#### 문서 번호 H651 - E001 MODEL NAME 미국향 PSU MODEL NO. MPS - H651 ISSUE 0

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NO	DRAW NO	품 명	PARTS NAME	DESCRIPTION	VENDOR	Q'TY	REMARKS
1	MPS-H651	PCB	MAIN PCB (REV-0)	FR4 양면 1.6t 2oz RoHS적용	하도전자	1EA	REV-0
2	MPS-H651	PCB	SUB2 PCB (REV-0)	FR4 양면 1.6t 2oz RoHS적용	하도전자	2EA	REV-0
3	MPS-H651	PCB	SUB3 PCB (REV-0)	FR4 양면 1.6t 2oz RoHS적용	하도전자	2EA	REV-0
4	SW1	CIRCUIT BREAKER	DCP31PSH200AMS	AC 250V/20A (1POLE)	대륙	1EA	PCB INSERT
5	SW2	CIRCUIT BREAKER	DCP31PSH300DMS	DC 65V/30A (1POLE)	대륙	1EA	PCB INSERT
6	FU1	FUSE	SR5	250V / 3.15A	SAVE FUSE	1EA	
7	FU2	FUSE	SR5	250V / 5A	SAVE FUSE	1EA	
8	CN1	TERMINAL BLOCK	BR1100M - 03P	11mm PITCH	비룡	1EA	COVER 포함
9	CN2	TERMINAL BLOCK	BR1100M - 02P	11mm PITCH	비룡	1EA	COVER 포함
10	CN3	D-SUB CONNECTOR	3W3S	FEMALE	GOLD CON	1EA	
11	FOR CN3	PIN	40A	FEMALE	GOLD CON	2EA	
12	FOR CN3	SUPPORT	4 - 40용 NUT	Hook	GOLD CON	2EA	
13	FOR CN3	SUPPORT	4 - 40용	Inch Support	GOLD CON	2EA	
14	CN4	CONNECTOR	5566 - 12P	4.2 * 5.5 mm PITCH	MOLEX	1EA	
15	CN6_A	CONNECTOR	5267 - 04A - X	2.5 PITCH	MOLEX	1EA	
16	CN5_A,5_B	CONNECTOR	5267 - 03A - X	2.5 PITCH	MOLEX	2EA	
17	L1	INDUCTOR	H651 - D001	LC - 10	삼원 엔지니어링	1EA	REV-0
18	L2,3	INDUCTOR	H651 - D002	LC - 15	삼원 엔지니어링	2EA	REV-0
19	L4	INDUCTOR	H651 - D003	H106 - 157A	삼원 엔지니어링	1EA	REV-0
20	L5	INDUCTOR	H651 - D004	H065 - 072A	삼원 엔지니어링	1EA	REV-0
21	L6,7,8	INDUCTOR	H651 - D005	BAR(6X20)	삼원 엔지니어링	3EA	REV-0
22	L9,10	INDUCTOR	H651 - D006	SN - 10 (IRON CORE)	삼원 엔지니어링	2EA	REV-0
23	MODULE1	POWER MODULE	PF1000A - 360	PFC 1000W (360V)	LAMBDA	1EA	
24	MODULE2	POWER MODULE	PAF600F280 - 24/KTH	700W	LAMBDA	1EA	
25	RY1,2	RELAY	RY - 24W - K	2 Form C	TAKAMISAWA	2EA	

문서 번호	H651 - E002
MODEL NAME	미국향 PSU
MODEL NO.	MPS - H651
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NO	DRAW NO	품 명	PARTS NAME	DESCRIPTION	VENDOR	Q'TY	REMARKS
26	HIC1	PWM CONTROLLER	MPC -494S	PWM CONTROLLOR	MYOUNG	1EA	
27	U1	SWITCHING REGULATOR	LM2596T - adj	150Khz / 3A (5 - lead TO - 220)	NATIONAL	1EA	
28	U3	REGULATOR I.C	KA 7815	15V / 1A (TO - 220)	FAIRCHILD	1EA	
29	PC1,2,3	PHOTO COUPLER	PC817 A or B	1-channal type	SHARP	3EA	
30	U2	SHUNT REGULATOR	KA431 AZ	TO-90 (PROGRAMMABLE SHUNT REGULATOR)	FAIRCHILD	1EA	
31	Q1	FET	FQPF50N06	N-chanel mos-fet (60V/31A , 22mΩ)	FAIRCHILD	1EA	TO - 220F
32	Q3,4	FET	IRF4905	P-chanel mos-fet (-55V/-74A , 0.02Ω)	I.R	2EA	
33	Q5,6	TR	KN2222A	40V/600mA	KEC	2EA	TO - 92
34	D4	DIODE	S20LC40U	Super Fast Recovery (400V/20A)	SINDENGEN	1EA	TO-3P
35	D7	DIODE	S30SC4M	Schottky Barrier Diode (40V/30A)	SINDENGEN	1EA	MTO-3P
36	D1	DIODE	SF20SC4	Schottky Rectifiers (SBD) 40V/20A	SHINDENGEN	1EA	FTO-220
37	D2	DIODE	D10SC4M	Schottky Rectifiers (SBD) 40V/10A	SHINDENGEN	1EA	ITO-220
38	D5,6	DIODE	HER103	High Efficiency Rectifier 200V/1A	RECTRON	2EA	DO-41
39	D8	DIODE	D1NS4	Schottky Rectifiers (SBD) 40V/1A	SINDENGEN	1EA	
40	TVS1	TVS	1.5KE440A	602V / 2.5A	FAGOR	1EA	
41	ZD5	ZENER DIODE	1N4747A	1W (20V)	TECHUNG	1EA	
42	ZD2	ZENER DIODE	1N4746A	1W (18V)	TECHUNG	1EA	
43	ZD6,7,8	ZENER DIODE	1N4742A	1W (12V)	TECHUNG	3EA	
44	ZD4	ZENER DIODE	1N4739A	1W (9.1V)	TECHUNG	1EA	
45	ZD1	ZENER DIODE	1N4737A	1W (7.5V)	TECHUNG	1EA	
46	ZD3	ZENER DIODE	1N4732A	1W (4.7V)	TECHUNG	1EA	
47	B1	BEAD	AMB 03S - N	BEAD - CORE	AMOTECH	1EA	
48	C2,5,8	CAP-MKP	AC275V / 1μF	PCX2 337 (23mm) , (25*12*22)	PILKOR	3EA	
49	C1,9	CAP - MKP	AC305V / 470nF	PCX2 337 (23mm) (25*8*17)	PILKOR	2EA	
50	C53,54	CAP	630V / 1uF	630V / 105	승우전자	2EA	

