



360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

APPENDIX E: BILL OF MATERIALS (PARTS LIST)

Item	Quantity	Reference	Part
1	2	ANT1,ANT2	Patch_ANT
2	4	C2,C11,C15,C3041	2.2uF
3	36	C12,C13,C17,C18,C26,C29, C30,C32,C35,C36,C40,C41, C53,C57,C70,C71,C72,C84, C89,C93,C112,C117,C121, C124,C132,C133,C135, C3021,C3023,C3026,C3034, C3036,C3043,C3055,C3059, C3060	0.1uF
4	16	C22,C60,C61,C68,C86,C92, C95,C99,C103,C114,C125, C130,C139,C140,C3037, C3038	0.01uF
5	6	C23,C76,C80,C116,C2003, C3042	1000pF
6	6	C24,C69,C3063,C3070, C3080,C3084	22pF
7	9	C38,C43,C129,C134,C136, C3022,C3027,C3035,C3095	10uF
8	6	C39,C44,C47,C55,C56,C74	220pF
9	5	C42,C137,C3031,C3032, C3096	1nF
10	2	C45,C46	15pF
11	2	C49,C75	3.3pF
12	2	C52,C51	10pF
13	1	C58	1.8pF
14	8	C59,C67,C78,C109,C3076, C3078,C3079,C3083	7pF
15	11	C62,C83,C3064,C3065, C3072,C3073,C3077,C3081, C3085,C3086,C3087	9pF
16	12	C85,C88,C94,C104,C108, C2015,C3082,C3088,C3089, C3092,C3093,C3094	100pF
17	1	C91	0.022uF
18	1	C100	0.22uF
19	1	C107	3900pF
20	2	C110,C120	68pF
21	4	C111,C3044,C3068,C3074	24pF
22	1	C118	0.068uF
23	1	C123	0.68uF
24	4	C3028,C3029,C3057,C3058	18pF
25	2	C3030,C3033	180pF
26	2	C3039,C3040	2.2nF
27	2	C3046,C3045	10uF/6.3V
28	9	C3047,C3048,C3049,C3050, C3051,C3052,C3053,C3054,	100nF

		C3061	
29	2	C3075,C3066 4.7pF	
30	5	L3004,L3019,L3022,L3027, C3069	3.3nH
31	10	R13*,R3008*,L3012,L3013, L3015,L3017,L3024,L3026, C3071,C3091	미삽
32	1	C3090 270pF	
33	2	D4,D7 BZX84C3V3/SOT	
34	2	D5,D6 BAT54S/SOT	
35	1	D207 SML010MT RED	
36	1	D208 SML010MT GRN	
37	1	D210 BAT14-03	
38	1	FL1 SAW374M	
39	2	FL5,FL6 LFSN30	
40	1	J1 BNC	
41	1	J100 USB_B 5pin	
42	1	J101* USB_B	
43	1	J102* MMS2_08	
44	1	L1 0.56uH	
45	6	L2,L3007,L3008,L3009, L3010,L3011	BLM21P300S
46	1	L5 39nH	
47	1	L6 18nH	
48	3	L7,L3018,L3023	2.2nH
49	4	L9,L10,L12,L14	33nH
50	1	L73 2.7nH	
51	1	L3016 1.8nH	
52	2	L3025,L3020	5.6nH
53	1	L3021 3.9nH	
54	1	L3028 1.5nH	
55	1	L3029 4.7nH	
56	3	Q1,Q8,Q9 IRLML6302	
57	3	Q2,Q5,Q6* IRLML2402	
58	1	Q7 ATF35143	
59	8	R1,R3017,R3026,R3030, R3032,R3033,R3035,R3036	3.3K
60	1	R2 10M	
61	4	R3,R4*,R3013,R3015	270
62	21	R5,R8***,R8**,R8*,R8,R9, R10,R19,R23,R27,R29,R57, R61,R63,R64,R74,R1073, R3006,R3007,R3023,R3024	0
63	4	R6,R7,R3018,R3019	15
64	1	R11 0*	
65	4	R15,R65,R3016*,R3016	1.5K
66	1	R20 560	
67	10	R22,R25,R31,R35,R47,R49, R51,R3028,R3038,R3039	100
68	3	R28,R30,R37	1.0K
69	2	R32,R36	12K
70	2	R33,R34	19.1K
71	1	R38 10K	
72	2	R39,R44	1.1K

73	2	R40,R52	2K	
74	9	R41,R3037,R3040,R3041, R3042,R3044,R3047,R3049, R3050		1k
75	1	R45	2.7K	
76	1	R55	3.92K	
77	2	R56,R3045	51	
78	4	R58,R62,R66,R67	124	
79	2	R70,R59	510	
80	1	R69	649	
81	1	R73	10	
82	2	R75,R77	90.9	
83	1	R76	82.5	
84	2	R3043*,R2015	20	
85	1	R3009	820	
86	3	R3010,R3021,R3022	150	
87	4	R3027,R3029,R3031,R3034		3.3K*
88	1	R3046	470	
89	1	R3048	330	
90	95	T1,T2,T3,T4,T5,T6,T7,T8, T11,T12,T13,T14,T15,T16, T17,T18,T19,T20,T21,T22, T23,T24,T25,T26,T27,T28, T29,T30,T31,T32,T33,T34, T35,T36,T37,T38,T39,T40, T41,T42,T43,T44,T45,T46, T47,T100,T101,T103,T104, T105,T106,T107,T108,T109, T110,T111,T112,T113,T114, T115,T116,T117,T118,T119, T120,T121,T122,T123,T124, T125,T200,T201,T202,T203, T204,T205,T206,T207,T208, T209,T210,T211,T212,T213, T214,T215,T216,T217,T300, T301,T302,T306,T307,T308, T309		TP
91	1	U1	AT76C503A	
92	1	U2	GS71108TP	
93	1	U3	HFA3863	
94	1	U4	HFA3783	
95	1	U5	HFA3683A	
96	1	U6	ITT2303gj	
97	1	U7	LDC15B120J2450	
98	2	U8,U9	UPG158TB	
99	2	U11,U10	AME8801AEEV	
100	2	U12,U13	AME8801JEEV	
101	1	U15	44M-OSC	
102	1	U16	MVE-748	
103	1	U17	MVN-2074	
104	1	U19	UMC5N	
105	1	U20	AT25040-10SC	
106	1	U21	AT45DB011-SC	
107	1	U22	AT29LV010A	

108	1	U23	AT49LV001N-90TC
109	1	X1	Xtal 12MHz
110	1	X2	Xtal 36MHz(SMD6035)
111	1	Y1	Xtal 36MHz(SMD 6x3.5x1.0mm)