

I have?	I Need?	Reference #	Value	BOM_Qty	OrderQty	Part_No	Each	Source	Footprint	Info
		C4, C5, C6, C7, C8, C9, C10, C11, C13, C14, C16, C17, C18, C19, C21, C22, C26, C28, C29, C30, C31, C32, C35, C36, C38, C40, C46	0.1 uF, 50 Volt, Monolithic, X7R, Radial	27	27	544921	\$ 0.19	Jameco	C2	min order 10+
		C2, C3	10 uF, 25 Volt, 10%, Radial Tantalum	2	2	545641	\$ 0.69	Jameco	C1V5	
		C1	33 uF, 25 Volt, 10%, Radial Tantalum	1	1	33785	\$ 1.95	Jameco	C1V5	
		D1, D2, D3, D4, D5, D6, D7, D12	LED, Red Diffused, 643 nm, 65mcd, T-1	3	10	333851	\$ 0.12	Jameco	LEDV	min order 10+
		D8	LED, Uni-Color Yellow, 595nm, 450mcd, 2-Pin, T-1	1	10	206480	\$ 0.12	Jameco	LEDV	min order 10+
		D9	LED, Uni-Color Green, 567nm, 30mcd, 2-Pin, T-1	1	10	156930	\$ 0.15	Jameco	LEDV	min order 10+
		D10	LED, Blue, 466nm, 50mcd, T1	1	1	333383	\$ 0.49	Jameco	LEDV	
		AFF1, AFF2, AFF3, AFF4, AFF5	MAN71A Red, CA, RH Decimal, 0.300 Inch, DIP-14	5					14dip300	
		R1, R2, R4, R5	470 Ohm 5% 1/4W	4	10	690785	\$ 0.06	Jameco	R3	min order 10+
		R3, R6, R7, R8, R9, R10, R11	1k Ohm 5% 1/4W	7	10	690865	\$ 0.06	Jameco	R3	min order 10+
		RP1, RP2, RP3, RP4, RP5	330 Ohm DIP 16 pin, 8 Resistors, 2.25 Watt, Isolated, 2%	5	5	108572	\$ 0.89	Jameco	16dip300	
		RR3	680 Ohm SIP 10 pin, 9 Resistors, 125 mWatt, 2%	1	1	652-4610X-1LF-680	\$ 0.43	Mouser	r_pack9	
		RR1	1K Ohm SIP 10 pin, 9 Resistors, 125 mWatt, 2%	1	1	858-L101S102LF	\$ 0.47	Mouser	r_pack9	
		RR2	1K Ohm SIP 9 pin, 8 Resistors, 125 mWatt, 2%	1	1	652-4608X-AP1-102LF	\$ 0.23	Mouser	r_pack8	
		TEST_1, TEST_2	Test Pin, 1 Position, Unshrouded Header, Solder, Straight	2		160882	\$ 1.19	Jameco	SIL-1	order 40 Pin strips
		P24, P25	Jumper, 2 Position, Unshrouded Header, 2.54mm, Solder, Straight	2		160882	\$ 1.19	Jameco	SIL-2	order 40 Pin strips
		K1, K2, K3, K4	Jumper, 3 Position, Unshrouded Header, 2.54mm, Solder, Straight	4		160882	\$ 1.19	Jameco	SIL-3	order 40 Pin strips
		P4	Jumper, 5 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		160882	\$ 1.19	Jameco	SIL-5	order 40 Pin strips

