

**Bill of Materials:**

Part Number: 32900  
Revision: A

**Propeller Board of Education**

Product Owner: Education  
Last Updated: 3/22/2012 3:08:02 PM

#	Parallax_PN	Quantity	Designator	Syspro_Desc	Orderable Part Number	Notes	Digikey_PN	Mouser_PN
1	150-12021	1	R18	RES,20,5%,0402	311-20JTR-ND		311-20JTR-ND	
2	150-12022	1	R16	RES,16k,5%,0402	P16KJTR-ND		P16KJTR-ND	
3	150-12023	1	R1	RES,240,5%,0402	311-240JTR-ND		311-240JTR-ND	
4	172-16000	2	R8, R10	RES,8.2k,1%,0402	P8.20KJTR-ND		P8.20KJTR-ND	
5	172-16001	2	R7, R8	RES,18k,1%,0402	311-18.0KLRTR-ND		311-18.0KLRTR-ND	
6	172-16002	1	R24	RES,20k,1%,0402	311-20.0KLRTR-ND		311-20.0KLRTR-ND	
7	172-16003	1	R23	RES,60,4k,1%,0402	311-60.4KLRTR-ND		311-60.4KLRTR-ND	
8	172-16004	1	R21	RES,100,1%,0402	311-100LRTR-ND		311-100LRTR-ND	
9	172-16005	1	R20	RES,59k,1%,0402	RMCF0402F159K0TR-ND		RMCF0402F159K0R-ND	
10	172-16006	1	R19	RES,1.5k,1%,0402	RMCF0402F1K50TR-ND		RMCF0402F1K50R-ND	
11	172-16007	1	R17	RES,43.2k,1%,0402	RMCF0402F43K2TR-ND		RMCF0402F43K2R-ND	
12	173-01040	4	R3, R25, R26, R36					
13	173-02220	1	R2					
14	174-10000	1	R22		311-0.02AJTR-ND		311-0.02AJTR-ND	
15	179-10000	2	R27, R33		RAVF104DJT10K0-ND		RAVF104DJT10K0-ND	
16	179-10006	6	R6, R28, R29, R30, R31, R34	RES-NTWK,240,5%,0804	RAVF104DJT240R-ND or CRA4S8240TR-ND		RAVF104DJT240R-ND or CRA4S8240TR-ND	
17	179-10007	3	R5, R14, R15	RES-NTWK,100k,5%,0804	RAVF104DJT100KTR-ND		RAVF104DJT100KR-ND	
18	179-10008	2	R32, R35	RES-NTWK,470,5%,0804	RAVF104DJT470RTR-ND		RAVF104DJT470R-ND	
19	179-10009	2	R11, R12	RES-NTWK,3.9k,5%,0804	CRA4S83.9KTR-ND		CRA4S83.9KTR-ND	
20	200-10502	2	C8, C9	CAP-CER,470pF,10%,50V	311-1028-2-ND		311-1028-2-ND	
21	200-10503	4	C6, C7, C30, C40	CAP-CER,1000pF,5%,50V	478-3661-1-ND		478-3661-1-ND	
22	200-10504	1	C31	CAP-CER,0.01uF,10%,16V	478-1114-2-ND		478-1114-2-ND	
23	200-10505	1	C20	CAP-CER,820pF,5%,50V	490-3242-2-ND		490-3242-2-ND	
24	200-10506	1	C19	CAP-CER,0.082uF,10%,16V	PCC2145TR-ND		PCC2145TR-ND	
25	200-10507	1	C18	CAP-CER,3300pF,10%,50V	311-1034-2-ND		311-1034-2-ND	
26	200-11507	2	C10, C11					
27	200-11509	13	C2, C4, C5, C12, C16, C17, C33, C34, C35, C36, C37, C38, C39		311-1375-2-ND		311-1375-2-ND	
28	200-11511	7	C3, C15, C25, C26, C27, C28, C29					
29	200-11515	1	C21		478-5728-2-ND		478-5728-2-ND	
