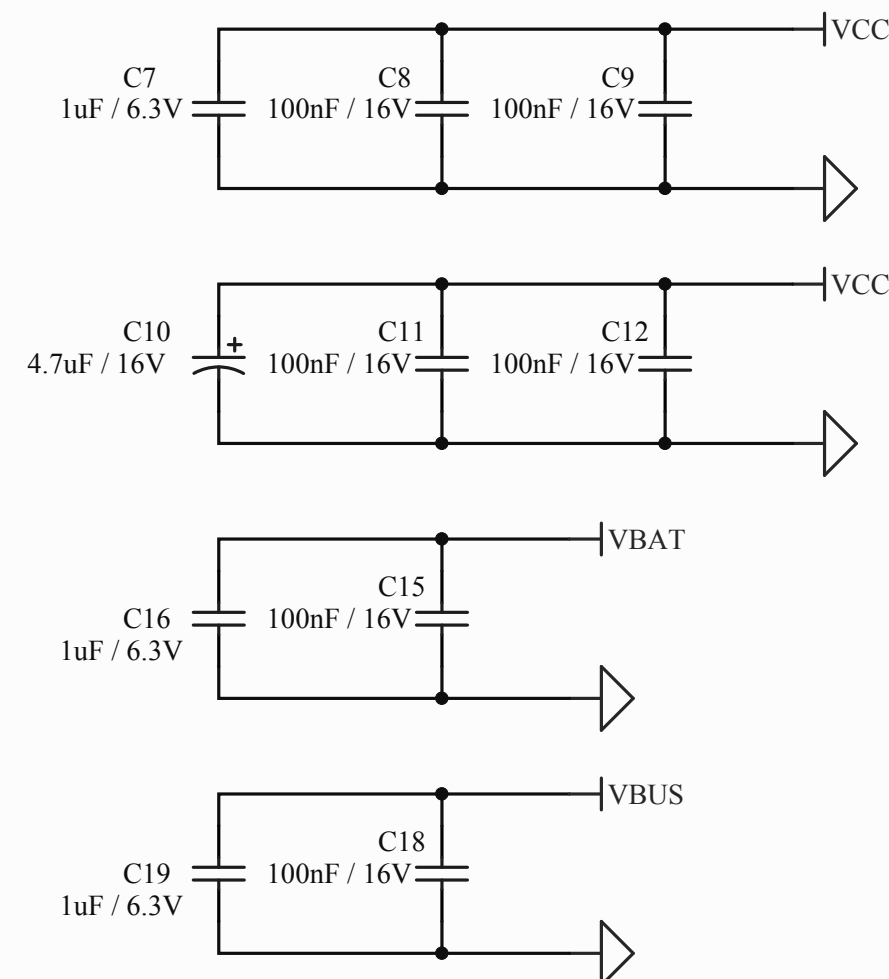
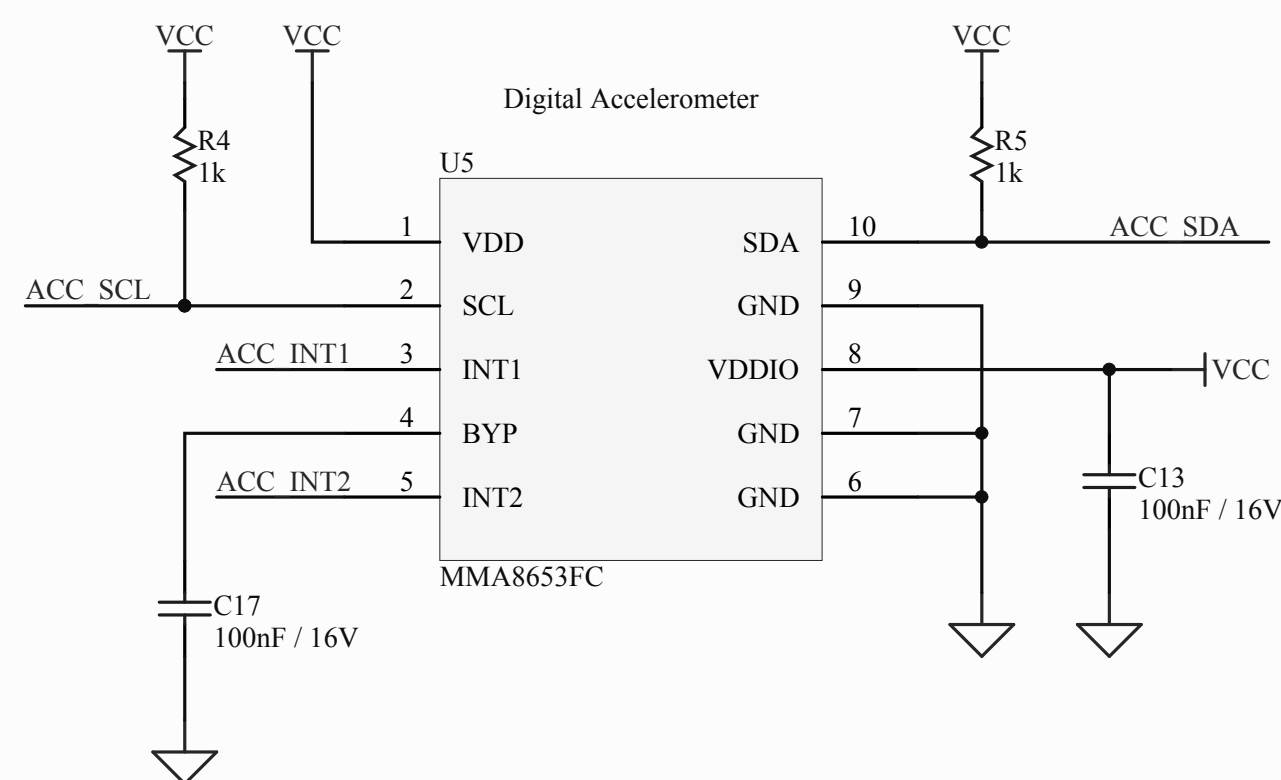
