

S-100 RAM + ROM II Board V1.4

4/15/2023

I have?	I Need?	Ref	Value	BOM_Qty	OrderQty	part_no	Each	Src	Footprint	Info
		C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C33, C34, C36, C37, C38, C39, C40, C41, C42, C43	0.1 uF, 50 Volt, Monolithic Z5U, Radial	34	34	767834	\$ 0.19	Jameco	C2	order qty = 10+
		C2, C3, C4, C5, C6, C31, C32	10uF, 25V, 20%, Aluminum Electrolytic, Radial Capacitor	7	10	94212	\$ 0.16	Jameco	C1V5	order qty = 10+
		C1	33 uF, 25 Volt, 10%, Radial Tantalum	1	1	33785	\$ 1.49	Jameco	C1V5	
		D1	LED, Super Bright Blue, Diffused, 5mm T-1 3/4, 470nm, 350mcd	1		2234071	\$ 0.25	Jameco	LEDV	
		D2, D3, D4, D5	LED, Red Diffused, 5mm (T-1 3/4), 643nm, 75mcd	4	10	333973	\$ 0.12	Jameco	LEDV	order qty = 10+
		D6	LED, Green, Diffused, 5mm (T-1 3/4), 565nm, 30mcd	1	10	34761	\$ 0.15	Jameco	LEDV	order qty = 10+
		D10	LED, Yellow Diffused, T-1 3/4, 585nm, 55mcd	1	10	2193985	\$ 0.08	Jameco	LEDV	order qty = 10+
		JP1, JP2, JP3, JP4, JP5, JP8, P8	Jumper, 2 Position, Unshrouded Header 2.54mm, Solder, Straight	7		68339	\$ 0.99	Jameco	SIL-2	order 36 Pin strips
		K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11	Jumper, 3 Position, Unshrouded Header 2.54mm, Solder, Straight	11		68339	\$ 0.99	Jameco	SIL-3	order 36 Pin strips
		P4, P5, P6, P7, P9	Jumper, 5 Position, Unshrouded Header 2.54mm, Solder, Straight	5		68339	\$ 0.99	Jameco	SIL-5	order 36 Pin strips
		P10, P11	Jumper, 5x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	2		53532	\$ 1.49	Jameco	pin_array_5x2	Buy 20x2pins and cut down
		P2, P3	Conn, Header, Female Socket, 40 Position (20 x 2), 2.54mm x 2.54mm, Solder, Straight	2	2	S7123-ND	\$ 2.38	Digikey.com	pin_array_20x2	
		R1	470 Ohm 5% 1/4W	1	10	690785	\$ 0.06	Jameco	R3	order qty = 10+
		R2, R3	1K Ohm 5% 1/4W	2	10	690865	\$ 0.06	Jameco	R3	order qty = 10+
		RR3	470 Ohm SIP 10 pin, 9 Bussed Resistors	1	1	97869	\$ 1.95	Jameco	r_pack9	
		RR4	1K Ohm SIP 10 pin, 9 Bussed Resistors	1	1	97877	\$ 1.49	Jameco	r_pack9	
		RR2	4.7K Ohm SIP 10 pin, 9 Bussed Resistors	1	1	24660	\$ 1.49	Jameco	r_pack9	
		SW1, SW2, SW3	DIP Switch, 8 Position, Raised Slide, SPST, 2.5mm Pitch	3	3	696984	\$ 1.09	Jameco	16dip300	
		U15	74F02	1	1	74F02	\$ 0.38	anchor-electronics.com	14dip300	
		U14, U17, U20	74F08	3	3	74F08	\$ 0.36	anchor-electronics.com	14dip300	
		U12, U13, U21	74F11	3	3	74F11	\$ 0.28	anchor-electronics.com	14dip300	

