

UFORCE20

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Bill Of Materials Oct. 14,1997

Item	Quantity	Reference	Part	Package	Description
1	4	C1,C6,C10,C30	0.001uF	603	+/-10%, X7R, 50V
2	18	C2,C7,C11,C26,C106,C109, C111,C116,C121,C125,C128, C130,C132,C134,C136,C137, C147,C150	0.01uF	603	+/-10%, X7R, 50V
3	54	C3,C4,C5,C8,C12,C13,C14, C15,C16,C17,C18,C19,C20, C21,C22,C33,C34,C35,C36, C37,C40,C41,C42,C43,C44, C48,C49,C52,C54,C55,C56, C57,C58,C64,C70,C73,C74, C75,C76,C77,C82,C83,C85, C95,C96,C103,C104,C108, C115,C139,C140,C142,C143, C148	0.1uF	603	+/-10%, X7R, 50V
4	7	C9,C31,C32,C69,C79,C84, C86	10uf	A CASE	Tantalum, A CASE, 10V
5	1	C23	330pF	603	+/-10%, X7R, 50V
6	2	C24,C25	470pF	603	+/-10%, X7R, 50V
7	1	C27	15pF	603	+/-5%, COG, 50V
8	1	C28	33pF	603	+/-5%, X7R, 50V
9	5	C29,C60,C63,C71,C72	22pf	603	+/-5%, COG, 50V
10	4	C38,C39,C87,C88	0.33uf	805	+/-10%, X7R, 100V
11	9	C45,C46,C47,C50,C51,C59, C61,C62,C78	1uF	A CASE	Tantalum, A CASE, 16V

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Item	Quantity	Reference	Part	Package	Description
12	1	C53	6.8uF	A CASE	Tantalum, A CASE, 10V
13	4	C65,C66,C67,C68	3.3uF	C CASE	Tantalum, C CASE, 35V
14	8	C80,C81,C94,C99,C120, C124,C129,C138	1000pF	805	+/-5%, COG, 50V
15	2	C101,C89	68pf	805	+/-5%, COG, 50V
16	8	C90,C91,C93,C98,C102, C144,C145,C146	1.0uF	1206	+/-10%, Y5V, 50V
17	2	C92,C97	47uf	C CASE	Tantalum, C CASE, 10V
18	2	C100, C141	2700pF	805	+/-10%, X7R, 50V
19	4	C105,C113,C122,C123	22uF	E CASE	Tantalum, E CASE, 35V, low ESR
20	2	C107,C114	100uF	D CASE	Tantalum, D CASE, 10V, low ESR
21	3	C110,C117,C149	6800pF	805	+/-5%, COG, 50V
22	2	C112, C133	100uF	E CASE	Tantalum, E CASE, 16V, low ESR
23	3	C118,C126,C127	68uF	E CASE	Tantalum, E CASE, 20V, low ESR
24	1	C119	33uF	D CASE	Tantalum, D CASE, 25V, low ESR
25	1	D1	BAT54	SOT-23	PHILLIPS BAT54
26	3	D3,D4,D6	MBRS130LT3	403A-03	MOTOROLA MBRS130LT3
27	1	D5	*MBRS130LT3	403A-03	MOTOROLA MBRS130LT3
28	1	D7	SS26	DO-214AA	GENERAL INSTRUMENTS SS26
29	3	D8,D9,D12	SS24	DO-214AA	GENERAL INSTRUMENTS SS24
30	1	D10	GLL4743	DO-213AB	GENERAL INSTRUMENTS GLL4743
31	1	D13	LM4041CIM3-1.2	SOT-23	MICREL LM4041CIM3-1.2
32	8	D15,D16,D17,D18,D19,D20, D21,D22	RB400D	SOT-23	ROHM RB400D
33	1	D24	LED	SOT-23	ROHM SLM-13MW
34	1	F1	1.5A	603	LITTELFUSE R431 1.5A
35	1	F2	1.0A	603	LITTELFUSE R431 1.0A
36	2	F3,F4	0.5A	603	LITTELFUSE R431 0.5A
37	2	F5,F6	2.0A	603	LITTELFUSE R431 2.0A
38	2	JP1,JP2	2mm 1x2	TH 2mm	SAMTEC TMM-102-01-T-S
39	1	J1	CON8	SMT-8	AMP 487952-8
40	1	J2	CON18	SMT-18	AMP 1-487951-8
41	1	J3	HDR 4X1	TH-4	HEADER 1x4
42	1	J4	CON2	TH-2	MOLEX 53048-0210