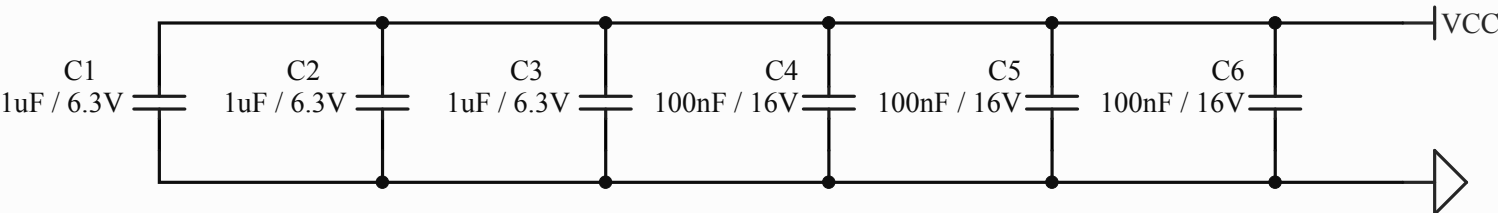
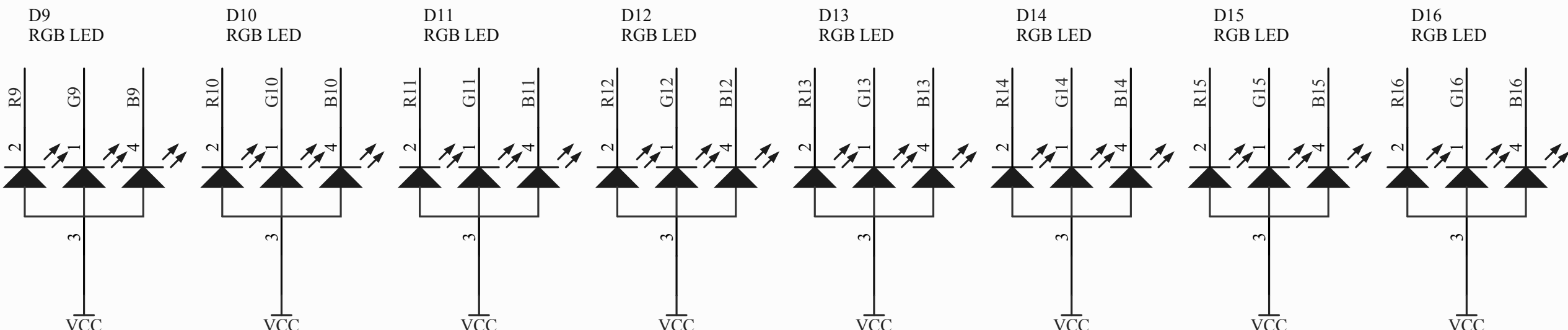
