

I have?	I Need?	Ref	Value	BOM Qty	OrderQty	Part No	Each	Src	Footprint	Info
		C12	47 pF, Capacitor Monolithic, 100 Volt, 5%, NPO	1	10	332567	\$ 0.19	Jameco	C2	multiples of 10
		C1, C2, C4, C5, C6, C7, C8, C9, C11, C14, C15, C16, C17, C23, C25, C27, C30, C33, C37, C39, C41, C42, C43, C45, C52, C54	0.1 uF, 25 Volt, Monolithic X7R, Radial	26	30	544921	\$ 0.15	Jameco	C2	multiples of 10
		C3, C13	10 uF, 25 Volt, 10%, Radial Tantalum	2	2	545641	\$ 0.59	Jameco	C1V5	
		C10	33 uF, 25 Volt, 10%, Radial Tantalum	1	1	33785	\$ 1.75	Jameco	C1V5	
		D1, D2, D3, D4, D5, D6, D7, D8	LED, Uni-Color Green, 567nm, 30mcd, 2-Pin, T-1	8	10	156930	\$ 0.15	Jameco	LEDV	multiples of 10
		D9	LED, Blue, 466nm, 50mcd, T1	1	1	333383	\$ 0.59	Jameco	LEDV	
		D10	LED, Uni-Color Yellow, 595nm, 450mcd, 2-Pin, T-1	1	10	206480	\$ 0.12	Jameco	LEDV	multiples of 10
		K2	LED, Bi-Color Green/Red, 565nm/697nm, 3-Pin, T-1 3/4	1	1	697557	\$ 0.25	Jameco	led-duoled-C-5mm	
		P18, P66	Test Pin, 1 Position, Unshrouded Header, Solder Straight	2		160882	\$ 0.79	Jameco	SIL-1	order 40 Pin strips
		P14	Jumper, 2 Position, Unshrouded Header, 2.54mm, Solder, Straight	8		160882	\$ 0.79	Jameco	SIL-2	order 40 Pin strips
		K2, K3, K5	Jumper, 3 Position, Unshrouded Header, 2.54mm, Solder, Straight	3		160882	\$ 0.79	Jameco	SIL-3	order 40 Pin strips
		P21	Jumper, 4 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		160882	\$ 0.79	Jameco	SIL-4	order 40 Pin strips
		P1, P2, P67	Jumper, 5 Position, Unshrouded Header, 2.54mm, Solder, Straight	3		160882	\$ 0.79	Jameco	SIL-5	order 40 Pin strips
		P10 (Optional)	Jumper, 7 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		160882	\$ 0.79	Jameco	SIL-7	order 40 Pin strips
		P12, P15, P16, P17, P19, P65 (Optional)	Jumper, 8 Position, Unshrouded Header, 2.54mm, Solder, Straight	6		160882	\$ 0.79	Jameco	SIL-8	order 40 Pin strips
		P63	Jumper, 4x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 0.85	Jameco	pin_array_4X2	Buy 20x2pins and cut down
		P4	Jumper, 6x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 0.85	Jameco	pin_array_6X2	Buy 20x2pins and cut down
		P11 (Optional)	Jumper, 6x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 0.85	Jameco	pin_array_6X2	Buy 20x2pins and cut down
		P3	Jumper, 8x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1		53532	\$ 0.85	Jameco	pin_array_8X2	Buy 20x2pins and cut down
		P33	Jumper, 20x2 Position, Unshrouded Header, 2.54mm, Solder, Straight	1	1	53532	\$ 0.85	Jameco	pin_array_20X2	
		P5, P6	Connector, 16X2 Position Header, 0.079" (2.00mm), Through Hole, Gold	2	2	S5750-30-ND	\$ 3.43	Digikey	pin_array_16X2	Buy 30x2pins and cut down
		P7, P8	Connector, 27X2 Position Header, 0.079" (2.00mm), Through Hole, Gold	2	2	S5750-30-ND	\$ 3.43	Digikey	pin_array_27X2	Buy 30x2pins and cut down
		R1, R11	150 Ohm 5% 1/4W, (CF)	1	10	690662	\$ 0.10	Jameco	R3	multiples of 10

