S-100 AM9511 Math Board Ver 1.0 6/20/2022

I have?	I Need?	Reference #	Value	BOM_Qty	OrderQty	Part_No	Each		Source	Footprint	Info
		C1, C2, C4, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C19, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49,	0.1 uF, 50 Volt, Monolithic, X7R,								
		C51	Radial, ±10%	44		544921	\$	0.19	Jameco	C2	
		C5, C6, C18, C20	10 uF, 25 Volt, 10%, Radial Tantalum	1		94078	\$	0.65	Jameco	C1V5	
		C3	33 uF, 25 Volt, 10%, Radial Tantalum	1		33785	\$	1.95	Jameco	C1V5	
									Jameco		
		D1	LED, Blue, 466nm, 50mcd, T1	1		333383	\$	0.49	Jameco	LEDV	
		D3, D4, D5	LED, Super Red, 660 nm, 70mcd, 60 Degree Viewing Angle, T-1	4		2334111	\$	0.12	Jameco	LEDV	min order 10+
		AFF1, AFF2, AFF3, AFF4, AFF5, AFF6, AFF7, AFF8, AFF9, AFF10, AFF11, AFF12	LED Module, 7-Segment, HDSP- 331A, 1-Digit, Red, 660nm, Common Anode, 14-Pin DIP	12		2320575	\$	0.79	Jameco	14dip300	
		P3, P4, P26	Jumper, 2 Position, Unshrouded Header, 2.54mm, Solder, Straight	3		68339	\$	0.99	Jameco	SIL-2	order 36 Pin strip
		K1, K2, K4	Jumper, 3 Position, Unshrouded Header, 2.54mm, Solder, Straight	3		68339	\$	0.99	Jameco	SIL-3	order 36 Pin strip
		P19, P20, P25	Jumper, 5 Position, Unshrouded Header, 2.54mm, Solder, Straight	3		68339	\$	0.99	Jameco	SIL-5	order 36 Pin strip
		P27	Jumper, 10 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		68339	\$	0.99	Jameco	SIL-10	order 36 Pin strip
		P2	Jumper, 8x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		203861	\$	1.19	Jameco	pin_array_8X2	
		R3, R4, R9	1K Ohm 5% 1/4W	3		690865	\$	0.06	Jameco	R3	min order 10+
		R1, R2	10K Ohm 5% 1/4W	2		691104	\$	0.06	Jameco	R3	min order 10+
		RP1, RP2, RP3, RP4, RP5, RP6, RP7, RP8, RP9, RP10, RP11, RP12	470 Ohm, DIP 16 pin, 8 Isolated Resistors, 2.25 Watt, 2%	12		108581	\$	0.99	Jameco	16dip300	
		RR1	150 Ohm, SIP 6 pin, 5 Bussed Resistors, 125 mWatt, 2%	1		150 Ohm-SIP- 6PIN-Bussed			anchor- electronics.co m	r_pack5	
		RR4	1K Ohm, SIP 6 pin, 5 Bussed Resistors, 125 mWatt, 2%	1		2330103	\$	0.89	Jameco	r_pack5	
		SW2	Switch, Push Button, Tactile Switch, SPST-NO, Top Actuated, Through Hole, 50mA, 12VDC	1		2322535	\$	0.19	Jameco	sw_push_small	
		SW3, SW4	DIP Switch, 8-Pos, On-Off, SPST, Raised Rocker	2		2333167	\$	1.25	Jameco	16dip300	