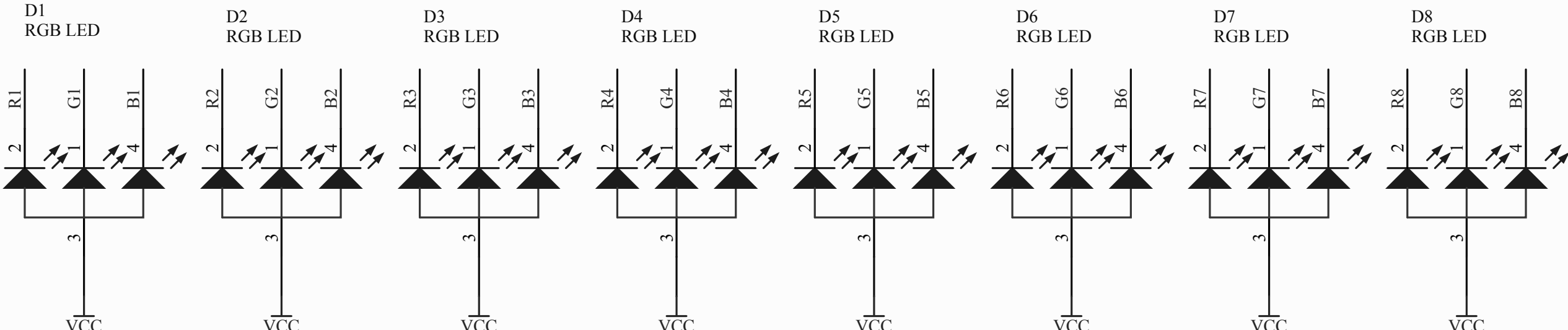
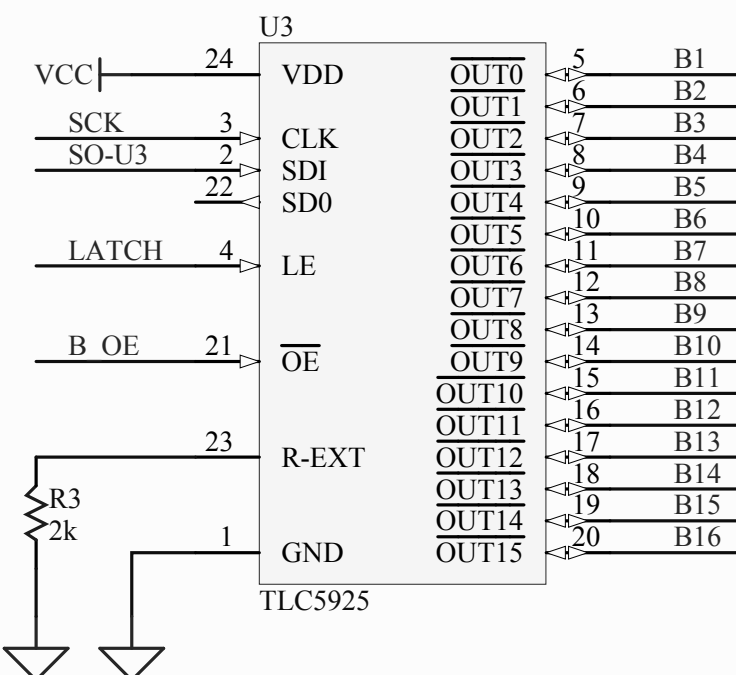