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43	1	J5	CON3	TH-3	MOLEX 70553-0002
44	1	J6	PWR3	TH-3	SWITCHCRAFT RAPC-712
45	4	L1,L2,L3,L4	INDUCTOR	1206	TDK CB70-1206
46	3	L5,L6,L7	47uH	SMT-2	COILTRONICS UP2-470
47	1	L8	100uH	SMT-2	COILTRONICS UP2-101
48	1	L9	68uH	SMT-2	COILTRONICS UP2-680
49	1	P1	PCMCIA CONN.	SMT-68	MOLEX 53556-6810 WITH EJECTOR 53410
50	1	P2	MINI CARD	SMT-63	AUGAT 619-200098-00
51	1	P3	HEADER 5X2	TH-10	HEADER 2x5
52	1	P4	CON14	TH-14	MOLEX 39-51-3144
53	1	P5	CON7	TH-7	MOLEX 39-51-3074
54	1	P6	PHONEJACK	TH	LZR RL-363, 3.5mm
55	2	Q1,Q6	TPO610T	SOT-23	TEMIC TPO610T
56	7	Q2,Q3,Q5,Q9,Q10,Q11,Q12	2N7002	SOT-23	TEMIC 2N7002
57	1	R1	10	603	+/- 5%, 1/16 W, 50V
58	45	R2,R3,R8,R9,R10,R11,R12, R13,R14,R15,R16,R17,R18, R19,R20,R21,R22,R23,R27, R36,R49,R50,R51,R52,R53, R54,R55,R57,R58,R59,R60, R61,R62,R76,R81,R84, R104,R122,R126,R149,R150, R151,R154,R159,R160	10K	603	+/- 5%, 1/16W, 50V
59	7	R4,R5,R6,R7,R63,R144, R145	4.7K	603	+/- 5%, 1/16W, 50V
60	3	R24,R25,R136	150K	603	+/- 5%, 1/16W, 50V
61	8	R26,R28,R30,R35,R37,R75, R93,R123	100K	603	+/- 5%, 1/16W, 50V
62	6	R29,R31,R32,R33,R34,R124	1M	603	+/- 5%, 1/16W, 50V
63	2	R38,R152	*0	603	+/- 5%, 1/16W, 50V
64	1	R39	47	1206	+/- 5%, 1/4W, 200V
65	2	R41,R40	10	1206	+/- 5%, 1/4W, 200V
66	6	R43,R44,R45,R47,R48,R157	1K	603	+/- 5%, 1/16W, 50V
67	1	R46	13K	603	+/- 5%, 1/16W, 50V
68	1	R56	3.3K	603	+/- 5%, 1/16W, 50V
69	1	R64	2.2K	603	+/- 5%, 1/16W, 50V

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Item	Quantity	Reference	Part	Package	Description
70	5	R65,R66,R68,R69,R70	6.8K	805	+/- 5%, 1/10W, 50V
71	2	R67,R82	39K	805	+/- 5%, 1/10W, 50V
72	1	R71	33K	805	+/- 5%, 1/10W, 50V
73	2	R74,R72	33	805	+/- 5%, 1/10W, 50V
74	2	R77,R73	27K	805	+/- 5%, 1/10W, 50V
75	4	R78,R79,R127,R146	47K	805	+/- 5%, 1/10W, 50V
76	2	R80,R83	22K	805	+/- 5%, 1/10W, 50V
77	4	R85,R94,R147,R158	20K	603	+/- 5%, 1/16W, 50V
78	1	R86	33.2K	1206	+/- 1%, 1/8W, 100V
79	2	R87,R98	0	603	+/- 5%, 1/16W, 50V
80	3	R88,R99,R116	10.0K	1206	+/- 1%, 1/8W, 100V
81	3	R89,R100,R155	20.0K	1206	+/- 1%, 1/8W, 100V
82	1	R90	118K	1206	+/- 1%, 1/8W, 100V
83	1	R92	90.9K	1206	+/- 1%, 1/8W, 100V
84	1	R96	60.4K	1206	+/- 1%, 1/8W, 100V
85	1	R101	13.0K	1206	+/- 1%, 1/8W, 100V
86	2	R102,R106	4.75K	1206	+/- 1%, 1/8W, 100V
87	1	R103	1.50K	1206	+/- 1%, 1/8W, 100V
88	1	R105	100K	1206	+/- 1%, 1/8W, 100V
89	1	R107	2K POT	TH	BOURNS 3352 W-1-202
90	1	R108	4.53K	1206	+/- 1%, 1/8W, 100V
91	1	R112	0.1	2010	+/- 1%, 1/4W, 100V
92	1	R113	100	805	+/- 1%, 1/10W, 50V
93	1	R114	3.01K	805	+/- 1%, 1/10W, 50V
94	2	R115, R153	1.00K	805	+/- 1%, 1/10W, 50V
95	1	R116	10.0K	805	+/- 1%, 1/10W, 50V
96	1	R121	34.0K	805	+/- 1%, 1/10W, 50V
97	2	R142, R143	2M	603	+/- 5%, 1/16W, 50V
98	3	R128,R129,R137	5M	603	+/- 5%, 1/16W, 50V
99	1	R131	182K	805	+/- 1%, 1/10W, 50V
100	1	R132	196K	805	+/- 1%, 1/10W, 50V
101	3	R134,R135,R139	60.4K	805	+/- 1%, 1/10W, 50V
102	1	R138	169K	805	+/- 1%, 1/10W, 50V
103	1	R140	470	603	+/- 5%, 1/16W, 50V
104	1	R148	330	603	+/- 5%, 1/16W, 50V