	U30	74F27	1	1	74F27	\$ 0.36	anchor-electronics.com	14dip300	
	U10	74LS01	1	1	74LS01	\$ 0.25	anchor-electronics.com	14dip300	
	U18	74LS04	1	1	74LS04	\$ 0.48	anchor-electronics.com	14dip300	
	U35	74LS27	1	1	74LS27	\$ 0.28	anchor-electronics.com	14dip300	
	U8	74LS32	1	1	74LS32	\$ 0.32	anchor-electronics.com	14dip300	
	U34	74LS74	1	1	74LS74	\$ 0.35	anchor-electronics.com	14dip300	
	U7, U16, U29	74LS123	3	1	74LS123	\$ 0.46	anchor-electronics.com	16dip300	
	U4	74LS139	1	1	74LS139	\$ 0.46	anchor-electronics.com	16dip300	
	U27	74LS165	1	1	74LS165	\$ 0.79	anchor-electronics.com	16dip300	
	U9, U28	74LS240	2	2	74LS240	\$ 0.64	anchor-electronics.com	20dip300	
	U2, U23, U24, U33	74LS244	4	4	74LS244	\$ 0.79	anchor-electronics.com	20dip300	
	U19, U22, U31	74LS245	3	3	74LS245	\$ 0.54	anchor-electronics.com	20dip300	
	IC1, IC2, IC3	74LS682N	3	3	74LS682N	\$ 2.30	anchor-electronics.com	20dip300	
	P12	28C64A-15, EEPROM, 8K x 8, CMOS	1	1	74827	\$ 9.95	Jameco	28dip600	
	P12 (ALTERNATE for P12)	27C010-12, EPROM, 128K x 8, 120ns, CMOS, UV Erasable	1		74624	\$ 5.95	Jameco	32dip600	
	U11, U26	AS6C4008, SRAM 4M, 2.7-5.5V, 55ns, 512K x 8 Asynch SRAM, PDIP-32	2	2	913-AS6C4008-55PCN	\$ 6.38	Mouser	32dip600	
	U5, U6 (ALTERNATE for U11, U26)	AS6C6416-55TIN, SRAM, 64M Bits (8MX8) (4Mx16), Low Power CMOS, 2.7V - 3.6V only, 55ns, 48-TSOP I	2		913-AS6C6416-55TIN	\$ 30.78	Mouser	TSOP-48	
	U5, U6 (ALTERNATE for U11, U26)	AS6C6416-55TIN, SRAM, 64M Bits (8MX8) (4Mx16), Low Power CMOS, 2.7V - 3.6V only, 55ns, 48-TSOP I	2		1450-1464-ND	\$ 28.83	Digikey.com	TSOP-48	
	P1 (Mezzanine RAM mini board (V7.0))	Jumper, 20x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1	1	53532	\$ 1.49	Jameco	pin_array_20x2	2X20 Pin Mezzanine RAM mini board (V7.0)
	A,B,C,D (Mezzanine RAM mini board (V7.0))	CY62167ELL-45ZXIT, SRAM 16Mb, 2M x 8, 1M x16, Low Power SRAM, TSOP-48	4		727-CY62167ELL45ZXIT	\$ 17.36	Mouser	TSOP-48	2X20 Pin Mezzanine RAM mini board (V7.0)

	A,B,C,D (Mezzanine RAM mini board (V7.0))	CY62167DV30LL-55ZXI, SRAM 16Mb, 3V, 55ns, 2M x 8, 1M x 16, LP SRAM	4		727-2167DV30LL-55ZXI	\$ 25.88	Mouser	TSOP-48	2X20 Pin Mezzanine RAM mini board (V7.0)
	A,B,C,D (Mezzanine RAM mini board (V7.0))	AS6C3216A-55TIN, SRAM, 32M, 3V, 55ns, 4M x 8, 2M x 16, Async SRAM	4		913-AS6C3216A-55TIN	\$ 24.80	Mouser	TSOP-48	2X20 Pin Mezzanine RAM mini board (V7.0)
	A,B,C,D (Mezzanine RAM mini board (V7.0))	AS6C6416-55TIN, SRAM 64M, 3V, 55ns, Low Power, 8M x 8, 4M x 16, 48-TSOP I	4		913-AS6C6416-55TIN	\$ 30.78	Mouser	TSOP-48	2X20 Pin Mezzanine RAM mini board (V7.0)
	A,B,C,D (Mezzanine RAM mini board (V7.0))	AS6C6416-55TIN, SRAM, 64M Bits (8MX8) (4Mx16), Low Power CMOS, 2.7V - 3.6V only, 55ns, 48-TSOP I	4		1450-1464-ND	\$ 28.83	Digikey.com	TSOP-48	2X20 Pin Mezzanine RAM mini board (V7.0)
	U1	L7805CV, +5 Volt, Voltage Regulators, 1.5 Amp, TO-220-3	1	1	924633	\$ 0.55	Jameco	TO-220	
	(P7) (ALTERNATE for U1)	D24V25F5 Pololu 5V, 2.5A Step-Down Voltage Regulator	1	1	2850	\$ 24.95	Pololu.com	SIL-5	
	(P14) (ALTERNATE for P7)	D24V22F5 Pololu 5V 2.5A Step-Down Voltage Regulator	1		2858	\$ 21.95	Pololu.com	SIL-5	
	U3	LM3940IT-3.3/NOPB, +3.3Volts, LDO Voltage Regulators, 1A, TO-220-3	1		926-LM3940IT-3.3NOPB	\$ 1.99	Mouser	TO-220	
	(P16) (ALTERNATE for U3)	D24V25F3 Pololu 3.3V 2.5A Step-Down Voltage Regulator	1	1	2849	\$ 24.95	Pololu.com	SIL-5	
	(P15) (ALTERNATE for P16)	D24V22F3 Pololu 3.3V 2.5A Step-Down Voltage Regulator	1		2857	\$ 21.95	Pololu.com	SIL-5	
	DIP14	DIP socket, 14 Pins	13	13	112214	\$ 0.19	Jameco	14dip300	order qty = 10+
	DIP16	DIP socket, 16 Pins	5	10	112222	\$ 0.18	Jameco	16dip300	order qty = 10+
	DIP20	DIP socket, 20 Pins	12	12	112248	\$ 0.19	Jameco	20dip300	order qty = 10+
	DIP32 (0.600) (P12, U5, U6)	DIP socket 32 (0.600" W)	3	3	689979	\$ 0.35	Jameco	32dip600	
	Card Ejector	Circuit Board Card Ejector, 0.062 inch, Nylon, Natural, BIVAR PN# CP-06 NT	2	2	749-CP-06NT	\$ 0.52	Mouser		