	R3	330 Ohm 5% 1/4W, (CF)	1	10	690742	\$ 0.10	Jameco	R3	multiples of 10
	R10	500 Ohm 1% 1/4W, Metal Film Resistor	1	10	71- RN60D5000F	\$ 0.26	Mouser	R3	
	R2	1K Ohm 5% 1/4W, (CF)	1	10	690865	\$ 0.10	Jameco	R3	multiples of 10
	R12	2K Ohm 5% 1/4W, (CF)	1	10	690937	\$ 0.10	Jameco	R3	multiples of 10
	RR1, RR2	1K Ohm SIP 10 pin, 9 Resistors, 125 mWatt, 2%	2	2	97877	\$ 0.29	Jameco	r_pack9	
	RR5	1K Ohm SIP 6 pin, 5 Resistors, 125 mWatt, 2%	1	1	652-4606X- AP1-102LF	\$ 0.35	Mouser	r_pack5	
	SP1	Audio Buzzer, Piezo, 12VDC 7mA, 3VDC, 3500Hz to 4500Hz, Through Hole	1	1	138713	\$ 1.99	Jameco	buzzer_AL11P_ modified	
	P20 (Optional)	MicroSD card breakout board, with CD74HC4050 Buffer IC, 3.3V Voltage Regulator, 8-Pin Header Connector	1	1	254	\$ 7.50	Adafruit	SIL-8	
	SW2	DIP Switch, 4-Pos, On-Off, SPST, Raised Slide	1	1	38820	\$ 0.89	Jameco	8dip300	
	SW1	Switch, Push Button, Tactile, SPST, Normally Off, Momentary (On), 15 Volt DC @ 20mA	1	1	2231603	\$ 0.25	Jameco	sw_push_small	
	Q1	MPS2907A, PNP, Silicon Transistor, 625mW Max, TO-92	1	1	211342	\$ 0.29	Jameco	TO-92	
	P9	Clock Oscillator, 2.00 MHz, DIP-14, 5V, soldered (No socket needed)	1	1	27924	\$ 1.49	Jameco	14dip300	
	U12	74LS04	1	1	46316	\$ 0.59	Jameco	14dip300	
	U23, U28	74LS07N	2	2	46367	\$ 0.89	Jameco	14dip300	
	U16	74LS125	1	1	46501	\$ 0.69	Jameco	14dip300	
	U8, U9	74LS245	2	2	47212	\$ 0.79	Jameco	20dip300	
	U3, U4, U5, U6, U7, U10, U11, U13, U14, U15, U17, U20, U22, U32, U33, U34	74LVC245A, Bus Transceivers, Tri-State Octal Bus, Designed for 1.65-V to 3.6-V VCC operation	16	20	595- SN74LVC245 AN	\$ 0.49	Mouser	20dip300	multiples of 10
		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		
	P1	D24V25F5 Pololu 5V 2.5A Step-Down Voltage Regulator	1		D24V25F5	\$ 10.95	Pololu.com	SIL-5	
	P67 (Alternate for P1)	D24V22F5 Pololu 5V 2.5A Step-Down Voltage Regulator	1		D24V22F5	\$ 8.95	Pololu.com	SIL-5	
	U1 (Alternate for P1)	L7805ACV, 5 Volt, 1 Amp, 3 Pin 3+ Tab TO-220	1		924570	\$ 0.39	Jameco	TO-220	
	U2	LM3940IT-3.3, 3.3 Volt, 1 Amp, TO-220	1	1	926- LM3940IT- 3.3NOPB	\$ 1.81	Mouser	TO-220	
	U1, U2	Heat Sink TO-220, 0.75" x 0.36" x 0.75" (for LM7805 & LM3940)	2	2	70658	\$ 0.35	Jameco		
	U1, U2	Screw, 6-32, 1/4" Phillips	2						
	U1, U2	NUT, HEX, 6-32	2						

	DIP14	DIP socket 14 Pins	4	10	112214	\$ 0.14	Jameco	14dip300	multiples of 10
	DIP20	DIP socket 20 Pins	18	20	112248	\$ 0.17	Jameco	20dip300	multiples of 10
	P3, P4 (Card Ejector)	Circuit Board Card Ejector and Pin, 0.062 inch, White Nylon, BIVAR PN# CP-06 WE	2	2	749-CP-06- WE	\$ 0.49	Mouser		