

BOM revised with active and in stock (as of Feb 22nd, 2017) components at Digikey.com (except when noted otherwise)

by Suavek® <http://www.eskwadrat.com>2. Jameco 5. eBay
3. Newark 6. others

Digikey cost ea.	p/n at Digikey	Ref	Value	BOM_Qty	OrderQty	Part_No	Each	Src	Footprint	Info
\$1.400	160-1919-5-ND	BAR1	LED, 10 Bar LED Display, 20-pin DIP	1	1	697477	\$ 1.39	Jameco	20dip300	
\$0.860	AP106M025SCS	C3	10 uF, 25 Volt, 10%, Radial Tantalum	1	1	545641	\$ 0.59	Jameco	C1V5	
\$0.112	399-9877-1-ND	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C36, C37, C38, C39, C40, C41, C46, C47, C48, C49, C50, C51, C52, C53, C54, C57, C58, C59, C60, C61, C62, C63, C64	0.1 uF, 50 Volt, Monolithic Z5U, Radial	47	100	25523	\$ 0.07	Jameco	C2	multiples of 100
\$3.180	TAP336K025SCS	C1	33 uF, 25 Volt 10% Radial Tantalum	1	1	2044074	\$ 2.59	Jameco	C1V5	
\$0.950	TAP226K016SCS	C65	22 uF, 16 Volt, 10%, Radial Tantalum	1	1	94094	\$ 0.69	Jameco	C1V5	
\$2.670	TAP476K016SCS	C66	47 uF, 16 Volt, 10%, Radial Tantalum	1	1	94123	\$ 1.49	Jameco	C1V5	
\$0.290	FG28C0G1H470JNT06	C67, C68, C69	47 pF, Capacitor Monolithic 100 Volt 5% Npo -10	3	10	332567	\$ 0.19	Jameco	C2	multiples of 10
\$0.078	1N4149CT-ND	D4	1N4148 (1N914)	1	10	36311	\$ 0.05	Jameco	D3	multiples of 10
\$0.380	754-1264-ND	D3, D5	LED, Red Diffused T1 3/4, 19mcd 635nm	2	10	697522	\$ 0.09	Jameco	LEDV	multiples of 10
\$0.390	754-1284-ND	D2, D6	LED, Yellow Diffused T-1 3/4, 29mcd 585nm	2	10	697549	\$ 0.09	Jameco	LEDV	multiples of 10
\$0.390	732-5015-ND	D7	LED, Blue, T-1 3/4, 50mcd, 468nm	1	1	2006764	\$ 0.69	Jameco	LEDV	
\$0.145	PRPC002SAAN-RC	JP8, JP9, JP11, JP12, JP13, JP14, JP17	Jumper, 2 Position, Unshrouded Header 2.54mm Solder Straight	14		160882	\$ 0.75	Jameco	SIL-2	order 40 Pin strips
\$0.180	PRPC003SAAN-RC	K1, K3, K4, K5, K6, K7, K8, K9, K10	Jumper, 3 Position, Unshrouded Header 2.54mm Solder Straight	9		160882	\$ 0.75	Jameco	SIL-3	order 40 Pin strips
\$0.235	PRPC008SAAN-RC	P62, P63, P64	Jumper, 8 Position, Unshrouded Header 2.54mm Solder Straight	3		160882	\$ 0.75	Jameco	SIL-8	order 40 Pin strips
\$0.690	PRPC013DAAN-RC	P56	Jumper, 13x2 Position, Unshrouded Header 2.54mm Solder Straight	1		203895	\$ 0.75	Jameco	pin_array_13x2	order 19x2 Pin strips
\$0.330	PRPC002DAAN-RC	P57, P67	Jumper, 2x2 Position, Unshrouded Header 2.54mm Solder Straight	2		203895	\$ 0.75	Jameco	PIN_ARRAY_2X2	order 19x2 Pin strips