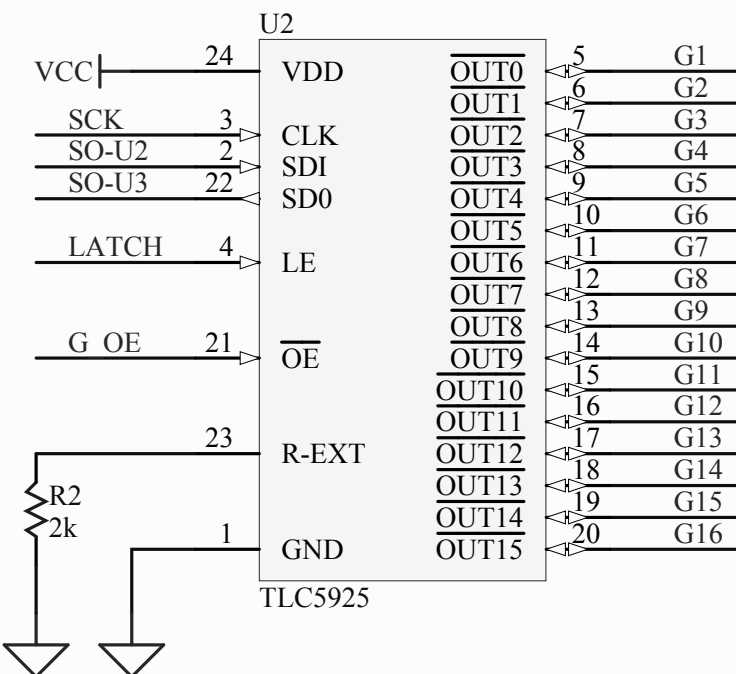
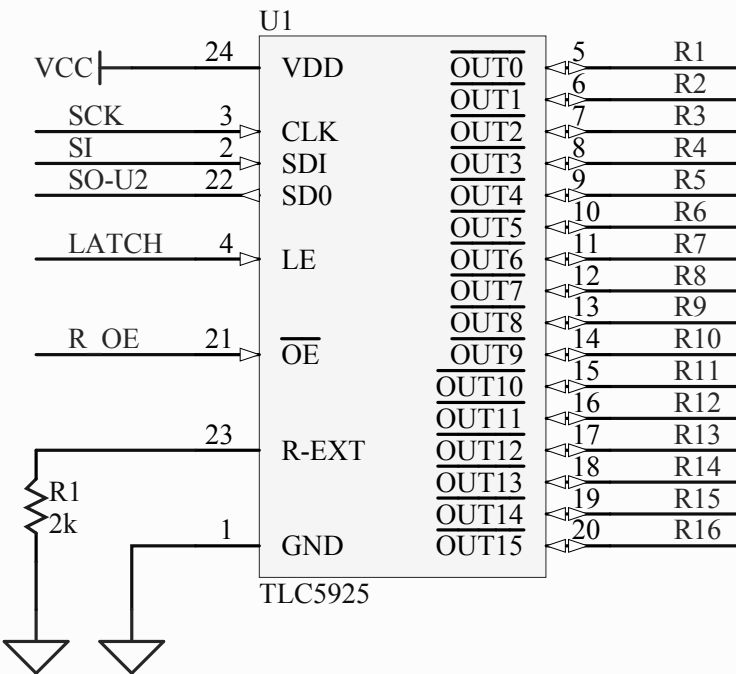








