

## S-100 Raspberry Pi Zero CPU Board v2.3

8/18/2022

I have?	I Need?	Reference #	Value	BOM_Qty	OrderQty	Part_No	Each	Source	Footprint	Info
		C2	47 pF, 100 Volt, Monolithic Capacitor, 5% NPO	1	1	332567	\$ 0.39	Jameco	C2	
		C6	330pF, 50Volt, Monolithic Ceramic, Radial, +20% Z5U	1	10	2080340	\$ 0.12	Jameco	C2	order qty = 10+
		C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C40, C42, C46, C73, C74, C75	0.1 uF, 50 Volt, Monolithic, X7R, Radial, ±10%	37	37	544921	\$ 0.19	Jameco	C2	order qty = 10+
		C3, C23, C41, C43, C44, C57	10 uF, 25 Volt, 10%, Radial Tantalum	6	6	94078	\$ 0.65	Jameco	C1V5	
		C4	22 uF, 16 Volt, 10%, Radial Tantalum	1	1	94094	\$ 0.59	Jameco	C1V5	
		C1	33 uF, 25 Volt, 10%, Radial Tantalum	1	1	33785	\$ 1.49	Jameco	C1V5	
		C5	47 uF, 15 Volt, 10%, Radial Tantalum	1	1	94123	\$ 0.99	Jameco	C1V5	
		D1, D9	Diode 1N4148, 100 Volt, 200mA, 20mA(I <sub>f</sub> ), Small Signal, DO-35	2	10	151247	\$ 0.07	Jameco	D3	order qty = 10+
		D2	LED, Super Bright Blue, Diffused, 5mm T-1 3/4, 470nm, 350mcd	1	1	2234071	\$ 0.69	Jameco	LEDV	
		D3, D4	LED, Green, 30mcd, 565nm, T-1 3/4		10	34761	\$ 0.15	Jameco	LEDV	order qty = 10+
		D5, D6, D7	LED, Red Diffused, 5mm (T-1 3/4), 643nm, 75mcd, 36VA		10	333973	\$ 0.12	Jameco	LEDV	order qty = 10+
		D8	LED, Yellow Diffused, T-1 3/4, 55mcd 585nm	1	10	2193985	\$ 0.10	Jameco	LEDV	order qty = 10+
		JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8	Jumper, 2 Position, Unshrouded Header, 2.54mm, Solder, Straight	8		160882	\$ 1.19	Jameco	SIL-2	buy 40 Pin strips, cut to size
		K1	Jumper, 3 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		160882	\$ 1.19	Jameco	SIL-3	buy 40 Pin strips, cut to size
		P7, P14, P15, P16	Jumper, 5 Position, Unshrouded Header, 2.54mm, Solder, Straight	4		160882	\$ 1.19	Jameco	SIL-5	buy 40 Pin strips, cut to size
		P2	Jumper, 3x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 1.49	Jameco	pin_array_3x2	Buy 20x2pins and cut down
		P4	Jumper, 5x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 1.49	Jameco	pin_array_5x2	Buy 20x2pins and cut down
		P5	Jumper, 8x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 1.49	Jameco	pin_array_8x2	Buy 20x2pins and cut down
		P3	Jumper, 20x2 Position, Unshrouded Header 2.54mm Solder Straight	1	1	53532	\$ 1.49	Jameco	pin_array_20x2	
		R6, R7, R8, R9	10 Ohm 5% 1/4W	4	10	690380	\$ 0.06	Jameco	R3	multiples of 10
		R1	150 Ohm 5% 1/4W	1	10	690662	\$ 0.06	Jameco	R3	multiples of 10
		R5	1K Ohm 5% 1/4W	1	10	690865	\$ 0.06	Jameco	R3	multiples of 10
		R2, R3, R4	4.7K Ohm 5% 1/4W	3	10	691024	\$ 0.06	Jameco	R3	multiples of 10
		RR1	330 Ohm, SIP 10 pin, 9 Bussed Resistors, 125 mWatt, 2%	1	1	97851	\$ 0.89	Jameco	r_pack9	