\$0.430	PRPC005DAAN-RC	P36	Jumper, 5x2 Position, Unshrouded Header 2.54mm Solder Straight	1		203895	\$ 0.75	Jameco	PIN_ARRAY_5x2	order 19x2 Pin strips
\$0.530	PRPC008DAAN-RC	P65, P66	Jumper, 8x2 Position, Unshrouded Header 2.54mm Solder Straight	2		203895	\$ 0.75	Jameco	pin_array_8x2	order 19x2 Pin strips
\$2.370	ECS-100AX-020	P55	Clock Oscillator, DIP-14, 5V, 2 MHz	1	1	27924	\$ 1.49	Jameco	14dip300	
\$2.370	ECS-100A-240	P61	Clock Oscillator, DIP-14, 5V, 24 MHz	1	1	2135321	\$ 0.59	Jameco	14dip300	
\$0.190	2N3904-APCT-ND	Q1	2N3904 NPN General Purpose	1	10	38359	\$ 0.05	Jameco	TO92-INVERT	multiples of 10
\$0.100	RNF14FTD10R0	R9, R10, R11, R12	10 Ohm 5% 1/4W	4					R3	
\$0.100	RNF14FTD150R	R18, R20, R22	150 Ohm 5% 1/4W	3					R3	
\$0.100	RNF14FTD470R	R5, R6, R14, R25, R28	470 Ohm 5% 1/4W	5					R3	
\$0.100	RNF14FTD1K00	R1, R3, R4, R13, R15, R23, R26, R27	1K Ohm 5% 1/4W	8					R3	
\$0.100	RNF14FTD4K75	R7 R8 R16 R17 R19 R21 R24 R29 R30	4.7K Ohm 5% 1/4W	9					R3	
\$0.660	4609X-101-103LF	RR2, RR3, RR4	1K Ohm SIP 10 pin, 9 Resistors	3	3	97877	\$ 0.17	Jameco	r_pack9	
\$1.470	76SB08T	SW3	DIP Switch, 8-Pos, On-Off, SPST, Raised Rocker	1	1	696917	\$ 1.39	Jameco	SWDIP8	
	NOT USED	Vol_Reg101 (Alternate for LM323K at U48)	D24V25F5 (Alternate for LM323K at U48) Pololu 5V 2.5A Step-Down Voltage Regulator	1	1	D24V25F5	\$ 10.95	Pololu.com	~	
	NOT USED	(Alternate for LM323K at U48)	EzSBC PSU5, 5V 3A Drop-in replacement of LM323K (Alternate for LM323K at U48)	1	1	PSU5	\$ 8.95	EzSBC.com	TO3	
\$4.750	LM32K (JAMECO)	U48	LM323K Regulator, 5 Volt, 3 Amp, TO-3	1	1	23667	\$ 4.75	Jameco	TO3	
\$3.030	UP-T03-CB	U48	Heat Sink Passive TO-3 (for LM323K)	1	1	151547	\$ 1.49	Jameco	TO3	CHECK FIT

	OWNED	U48	Screw, 6-32, 3/8" Phillips	2							
	OWNED	U48	Nut, Hex, 6-32	2							
\$12.950	EBAY	U64	82C84 8 MHz Clock Generator Driver DIP-18	1	1	82C84	\$ 4.99	Unicornelectronics.com	18dip300		
\$4.320	EBAY	U68	82C88 Bus Controller (CMOS) DIP-20	1	1	82C88	\$ 2.49	Unicornelectronics.com	20dip300		
\$8.800	EBAY	U70	8086-2 CISC 16-Bit HMOS 5MHz DIP-40	1	1	52100	\$ 3.95	Jameco	40dip600		
\$0.950	SN74LS07N	U49	74LS07N	1	1	46367	\$ 0.75	Jameco	14dip300		
\$0.630	SN74F04N	U50	74F04	1	1	287005	\$ 0.35	Jameco	14dip300		
\$0.630	SN74F00N	U52	74F00	1	1	74F00	\$ 0.29	Unicornelectronics.com	14dip300		
\$0.870	SN74ALS74AN	U53, U57, U91	74LS74	3	3	48004	\$ 0.75	Jameco	14dip300		