Output current is 10mA per channel.



<http://www.engduino.org>

Title <i>Engduino</i>			<i>UCL</i> <i>Drawn By:</i> <i>Jan Medvesek</i> <i>Checked By:</i> <i>Renzo De Nardi</i>	
Size: A3	Number:	Revision:1.0		
Date: 11.6.2013	Time: 22:24:40	Sheet2 of 2		
File: D:\2Vezja\UCL\Engduino\Engduino_LEDs.SchDoc				

Bill of Materials

Engduino

Source Data From:Engduino.PrjPCB

Project:Engduino.PrjPCB

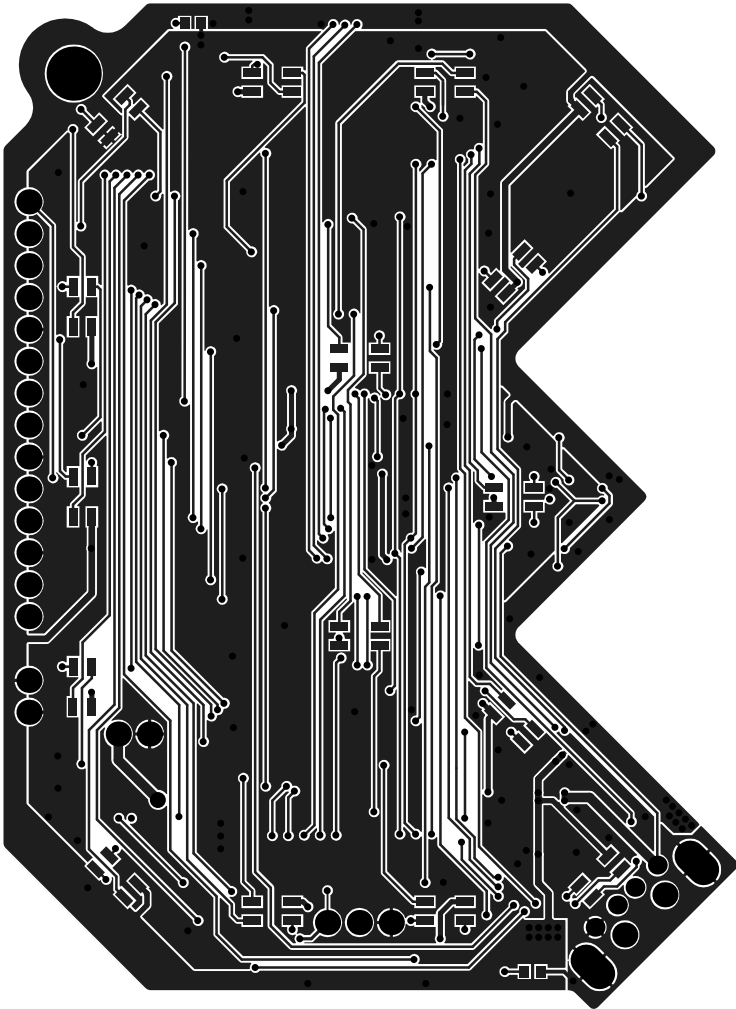
Variant:None

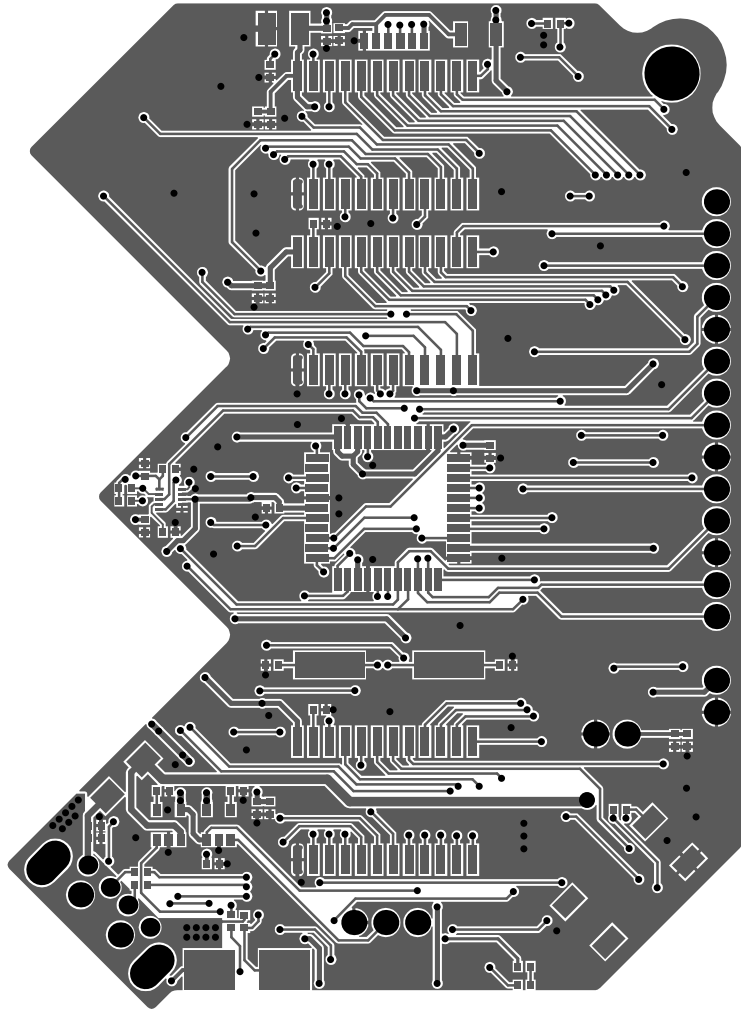
Creation Date: 11.6.201322:24:42

Print Date: 11-Jun-1310:24:44 PM

Footprint	Comment	LibRef	Designator	Description	Order code	Quantity
0402C	1uF / 6.3V	Cap	C1, C2, C3, C7, C16, C19, C20	Capacitor, multilayer ceramic; 16V(or more) 10%(or less) X7R	Onecall, 1759375	7
0402C	100nF / 16V	Cap	C4, C5, C6, C8, C9, C11, C12, C13, C14, C15, C17, C18	Capacitor, multilayer ceramic; 16V(or more) 10%(or less) X7R	Onecall, 2070374	12
TANT_B	CapPol	CapPol	C10	Polarized capacitor	Onecall, 1672553	1
0402C	18pF / 16V	Cap	C21, C22	Capacitor, multilayer ceramic; 16V(or more) 10%(or less) X7R	Onecall, 1758947	2
0402C	470pF / 16V	Cap	C23	Capacitor, multilayer ceramic; 16V(or more) 10%(or less) X7R	Onecall, 2070387	1
0603LED	Green	LED	D0	Standard LED diode	Onecall, 1226372	1
LED RGB	RGB LED	LED RGB_3	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16	LED RGB, Common Anode		16
3.2x2.8 SMA	B340A	Diode Schottky	D17	Schottky diode	Onecall, 1843668	1
0402LED	Yellow	LED	D18	Standard LED diode	Onecall, 2001788	1
USB Plug - Type A	CON4	CON4	J1	4-Pin	Onecall, CN15423	1
S2B-XH-A	CON2	CON2	J2	2-Pin	Onecall, 1516289	1
0402R	2k	Res	R1, R2, R3	Resistor, thick film, metal; 5%(or less)	Onecall, 1358050	3
0402R	1k	Res	R4, R5	Resistor, thick film, metal; 5%(or less)	Onecall, 1358043	2