	P2, P3, P21	Jumper, 5 Position, Unshrouded Header, 2.54mm, Solder, Straight	3		160882	\$ 1.19	Jameco	SIL-5	order 40 Pin strips
	P12	Jumper, 6 Position, Unshrouded Header 2.54mm Solder, Straight	1		160882	\$ 1.19	Jameco	SIL-6	order 40 Pin strips
	P11, P14	Jumper, 7 Position, Unshrouded Header, 2.54mm, Solder, Straight	2		160882	\$ 1.19	Jameco	SIL-7	order 40 Pin strips
	P17	Jumper, 8x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 1.49	Jameco	pin_array_8X2	Buy 20x2pins and cut down
	P1, P9, P10, P15	Jumper, 20x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	4		53532	\$ 1.49	Jameco	pin_array_20X2	Buy 20x2pins and cut down
	P5, P6	Header, 16x2 Position, Vertical Receptacle, Female, 0.079" (2.00mm), Through Hole, Gold	2		437-8338703810001101	\$ 3.49	Mouser	hdr_array_16X2	Buy 19x2 pins and cut down
	P7, P8	Receptacle, Female, 0.079" (2.00mm), Through Hole, Gold	2		8338703810001101	\$ 3.49	Mouser	hdr_array_27X2	Buy 19x2 pins and cut down
	SW1	DIP Switch, 8-Pos, On-Off, SPST, Raised Rocker	1	1	696917	\$ 1.49	Jameco	16dip300	
	SW2	Switch, Push Button, Tactile, SPST, Normally Off, Momentary (On), 15 Volt DC @ 20mA	1	1	149948	\$ 0.35	Jameco	sw_push_small	
	X1	Crystal Oscillator, 32.768KHZ, Tuning Fork, 12.5PF, case AT39	1	10	325244	\$ 0.49	Jameco	HC-18UV	min order 10+
	U20, U21	74LS00	2	2	46252	\$ 1.09	Jameco	14dip300	
	U1	74LS06	1	1	46359	\$ 0.89	Jameco	14dip300	
	U6	74LS08	1	1	46375	\$ 0.69	Jameco	14dip300	
	U11, U12	74LS645	2	2	47950	\$ 1.95	Jameco	20dip300	
	U2, U4, U7, U9, U10, U14, U15, U16	74LVC245AN	8	8	595-SN74LVC245AN	\$ 0.66	Mouser	20dip300	
	U3, U17, U18, U19, U22	74LVC373AN	5	5	595-SN74LVC373AN	\$ 0.85	Mouser	20dip300	
	U24	DS1305EN-T&R Real Time Clock, Serial, 3-Wire, SPI, TSSOP-20	1	1	700-DS1305ENT&R	\$ 6.49	Mouser	TSSOP-20	
	U13 (ALTERNATE for U24)	DS1305+ Real Time Clock, Serial, 3-Wire, SPI, DIP-16		1	700-DS1305	\$ 6.76	Mouser	16dip300	

	U5	628512LP-70, SRAM, Asynchronous Memory, 4Mb (512K x 8), Parallel, 70ns, 32-PDIP	1	1	157358	\$ 12.95	Jameco	DIP32	
	U26	8255AC-5, Programmable Peripheral Interface 40-Pin PDIP	1	1	291805	\$ 5.95	Jameco	40dip600	
	(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	\$ 17.95	Pololu.com	SIL-5	
	(P4)	D24V25F3 Pololu 3.3V 2.5A Step-Down Voltage Regulator	1	1	2849	\$ 11.95	Pololu.com	SIL-5	
	(P21) (ALTERNATE for P21)	D24V22F3 Pololu 3.3V, 2.6A Step-Down Voltage Regulator			1 2857	\$ 17.95	Pololu.com	SIL-5	
		FPGA Board, Core EP4CE10 FPGA NIOS II evaluation development board, Cyclone 4 EP4CE10F17C8N chip	1	1	6973	\$ 39.99	WaveShare.com		
		USB Blaster V2, ALTERA FPGA CPLD download cable programmer	1	1	5989	\$ 19.99	WaveShare.com		
	(P11, P12, P14)	USB-to-Serial Adapter, FT231X Breakout board, microUSB jack, 3.3V	1	1	BOB-13263	\$ 12.95	Sparkfun.com		
	(P11, P12, P14) (ALTERNATE)	CP2104 Friend - USB to Serial Converter			1 3309	\$ 5.95	Adafruit.com		
	DIP14	DIP socket, 14 Pins	9	10	112214	\$ 0.20	Jameco	14dip300	min order 10+
	DIP16	DIP socket, 16 Pins	1	10	112222	\$ 0.18	Jameco	16dip300	min order 10+
	DIP20	DIP socket, 20 Pins	15	15	112248	\$ 0.22	Jameco	20dip300	min order 10+
	DIP32 (.600")	DIP socket, 32 Pins (.600")	1	1	105381	\$ 1.25	Jameco	32dip600	
	DIP40 (.600")	DIP socket, 40 Pins (.600")	1	1	41111	\$ 0.42	Jameco	40dip600	
	Card Ejector	Circuit Board Card Ejector, 0.062 inch, Nylon, White, BIVAR PN# CP-06 WE	2	2	749-CP-06-WE	\$ 0.71	Mouser		