\$0.630	SN74F21N	U58	74F21	1	1	74F21	\$ 1.17	eBay:ACPSurplus	14dip300		
\$0.810	SN74ALS08N	U59	74LS08	1	1	46375	\$ 0.45	Jameco	14dip300		
\$0.630	SN74F32N	U60, U71	74F32	2	2	287048	\$ 0.45	Jameco	14dip300		
\$0.630	SN74F74N	U61, U65	74F74	2	2	287056	\$ 0.39	Jameco	14dip300		
\$0.810	SN74ALS04BN	U63	74LS04	1	1	46316	\$ 0.49	Jameco	14dip300		
\$0.470	SN74F27N	U72	74F27	1	1	74F27	\$ 0.36	Anchor Electronics	14dip300		
\$0.890	SN74ALS05AN	U79	74LS05	1	1	46341	\$ 0.59	Jameco	14dip300		
\$0.890	SN74ALS32N	U81	74LS32	1	1	47466	\$ 0.45	Jameco	14dip300		
\$2.360	SN74ALS164AN	U87, U88	74LS164	2	2	301671	\$ 0.55	Jameco	14dip300		
\$0.950	SN74ALS11AN	U89	74LS11	1	1	46439	\$ 0.59	Jameco	14dip300		
\$0.900	SN74LS30N	U90	74LS30	1	1	47458	\$ 0.69	Jameco	14dip300		
\$1.150	SN74LS367AN	U66	74LS367	1	1	308451	\$ 0.79	Jameco	16dip300		
\$0.950	SN74ALS138AN	U67	74LS138	1	1	301233	\$ 0.69	Jameco	16dip300		
\$0.900	SN74F244N	U55, U78	74F244	2	2	44775	\$ 0.49	Jameco	20dip300		
\$1.230	SN74ALS240AN	U56	74LS240	1	1	47141	\$ 0.69	Jameco	20dip300		
\$1.110	SN74ALS373AN	U73, U74, U75, U84, U85, U86	74LS373	6	6	47600	\$ 0.69	Jameco	20dip300		
\$1.150	SN74ALS245AN	U76, U77	74LS245	2	2	47212	\$ 0.69	Jameco	20dip300		
\$2.360	SN74LS682N	U80	74LS682N	1	1	309260	\$ 1.75	Jameco	20dip300		
\$1.150	SN74ALS244CN	U92	74LS244	1	1	308312	\$ 0.69	Jameco	20dip300		
\$6.520	AT28C256-15PU-ND	U82, U83	EPROM, 27C512, 5V 64Kx8, DIP-28, 150ns (or EEPROM, 28C256-15 32Kx8)	2	2	74843	\$ 5.49	Jameco	28dip600		
\$0.300	887-2020-ND	X1	Crystal, 24.000 MHz, Hc49/Us, 20pF, Low Profile	1	1	325024	\$ 0.59	Jameco	HC-18UV		
\$0.540	SA143000	DIP14S (P55, P61)	DIP Socket, Osc, 4-Pins	2	2	133006	\$ 0.65	Jameco	14dip300		
\$0.540	SA143000	DIP14	DIP socket 14	20	20	112214	\$ 0.14	Jameco	14dip300	multiples of 10	
\$0.750	SA163000	DIP16	DIP socket 16	2	10	112222	\$ 0.20	Jameco	16dip300	multiples of 10	
\$0.840	SA183000	DIP18	DIP socket 18	1	10	112231	\$ 0.17	Jameco	18dip300	multiples of 10	
\$0.819	SA203000	DIP20	DIP socket 20	14	20	112248	\$ 0.17	Jameco	20dip300	multiples of 10	
\$1.300	SA286000	DIP28	DIP socket 28 (.600")	2	10	40301	\$ 0.26	Jameco	28dip600	multiples of 10	
\$1.730	SA406000	DIP40	DIP socket 40 (.600")	1	10	526272	\$ 0.37	Jameco	40dip600	multiples of 10	
\$0.370	749-CP-06-WE (Mouser)	Card Ejector	Circuit Board Card Ejector, 0.062 inch, Nylon, White, BIVAR PN# CP-06 WE	2	2	749-CP-06-WE	\$ 0.49	Mouser			