

Comment	Designator	Footprint	LCSC Part No	Manuf. Part No	Comment
USB micro connector	CON1, CON2		C719023	ZX62D-B-5P8(30)	
tactile switch	SW1,SW2		C445493	K2-1102DP-L3SW-04	
on/off switch	SW3		C2887259	SS12D10G4 071	
100nF	C9,C12,C13,C15,C16,C17,C19,C20	0603	C66501	CC0603KRX7R9BB104	
22uF	C1,C2,C3,C4,C5,C6,C7,C8,C10,C11,C18	1206	C5672	CL31A226KPHNNNE	
10uF	C14	0603	C19702	CL10A106K8NNNC	
DC-DC 3.3V 1.2A	REG1	DFN-8-EP(2x2)	C485809	TPS62082DSGR	
2.6A 1uH ±20% 4.2A	L1	0806	C2913752	BDHH002016101R0MDB	datasheet of REG1 recommends XFL3012-102MEB, but that is not available in JLCPCB library
MOSFET	Q2,Q3,Q4	SOT-23	C400505	BSS138	
3K92 1%	R8	0603	C170585	WR06X3921FTL	
680R 1%	R11, R16	0603	C23228	0603WAF6800T5E	
430R 1%	R14	0603	C23170	0603WAF4300T5E	
1K 1%	R1,R5,R6,R9	0603	C21190	0603WAF1001T5E	
220R 1%	R3	0603	C22962	0603WAF2200T5E	
1.5K 1%	R10	0603	C22843	0603WAF1501T5E	
3K 1%	R12	0603	C4211	0603WAF3001T5E	
100K 1%	R23	0603	C25803	0603WAF1003T5E	
100R	R2,R19,R22	0603	C22775	0603WAF1000T5E	
300R	R4	0603	C23025	0603WAF3000T5E	
3.3K 1%	R20,R27	0603	C22978	0603WAF3301T5E	
180k	R13	0603	C22827	0603WAF1803T5E	
1K54	R26	0603	C100784	CR0603FA1541G	
10K	R7	0603	C25804	0603WAF1002T5E	
Shotky diode	D5, D8	SOT-23	C37704	BAT54C,215	
2.5V Ref	U2	SOT-23-3	C411753	TL431A PJSEMI	warning: original TI part has diferent pinout!
comparator	U1	SOT-25-5	C151034	AP331AWG-7	
BergStak 100pos Plug height 4.7 mm	JX1,JX2		C2764776	61083-101400LF	
level shifter	U3,U4	TSSOP-20	C53406	TXB0108PWR	
4K87	R25	0603	C2097544	MCT06030C4871FP500	for green 5V indicator LED
PL LED yellow	D1,D2	0805	C2296	17-21SUYC/TR8	
150R 1%	R17,R18	0603	C22808	0603WAF1500T5E	for yellow 3.3V indicator LED
±0.5ppm 50MHz oscillator	X1		C2920832	NT0503DH3I507BN50	
Interface Chip USB/UART	U5	SOP-16	C14267	CH340G	the same as used in https://www.sparkfun.com/products/14050
AND gate	U6	X1-DFN1010-6	C150443	74LVC1G08FW5-7	
12MHz 15pF crystal	Y1	SMD2520-4P	C2149206	2TJ412000UYGBC	
22pF for crystal	C21,C22	0402	C881987	C0402C0G220J250NTB	
LED green	D3,D4,D6	0603	C2833058	BZ-C0603-G3-F1	power indicators, RX_to_FPGA
133R for green LED RX	R15	0402	C4326496	CRCW0402133RFKED	
LED yellow for TX_from_FPGA	D7	0603	C5151485	A-SP192Y3C-A01-4T	
154R for yellow LED	R24	0603	C365385	ETCR0603F154RK9	

Following connectors are not part of BOM, i.e. not part of JLCPCB Assembly (they are intended for DIY hand soldering):

Comment	Designator		Manuf. Part No
38 pin header	J4		SSW-119-01-F-D
52 pin header	J3		SSQ-126-03-G-D
2 pin header, 6 mm	JP1		61300211121
PMOD receptacle right angle	PMODH1,PMODH2,PMODH3		SSQ-106-03-T-D-RA
PMOD receptacle straight	PMODV1,PMODV2,PMODV3		Farnell SSQ-106-01-G-D
Power connector 8 pin, 2 rows	J5,J6		Farnell SSQ-104-02-G-D
GND header for probes, 4 pin, 1 row	J2, J7		Farnell TSW-104-14-L-S