30	200-11516	1	C22		490-5467-2-ND		490-5467-2-ND	
31	200-11517	1	C23		493-4143-1-ND		493-4143-1-ND	
32	200-11518	2	C13, C14		565-2105-2-ND		565-2105-2-ND	
33	213-04761	3	C1, C24, C32					
34	251-05000	1	Y1					
35	275-10004	2	FB1, FB2					
36	275-10015	1	L1		553-1061-2-ND		553-1061-2-ND	
37	275-10016	1	L2		SRR1280-470MTR-ND		SRR1280-470MTR-ND	
38	300-32900	1	PCB	Raw, PCB, PropBOE Rev A				
39	350-10001	4	D6, D14, D15, D20					
40	350-10002	4	D1, D2, D8, D9					
41	350-10003	4	D12, D13, D16, D17					
42	350-10004	4	D7, D10, D11, D19					
43	400-10003	1	SW1					
44	400-10007	1	SW2		CKN9543-ND		CKN9543-ND	842-MS22
45	400-10008	1	U6		296-23988-2-ND		296-23988-2-ND	595-1FS2553DBV
46	450-00105	3	J4, J9, J11	CON-HDR,2x3,0.1",Straight,2H				
47	450-01301	2	J1, J3					
48	450-01601	1	J2					
49	450-01701	4	J5, J5B, J6, J18					
50	451-01030	3	J8, J10, J12	CON-HDR,1x3,0.1",Straight,2H	3M9322-ND		3M9322-ND	
51	451-02061	1	J15					
52	452-00007	1	J13					
53	452-00013	1	J14B					
54	452-00014	1	J14A					
55	452-00050	3	J8(B), J10(B), J12(B)					
56	452-10010	2	J6, J14					
57	452-10017	1	J19		HR1941TR-ND		HR1941TR-ND	798-DM3D-SF
58	452-10018	1	J17					
59	452-10020	1	J16	CON,USB Mini-B,SMD+2H				
60	500-10000	1	Q4		MMST4401TPMSC-ND		MMST4401TPMSC-ND	
61	500-10015	2	Q5, Q6					
62	500-10024	1	Q1		DMN3404D1TR-ND		DMN3404D1TR-ND	
63	500-10025	2	Q2, Q3		DMP2305UD1TR-ND		DMP2305UD1TR-ND	
64	501-10020	1	D4		DDZ5V6BD1TR-ND		DDZ5V6BD1TR-ND	
65	501-10021	1	D5		SSA34-E361TG1TR-ND		SSA34-E361TG1TR-ND	
66	501-10023	1	D18	BIO-CC,BA754C,200mA,30V	BAT54C-FD1TR-ND		BAT54C-FD1TR-ND	
67	502-14003	1	F1		507-1503-1-ND		507-1503-1-ND	
68	601-10503	1	U7		LM3478MMTR-ND		LM3478MMTR-ND	
69	601-10504	1	U8		AP1117E33GDICT-ND		AP1117E33GDICT-ND	621-AP1117E33G-13
70	602-10001	1	U9					
71	603-10012	1	U15		568-4457-1-ND		568-4457-1-ND	595-SN74AHC541PW
72	603-10014	3	U3, U13, U14	IC,NC7WZ16,SC-70	NC7WZ17P6XCT-ND		NC7WZ17P6XCT-ND	512-NC7WZ17P6X
73	603-10016	1	U4		497-8165-2-ND		497-8165-2-ND	
74	604-00047	1	U12	IC,FEDI USB-Ser,FT232RQ,QFN-32				
75	604-10016	1	U2		AD7993BRUZ-1-ND		AD7993BRUZ-1-ND	
76	604-10026	1	U5		568-2298-1-ND		568-2298-1-ND	
77	700-00012	1	Breadboard					
78	700-00037	1	Feet					
79	900-00015	1	M1		P11969-ND		P11969-ND	
80	P8X32A-Q44	1	U10					