

I have?	I Need?	Reference #	Value	BOM_Qty	OrderQty	Part_No	Each	Source	Footprint	Info
		C18, C23	47 pF, 100 Volt, Monolithic Capacitor, 5% NPO	2	2	332567	\$ 0.39	Jameco	C2	
		C44	0.047 uF, 50 Volt, Monolithic Capacitor, 20%	1	1	57621	\$ 0.39	Jameco	C2	
		C1, C2, C4, C5, C6, C7, C9, C11, C12, C14, C15, C16, C17, C19, C20, C21, C22, C24, C25, C26, C27, C28, C30, C31, C37, C39, C40, C41, C43, C45, C52	0.1 uF, 50 Volt, Monolithic Ceramic, X7R, Radial	31	40	544921	\$ 0.19	Jameco	C2	multiples of 10
		C38	1 uF, 25 Volt 20%, Radial Aluminum Capacitor	1	1	330431	\$ 0.25	Jameco	C1V5	
		C3, C13	10 uF, 25 Volt, 10%, Radial Tantalum	2	2	545641	\$ 0.59	Jameco	C1V5	
		C8	22 uF, 16 Volt, 10%, Radial Aluminum	1	1	94094	\$ 0.65	Jameco	C1V5	
		C10	33 uF, 50 Volt 20%, Radial Aluminum Capacitor	1	1	33785	\$ 0.21	Jameco	C1V5	
		D1	LED, Blue Diffused, T-1 3/4, 350mcd 470nm	1	1	2234071	\$ 0.69	Jameco	LEDV	
		D6	LED, Yellow Diffused, T-1 3/4, 55mcd 585nm	1	1	2193985	\$ 0.25	Jameco	LEDV	
		D2, D3, D4, D5	LED, Green Non Diffused, T-1, 40mcd 569nm	4	4	697645	\$ 0.25	Jameco	LEDV	
		P3, P19, P20, P21, P23, P24	Test Pin, 1 Position, Unshrouded Header, Solder, Straight	6		160882	\$ 0.75	Jameco	SIL-1	buy 40 Pin strips, cut down to size
		JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9	Jumper, 2 Position, Unshrouded Header 2.54mm Solder Straight	9		160882	\$ 0.75	Jameco	SIL-2	buy 40 Pin strips, cut down to size
		K1, K2, K3, K4, K5, K6, K7, K8, K9	Jumper, 3 Position, Unshrouded Header 2.54mm Solder Straight	9		160882	\$ 0.75	Jameco	SIL-3	buy 40 Pin strips, cut down to size
		P25	Jumper, 4 Position, Unshrouded Header 2.54mm Solder Straight	1		160882	\$ 0.75	Jameco	SIL-4	buy 40 Pin strips, cut down to size
		P1, P4, P67	Jumper, 5 Position, Unshrouded Header 2.54mm Solder Straight	3		160882	\$ 0.75	Jameco	SIL-5	buy 40 Pin strips, cut down to size
		P29	Jumper, 10 Position, Unshrouded Header 2.54mm Solder Straight	1		160882	\$ 0.75	Jameco	SIL-10	buy 40 Pin strips, cut down to size
		P9	Jumper, 4x2 Position, Unshrouded Header 2.54mm Solder Straight	1		53532	\$ 0.85	Jameco	pin_array_4x2	Buy 20x2pins and cut down
		P11	Jumper, 10x2 Position, Unshrouded Header 2.54mm Solder Straight	1		53532	\$ 0.85	Jameco	pin_array_10x2	Buy 20x2pins and cut down
		P12	Jumper, 5x2 Position, Unshrouded Header 2.54mm Solder, Right Angle	1	1	203932	\$ 0.35	Jameco	pin_array_5x2	
		P10	Jumper, 8x2 Position, Unshrouded Header 2.54mm Solder, Right Angle	1	1	203967	\$ 0.55	Jameco	pin_array_8x2	
		P15	Header, 6 Position, Vertical Receptacle, Female, 1 Row, .100" 2.54mm L.S.	1		308567	\$ 0.89	Jameco	hdr_6	buy 20 Pin strips, cut down to size