1206R	47R	Res	R6	Resistor, thick film, metal; 5%(or less)	Onecall, 9337423	1
0402R	10k	Res	R7, R8	Resistor, thick film, metal; 5%(or less)	Onecall, 1358069	2
0402R	100k	Res	R9	Resistor, thick film, metal; 5%(or less)	Onecall, 1358096	1
0603R	NTC 100k	Termistor	R10	Termistor	Onecall, 9528083	1
0402R	330R	Res	R11, R15	Resistor, thick film, metal; 5%(or less)	Onecall, 1358028	2
0402R	22R	Res	R12, R13	Resistor, thick film, metal; 5%(or less)	Onecall, 1357998	2
0402R	6k8	Res	R14	Resistor, thick film, metal; 5%(or less)	Onecall, 1358064	1
KSS341G	Push button	Switch	S1	Push button	Onecall, 1201408	1
PB 6x6	Push button	Switch2	S2	Four contact pad push button	Mouser, 693-1301.9318	1
SWITCH 1K2	Switch 3-pol	Switch4	S3	Switch 3-pol	Onecall, 1608081	1
SOIC-24	TLC5925	TLC5925	U1, U2, U3	LOW-POWER 16-CHANNEL CONSTANT-CURRENT LED SINK DRIVER	Onecall, 1858096	3
TFBS4711Q-Side	TFBS4711	TFBS4711	U4	Serial Infrared Transceiver SIR, 115. 2 kbit/s, 2.4 V to 5.5 V Operatio	Mouser, 782-TFBS4711-TR1	1
DFN-10 2mm X 2mm	MMA8653FC	MMA8653FC	U5	Xtrinsic MMA8653FC 3-Axis, 10-bit Digital Accelerometer	Mouser, 841-MMA8653FCR1	1
TQFP-44	ATmega32U4-AU	ATmega32U4-AU	U6	8-bit AVR Microcontroller, 2.7-5.5V, 16MHz, 32KB Flash, 1KB EEPROM, 2.5KB SRAM, USB Co	Mouser, 556-ATMEGA32U4-AU	1
SOT-23-5	MCP73831T-2ATI	MCP73831T-2ATI	U7	44-pin TQFP, Industrial Grade -40°C to 85°C, Ext Osc	Onecall, 1834890	1
SOT-23-5	MIC5219	MIC5219	U8	Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5		
XTAL-11X4	8 MHz	XTAL	Y1	SOT-23, Industrial Temperature, Tape and Reel	Onecall, 2219097	1
				500mA-Peak Output LDO Regulator	Onecall, 1842346	1
				Crystal Oscillator		71

Approved	Notes





centre for pervasive
and sensor systems

UCL

NTC

D9

D8

D7

D6

D5

D4

D3

D2

D1

D15

D16

D0

OFF / ON

RST

D10

D11

D12

D13

D14

BUTTON