	RR2, RR4	1K Ohm SIP 6 pin, 5 Bussed Resistors, 125 mWatt, 2%	2	2	652-4606M-1LF-1K	\$ 0.23	Mouser	r_pack5
	RR3	1K Ohm SIP 10 pin, 9 Bussed Resistors, 125 mWatt, 2%	1	1	858-L101S102LF	\$ 0.45	Mouser	r_pack9
	P13	Oscillator, 2.000 MHz, Full Size, DIP-14 (4-Pins)	1		27924	\$ 3.49	Jameco	14dip300
	P8	Oscillator, 10.000 MHz, Full Size, DIP-14 (4-Pins)	1		27887	\$ 2.49	Jameco	14dip300
	Q1	2N3904, NPN, TO-92, General Purpose	1	1	178597	\$ 0.19	Jameco	TO92-INVERT
	U7, U10	74LS00 PDIP-14	2		74LS00	\$ 0.39	anchor-electronics.com	14dip300
	U2, U22, U23	74LS04 PDIP-14	3		74LS04	\$ 0.48	anchor-electronics.com	14dip300
	U6	74LS05 PDIP-14	1		74LS05	\$ 0.28	anchor-electronics.com	14dip300
	U3	74LS07N PDIP-14	1		74LS07	\$ 0.60	anchor-electronics.com	14dip300
	U5	74LS08 PDIP-14	1		74LS08	\$ 0.28	anchor-electronics.com	14dip300
	U9	74LS11 PDIP-14	1		74LS11	\$ 0.25	anchor-electronics.com	14dip300
	U12	74LS30 PDIP-14	1		74LS30	\$ 0.28	anchor-electronics.com	14dip300
	U11	74LS32 PDIP-14	1		74LS32	\$ 0.32	anchor-electronics.com	14dip300
	U8, U13, U14, U34	74LS74 PDIP-14	4		74LS74	\$ 0.35	anchor-electronics.com	14dip300
	U21, U38	74LS123 PDIP-16	2		74LS123	\$ 0.46	anchor-electronics.com	16dip300
	U32	74LS138 PDIP-16	1		74LS138	\$ 0.69	anchor-electronics.com	16dip300
	U31	74LS148 PDIP-16	1		74LS148	\$ 0.98	anchor-electronics.com	16dip300
	U17	74LS367 PDIP-16	1		74LS367	\$ 0.46	anchor-electronics.com	16dip300
	U20, U24, U25, U26, U27, U29, U30, U37	74LS373 PDIP-20	8		74LS373	\$ 0.52	anchor-electronics.com	20dip300
	U4 U15 U16 U18 U19	74LVC245A, Bus Transceivers, Tri-State Octal Bus, Designed for 1.65-V to 3.6-V VCC operation	5	5	595-SN74LVC245A N	\$ 0.98	Mouser	20dip300
	U33	74LVC373 Octal Transparent D-Type Latches With 3-State Outputs, designed for 1.65-V to 3.6-V VCC operation	1	1	595-SN74LVC373A N	\$ 0.89	Mouser	20dip300
	(P7)	D24V25F5 Pololu 5V, 2.5A Step-Down Voltage Regulator	1	1	D24V25F5	\$ 16.95	Amazon.com	SIL-5
	(P14) (ALTERNATE for P7)	D24V22F5 Pololu 5V 2.5A Step-Down Voltage Regulator	1		2858	\$ 27.95	Pololu.com	SIL-5
	U1) (ALTERNATE for P7)	L7805ACV 5V 1A Precision (2%) Positive Voltage Regulator, TO-220	1		924570	\$ 0.59	Jameco	TO-220-3
	U1) (ALTERNATE for P7)	Heat Sink, TO-220, 1.2"L x 1"W x 0.5"H (for L7805CV)	1		129242	\$ 0.75	Jameco	TO-220

	U1) (ALTERNATE for P7)	Screw, #4-40 x 3/8" Phillips Pan Head Machine Screw	1		2094397	\$ 0.06	Jameco		order qty = 10+
	U1) (ALTERNATE for P7)	Hex Nut 4-40 Thread 0.183" Hex x 0.0625" Thick	1		2288111	\$ 0.06	Jameco		order qty = 10+
	(P16)	D24V25F3 Pololu 3.3V 2.5A Step-Down Voltage Regulator	1	1	2849	\$ 27.95	Pololu.com	SIL-5	
	(P15) (ALTERNATE for P16)	D24V22F3 Pololu 3.3V 2.5A Step-Down Voltage Regulator	1		2857	\$ 27.95	Pololu.com	SIL-5	
	(U28) (ALTERNATE for P16)	LM3940IT-3.3, 1A Low Dropout Regulator for 5V to 3.3V Conversion, TO-220	1		LM3940IT-3.3/NOPB-ND	\$ 2.00	Digikey	TO-220-3	
	DIP14S (P8)	DIP Socket, Machine Tooled, 4 Pin, Full-Can Crystal Oscillator Socket	1	1	133006	\$ 0.69	Jameco	14dip300	
	DIP14	DIP socket, 14 Pins	15	10	112214	\$ 0.19	Jameco	14dip300	
	DIP16	DIP socket, 16 Pins	5	10	112222	\$ 0.18	Jameco	16dip300	
	DIP20	DIP socket, 20 Pins	14	10	112248	\$ 0.19	Jameco	20dip300	
	Card Ejector	Circuit Board Card Ejector, 0.062 inch, Nylon, White, BIVAR PN# CP-06 WE	2	2	749-CP-06-WE	\$ 0.52	Mouser		