		P14, P16, P17	Header, 7 Position, Vertical Receptacle, Female, 1 Row, .100" 2.54mm L.S.	3		308567	\$ 0.89	Jameco	hdr_7	buy 20 Pin strips, cut down to size
		P18	Header, 8 Position, Vertical Receptacle, Female, 1 Row, .100" 2.54mm L.S.	1		308567	\$ 0.89	Jameco	hdr_8	buy 20 Pin strips, cut down to size

	P5, P6	Header, 16x2 Position, Vertical Receptacle, Female, 0.079" (2.00mm) , Through Hole, Gold	2		1212-1786-ND	\$ 6.64	Digi-Key	hdr_array_16X2	Buy 50x2 pins (cut down to one each 27x2 and 16x2)
	P7, P8	Header, 27x2 Position, Vertical Receptacle, Female, 0.079" (2.00mm) , Through Hole, Gold	2		1212-1786-ND	\$ 6.64	Digi-Key	hdr_array_27X2	Buy 50x2 pins (cut down to one each 27x2 and 16x2)
	P2	Connector, Circular DIN, MINI DIN, 6 Position, Mouse/Keyboard	1			\$ 7.50	eBay seller: "ultra22"	MINIDIN-6	seller includes 3 pieces
	R1, R2, R3, R4	10 Ohm 5% 1/4W	4	10	690380	\$ 0.06	Jameco	R3	multiples of 10
	R11	100 Ohm 5% 1/4W	1	10	690620	\$ 0.06	Jameco	R3	multiples of 10
	R9, R21	150 Ohm 5% 1/4W	2	10	690662	\$ 0.06	Jameco	R3	multiples of 10
	R22, R23, R24	240 Ohm 5% 1/4W	3	10	690718	\$ 0.06	Jameco	R3	multiples of 10
	R16	300 Ohm 5% 1/4W	1	10	690734	\$ 0.06	Jameco	R3	multiples of 10
	R10	680 Ohm 5% 1/4W	1	10	690822	\$ 0.06	Jameco	R3	multiples of 10
	R8, R13	1K Ohm 5% 1/4W	2	10	690865	\$ 0.06	Jameco	R3	multiples of 10
	R5, R6, R7, R12, R19	4.7K Ohm 5% 1/4W	5	10	691024	\$ 0.06	Jameco	R3	multiples of 10
	R14, R15	20K Ohm 5% 1/4W	2	10	691171	\$ 0.06	Jameco	R3	multiples of 10
	R17, R18	22K Ohm 5% 1/4W	2	10	691180	\$ 0.06	Jameco	R3	multiples of 10
	R20	220K Ohm 5% 1/4W	1	10	691420	\$ 0.06	Jameco	R3	multiples of 10
	RR1, RR4, RR5	1K Ohm SIP 10 pin, 9 Resistors, 125 mWatt, 2%	3	3	652-4610M-1LF-1K	\$ 0.53	Mouser	r_pack9	
	RR2	1K Ohm SIP 6 pin, 5 Resistors, 125 mWatt, 2%	1	1	652-4606M-1LF-1K	\$ 0.23	Mouser	r_pack5	
	RR3	47K Ohm SIP 6 pin, 5 Resistors, 125 mWatt, 2%	1	1	652-4606X-1LF-47K	\$ 0.43	Mouser	r_pack5	
	SP1	Audio Buzzer, Piezo, 12VDC 7mA, 3VDC, 3.5KHz to 4.5KHz, Through Hole	1	1	138713	\$ 1.99	Jameco	buzzer_AL11P_modified	
	SW1	DIP Switch, 4-Position, On-Off, SPST, Raised Slide	1	1	696950	\$ 1.09	Jameco	SWDIP4	
	SW2	Switch, Push Button, Tactile, SPST, OFF-(ON), 15 VDC @ 20mA	1	1	149948	\$ 0.35	Jameco	sw_push_small	
	(P22, P26, P27, P28)	Coin Cell Battery Holder, CR2032, PC Mount, 0.787 inch (20mm) LS	1	1	355434	\$ 0.65	Jameco	CR2032H	
	(P22, P26, P27, P28)	Battery, Lithium, 3 Volts, CR2032	1	1	14162	\$ 0.79	Jameco	CR2032	
	X1	Crystal Oscillator, 32.768KHZ, Tuning Fork, 12.5 pF, case AT39	1	10	325244	\$ 0.19	Jameco	HC-18UV	multiples of 10
	Q1	2N3904, NPN, General Purpose, TO-92	1	1	38359	\$ 0.25	Jameco	TO92-INVERT	