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Item	Quantity	Reference	Part	Package	Description
105	1	R155	20.0K	805	+/- 1%, 1/10W, 50V
106	1	R156	6.34K	805	+/- 1%, 1/10W, 50V
107	1	R161	32.4K	805	+/- 1%, 1/10W, 50V
108	1	R162	11.0K	805	+/- 1%, 1/10W, 50V
109	1	R163	301K	805	+/- 1%, 1/10W, 50V
110	1	R164	150K	805	+/- 1%, 1/10W, 50V
111	1	R165	110K	805	+/- 1%, 1/10W, 50V
112	2	SW1,SW2	PBNO	SMT-4	C&K KT11P2SM
113	1	U1	E4_292	BGA-292	AMD ElanSC400
114	1	U2	74ACT04	SOIC-14	74ACT04
115	2	U3,U4	29F016	TSOP-48	AM29F016EC-120
116	2	U5,U6	*TC51V18160AFTS	TSOP-50	TOSHIBA TC51V18160AFTS-70
117	2	U8,U7	4Mx16	TSOP-50	SEC KM416V4100AS-6 4Mx16
118	1	U9	74ACT244	SOIC-20	74ACT244
119	1	U10	PCMCIA PWR	SSOP-28	Micrel MIC2563A-1
120	1	U11	74ACT125	SOIC-14	74ACT125
121	1	U12	LTC1478CS	SOIC-16	LINEAR TECH LT1478CS
122	1	U13	RS232-3V	SSOP-28	LTC1327CG
123	1	U14	TFDS6000	SMT	TEMIC TFDS6000"D"
124	1	U15	74ACT00	SOIC-14	74ACT00
125	1	U16	DIGITIZER	SOP-28	TRI-TECH TR88802CS
126	1	U17	MC33174	SO 14	MOTOROLA MC33174
127	1	U18	CS 4236B	TQFP-100	CRYSTAL 4236B-KQ
128	1	U19	TDA1308	SOIC-8	PHILLIPS TDA1308
129	1	U20	LM4861M	SOIC-8	NATIONAL LM4861M
130	2	U21,U23	MIC2178BWM	SOIC-20	MICREL MIC2178BWM
131	1	U22	MIC29152BU	TO-263-5	MICREL MIC29152BU
132	2	U24,U25	MIC3172BM	SOIC-8	MICREL MIC3172BM
133	1	U27	MIC4576BU	TO-263-5	MICREL MIC4576BU
134	2	U28,U29	MIC6211	SOT-23-5	MICREL MIC6211BM5
135	1	U37	LMC7221	SOT23-5	NATIONAL LMC7221
136	1	U38	TLC3704C	SOIC-14	TI TLC3704CD
137	1	U39	MC33340	SOIC-8	MOTOROLA MC33340
138	1	U40	SI9435DY	SOIC-8	TEMIC SI9435DY
139	1	U41	SI4435DY	SOIC-8	TEMIC SI4435DY
140	2	U42, U43	TC7SH32FU	SSOP5-P-A	TOSHIBA TC7SH32FU

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Item	Quantity	Reference	Part	Package	Description
141	1	X1	32.768 KHz	SMT-4	ECLIPTEK ECPSM29T
142	1	X2	1.8432MHz	HC49U	Ecliptec EC1.8432M
143	1	X3	MICROPHONE	TH-2	PANASONIC WM-54BT
144	1	Y1	16.9mhz	TH	Cal Crystal CCL-SM3B14F
145	2	JP1,JP2	Shunt	2mm	SAMTEC 2SN-BK-G

A * in the parts column denotes that the part is not used at this time