

Concurrency Board (R2) - Bill of Materials

Item #	Quantity	Reference	Description	Part	Manufacturer	Digikey	Mouser	Farnell	Sparkfun
1	1	CON1	Mini-USB Connector	UX60-MB-5ST	Hirose	H2959CT-ND	798-UX60-MB-5ST	N/A	N/A
2	4	CON2, CON3, CON6, CON7	8 Pos. Female Header	various	various	S4108-ND	517-929850-01-08-RA	1668302	N/A
3	1	CON5, CON8	6 Pos. Female Header	various	various	S7039-ND	517-929850-01-06-RA	1668297	N/A
4	1	CON4	6 (2x3) Pos. ISP Header	various	various	WM26806-ND	571-5-146250-3	1022231	N/A
5	1	CON10*	6 Pos. Male Header (FTDI)	various	various	N/A	N/A	N/A	PRT-09015
6	1	CON9	JST Battery Connector	S2B-PH-SM4-TB (LF) (SN)	JST	455-1749-1-ND	N/A	9492615	PRT-08612
7	9	C1, C2, C3, C4, C5, C6, C10, C11, C12	.1uF (100nF) Capacitor	various	various	399-1249-1-ND	80-C0805C104K3R	1362552	N/A
8	3	C7, C8, C9	47uF Tantalum Capacitor	293D476X9016C2TE3	Vishay/Sprague	718-1089-1-ND	74-293D476X9016C2TE3	1754192	N/A
9	2	D3, D4	Schottky Diode	MBRA140T3G	ON Semi	MBRA140T3GOSCT-ND	863-MBRA140T3G	9555986	N/A
10	1	F1	PTC Fuse (Ih=.5A, It=1A)	MF-USMF050-2	Bourns	MF-USMF050-2CT-ND	652-MF-USMF050-2	1294885	N/A
11	1	L1	22uH Power Inductor	VLCF5020T-220MR75-1	TDK	445-3211-1-ND	810-VLCF52T220MR751	1670099	N/A
12	1	Q1	P-Channel Mosfet	NDT2955	Fairchild	NDT2955CT-ND	512-NDT2955	9846271	N/A
13	9	R1, R2, R4, R5, R6, R7, R8, R9, R10	1K Resistor	various	various	RHM1.00KFCT-ND	71-CRCW0805-1.0K	1653281	N/A
14	3	R3, R11, R12	10K Resistor	various	various	RHM10.0KFCT-ND	71-CRCW0805-10K	1653284	N/A
15	1	SW1	SPNO Push Button	B3FS-1012	Omron	SW1082-ND	653-B3FS-1012	1181017	N/A
16	1	SW2	DPDT Slide Switch	JS202011SCQN	C&K Components	401-2002-1-ND	611-JS202011SCQN	1567945	N/A
17	1	U1	USB UART IC	FT232RL	FTDI	768-1007-1-ND	895-FT232RL	1146032	COM-00650
18	1	U2	AVR Microcontroller	ATMEGA328P-PU	Atmel	ATMEGA328P-PU-ND	556-ATMEGA328P-PU	1715487	COM-09061
19	1	U2/Socket	IC Socket (28 DIP)	4828-3004-CP	3M	3M5480-ND	517-4828-3004-CP	1182590	N/A
20	1	U3	Step-Up Converter	NCP1400ASN50T1G	ON Semi	NCP1400ASN50T1GOSCT-ND	863-NCP1400ASN50T1G	1460673	N/A
21	1	U4	LDO Regulator	LD1117S50TR	ST	497-6447-1-ND	511-LD1117S50	1467781	N/A
22	1	U5	Op-Amp	LM358D	TI	296-1014-5-ND	595-LM358D	1648685	N/A
23	1	Y1	16 MHz Resonator	various	various	X908-ND	520-ZTT1600MX	1448129	N/A
24	7	D1, D2, D5, D6, D7, D8, D9	Yellow LED	various	various	475-2556-1-ND	743-HT-170UYG	1716767	N/A
			Red LED	various	various	475-1416-1-ND	743-HT-170USD	1716768	N/A
			Green LED	various	various	475-1407-1-ND	743-HT-170NG	1716766	N/A
			Blue LED	various	various	516-1436-1-ND	743-HT-170NB	1716765	N/A
			White LED	various	various	160-1737-1-ND	743-HT-170TW	1716764	N/A
25	6	J1, J2, J3, J4, J5, J6	Solder Jumper						

Comments/Questions: omer@concurrency.cc

Notes:

- CON10 is optional (4UCON part number: 11029)