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								anchor- electronics.co		
	U16	74LS00	4		74LS00	Φ.			14dip300	
	010	74L300	·		74LS00	\$	0.39	anchor-	14aip300	
								electronics.co		
	U5, U15, U20, U22	74LS04	4		741 004	Φ.	0.48		14dip300	
	03, 013, 020, 022	742304	4		74LS04	\$	0.48	anchor-	14aip300	
								electronics.co		
	U18	74LS07N	4		74LS07	\$	0.60		14dip300	
	0.10	7 1250711			741307	Ψ	0.00	anchor-	1401000	
								electronics.co		
	U3, U7	74LS08	2		74LS08	\$	0.28		14dip300	
	00, 0.	200				Ψ	0.20	anchor-	Т-тагрооб	
								electronics.co		
	U8	74LS21	1		74LS21	\$	0.28		14dip300	
						Ψ	0.20	anchor-	Tapooo	
								electronics.co		
	U4	74LS32	1		74LS32	\$	0.32		14dip300	
		74LS47 BCD to 7 Segment				Ė				
	U12, U25, U26, U27, U28, U32, U33,	Decoder/Driver, Open Collector								
	U35, U37, U38, U40, U41	Outputs (15V Max)	12		47790	\$	1.69	Jameco	16dip300	
								anchor-	'	
								electronics.co		
	U14	74LS74	1		74LS74	\$	0.35	m	14dip300	
								anchor-		
								electronics.co		
	U11	74LS123	1		74LS123	\$	0.46	m	16dip300	
								anchor-		
								electronics.co		
	U6	74LS138	1		74LS138	\$	0.69	m	16dip300	
								anchor-		
								electronics.co		
	U1, U2	74LS244	2		74LS244	\$	0.79		20dip300	
								anchor-		
								electronics.co		
	U9, U10	74F244	2		74F244	\$	0.65		20dip300	
								anchor-		
	U23, U24, U29, U30, U36, U39	741 8274	_		74LS374	_		electronics.co	00-1:000	
	023, 024, 029, 030, 036, 039	74LS374	6		/4L00/4	\$	0.52		20dip300	
								anchor-		
	IC1, U17	74LS682	•		74LS682	Φ.		electronics.co	20din 200	
	101, 017	NEC 82C55AC-2, CMOS	2		7410002	\$	2.30	1111	20dip300	
		Programmable Peripheral Interface, 5			82C55AC-2					
	U13	MHz, 40-Pin PDIP	1		221	\$	2.42	Utsource.net	40din600	Minimum: 2
		W. 12, TO I III I DII	'		'	Ψ	۷.4۷	Ctoodioe.net	Toulpood	iviii iii iiuiII. Z
		AM9511A-4DC, 8231A Arithmetic			AM9511A-					
	U19	Processing Unit (APU), 24-Pin DIP	1		4DC			eBay.com	24dip600	
						1			_ :0.000	
		+				<u> </u>		anchor-		
		Oscillator, 4.0 MHz, Full Size, DIP-14						electronics.co		
	P1	(4-Pins)	4		4.0000 MHz	<b>c</b>	2.95		14dip300	
	<u> </u>  '	(T-1 1115)	1		4.UUUU MHZ	\$	∠.95	111	14alp300	

(P3)	D24V25F5 Pololu 5V, 2.5A Step- Down Voltage Regulator	1	1	2850	\$ 11.95	Pololu.com	SIL-5	
(P2) (ALTERNATE for P3)	D24V22F5 Pololu 5V 2.5A Step-Down Voltage Regulator		1	2858	\$	Pololu.com	SIL-5	
U21	L7812CV, LM7812, 12V 1A Positive Voltage Regulator	1		889305	\$ 0.45	Jameco	TO-220-3	
DIP14S (P1)	DIP Socket, Machine Tooled, 4 Pin, Full-Can Crystal Oscillator Socket			133006	\$ 0.69	Jameco	14dip300	
DIP14	DIP socket, 14 Pins	4	10	112214	\$	Jameco	14dip300	min order 10-
DIP16	DIP socket, 16 Pins	1		112222	\$ 0.18	Jameco	16dip300	min order 10-
DIP20	DIP socket, 20 Pins	15	10	112248	\$ 0.19	Jameco	20dip300	min order 10-
DIP24 (.600")	DIP socket, 24 Pins (.600")	1	1	112264	\$ 0.27	Jameco	24dip600	
DIP40 (.600")	DIP socket, 40 Pins (.600")	1	1	112311	\$ 0.49	Jameco	40dip600	
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		