	Q2	PN2907A, PNP, Silicon Transistor, 625mW Max, TO-92	1	1	178520	\$ 0.25	Jameco	TO-92	
	U12	80C286-16, or AMD N80L286-12, PLCC-68	1			\$ 7.50	eBay seller: "drskull9"	PLCC68	
	U16	D82288-10 INTEL 10MHz, Bus Controller, DIP-20	1			\$ 12.99	eBay seller: "xti1200"	20dip300	
	U6	74F244	1	1	44775	\$ 0.89	Jameco	20dip300	
	U2	74LS04	1	1	46316	\$ 0.69	Jameco	14dip300	
	U17	74LS05	1	1	46341	\$ 0.89	Jameco	14dip300	
	U15, U31	74LS07N	2	2	46367	\$ 0.95	Jameco	14dip300	
	U28	74LS125	1	1	46501	\$ 0.79	Jameco	14dip300	

	U13	74LS240	1	1	47141	\$ 0.79	Jameco	20dip300	
	U7, U8	74LS245	2	2	47212	\$ 0.89	Jameco	20dip300	
	U3, U4, U5	74LS373	3	3	47600	\$ 0.89	Jameco	20dip300	
	U10, U18, U21, U22, U23, U25, U26, U27, U29, U33, U34, U35, U37	74LVC245A, Bus Transceivers, Tri-State Octal Bus, Designed for 1.65-V to 3.6-V VCC operation	13	13	595-SN74LVC245 AN	\$ 0.47	Mouser	20dip300	buy 10+ minimum
	U11	82C59A-2 (82C59A-2), Prog Interrupt Controller, DIP-28, 10MHZ	1		52775	\$ 6.95	Jameco	28dip600	
	U14	DS1305+ Real Time Clock, Serial, 3-Wire, SPI	1	1	700-DS1305	\$ 6.07	Mouser	16dip300	
	U1, U9	AS6C4008-55PCN, HM628512, SRAM, Asynchronous Memory, 4Mb (512K x 8), Parallel, 55ns, PDIP-32	2	2	913-AS6C4008-55PCN	\$ 5.04	Mouser	32dip600	
	P5, P6, P7, P8	FPGA Board, Core EP4CE10 FPGA NIOS II evaluation development board, Cyclone 4 EP4CE10F17C8N chip	1	1	6973	\$ 33.99	WaveShare.com		
		USB Blaster V2, ALTERA FPGA CPLD, download cable, programmer	1	1	5989	\$ 19.99	WaveShare.com		
	P12	RS232 UART circuit, FT231X Breakout	1	1	BOB-13263	\$ 12.95	Sparkfun.com	SIL-6	
	P28, P29 (Alternate for P34, or P35)	MicroSD card breakout board, with CD74HC4050 Buffer IC, 3.3V Voltage Regulator, 8-Pin Header Connector	2		254	\$ 7.50	Adafruit.com	SIL-8	
	P67	D24V22F5 Pololu 5V 2.5A Step-Down Voltage Regulator	1		D24V22F5	\$ 8.95	Pololu.com	SIL-5	
	P1 (Alternate for P67)	D24V25F5 Pololu 5V 2.5A Step-Down Voltage Regulator	1		D24V25F5	\$ 10.95	Pololu.com	SIL-5	
	P4	D24V25F3 Pololu 3.3V 2.5A Step-Down Voltage Regulator	1	1	D24V25F3	\$ 10.95	Pololu.com	SIL-5	
	DIP14	DIP socket 14	5	10	112214	\$ 0.20	Jameco	14dip300	multiples of 10
	DIP16	DIP socket 16	1	10	112222	\$ 0.18	Jameco	16dip300	multiples of 10
	DIP20	DIP socket 20	8	10	112248	\$ 0.20	Jameco	20dip300	multiples of 10
	DIP28 (.600")	DIP socket 28 (.600")	1	1	40301	\$ 0.35	Jameco	28dip600	
	DIP32 (.600")	DIP socket, 32 Pins (.600")	2	2	105381	\$ 1.25	Jameco	32dip600	
	PLCC68 (U12)	Socket, PLCC 68 Pin, Solder tail	1	1	71969	\$ 1.39	Jameco	PLCC68	
	Card Ejector	Circuit Board Card Ejector, 0.062 inch, Nylon, White, BIVAR PN# CP-06 WE	2	2	749-CP-06-WE	\$ 0.73	Mouser		