문서 번호	H651 - E003
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NO	DRAW NO	품 명	PARTS NAME	DESCRIPTION	VENDOR	Q'TY	REMARKS
51	C37,46	CAP - MPF	63V / 1uF	FILM CAP (PCMT366 12 105)	PILKOR	2EA	
52	C44	CAP-MYLAR	TN100-104J (2A104)	FILM(100V / 0.1 µF)	승우전자	1EA	
53	C45,51,52	CAP - MONO	SR 215 E 104 M	MONO104	AVX	3EA	
54	C3,4,12,13,14	CAP-CERAMIC	UL222 (Y1)	HC YE 2G 222 M ADT (Y1급)	NETRON TECH	5EA	
55	6,7	CAP-CERAMIC	UL102 (Y1)	HC YE 2G 102 M ADT (Y1급)	NETRON TECH	2EA	
56	C21,22,56,57,58,59,60,62,63,64,65	CAP-CERAMIC	1KV / 103	10mm (CK B 3A 103 KA)	삼원 파츠	11EA	
57	C29	CAP - CERAMIC	1KV / 102	5mm (CK B 3A 102 KA)	삼원 파츠	1EA	
58	C10,11,61	CAP - EL	TDA 2W VN 471 M	TDA 450V / 470uF	SAMYOUNG	3EA	(35ф X 50)
59	C15,16,23	CAP - EL	KXL 1V VB 332 M	KXL 35V / 3300uF 105℃	SAMYOUNG	2EA	(18φ X 35.1)
60	C20,38	CAP - EL	KXL 1V VB 102 M	KXL 35V / 1000uF 105℃	SAMYOUNG	2EA	(12.5¢ X 25)
61	C40,41	CAP - EL	KXL 1C VB 222 M	KXL 16V / 2200uF 105℃	SAMYOUNG	2EA	(12.5¢ X 25)
62	C43	CAP - EL	KXL 1C VB 102 M	KXL 16V / 1000uF 105℃	SAMYOUNG	1EA	(10¢ X 20)
63	C30,31,32	CAP - EL	KXL 1A VB 682 M	KXL 10V / 6800uF 105℃	SAMYOUNG	3EA	(16ф X 31.5)
64	C36	CAP - EL	KXL 1A VB 332 M	KXL 10V / 3300uF	SAMYOUNG	1EA	(12.5¢ X 25)
65	C26,27	CAP - EL	KMG 1H VB 470 M	KMG 50V / 47uF 105℃	SAMYOUNG	2EA	(6.3φ X 11)
66	C28,47,49,50	CAP - EL	KMG 1H VB 100 M	KMG 50V / 10uF 105℃	SAMYOUNG	4EA	(5φ X 11)
67	SH1,2	RESISTOR	MPR – 5W 5mΩ	SHUNT RESISTOR	HMR	2EA	
68	TH1,2	NTC	NTC 20D - 22	THERMISTOR	SAMKYUNG	2EA	
69	AS1,4	TNR	INR 20D 471 K	SURGE ABSOBER (300 Vrms)	AMOTECH	1EA	
70	AS2,3	TNR	INR 20D 681 K	SURGE ABSOBER (420 Vrms)	AMOTECH	2EA	
71	AS5	TNR	INR 14D 820 K	SURGE ABSOBER (50 Vrms)	AMOTECH	2EA	
72	PS1	POLAY SWITCH	RXE300	60V / 40A	RACHAM	1EA	
73	R1	RESISTOR	MOR 1W 470kΩ J	Matal Oxide Film Resistor	ABCO	1EA	
74	R32,33	RESISTOR	MOR 1W 4.7kΩ J	Matal Oxide Film Resistor	ABCO	2EA	
75	R20	RESISTOR	PSFR25 1/4W 27kΩ J	Matal Film Resistor	PILKOR	1EA	

# 문서 번호 H651 - E004 MODEL NAME 미국향 PSU MODEL NO. MPS - H651 ISSUE 0

## PART LIST

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NO	DRAW NO	품 명	PARTS NAME	DESCRIPTION	VENDOR	Q'TY	REMARKS
76	R10	RESISTOR	PSFR25 1/4W 20kΩ J	Matal Film Resistor	PILKOR	1EA	
77	R22,24,27,31	RESISTOR	PSFR25 1/4W 10kΩ J	Matal Film Resistor	PILKOR	4EA	
78	R18	RESISTOR	PSFR25 1/4W 8.2kΩ J	Matal Film Resistor	PILKOR	1EA	
79	R8	RESISTOR	PSFR25 1/4W 6.8kΩ J	Matal Film Resistor	PILKOR	1EA	
80	R23,26,30	RESISTOR	PSFR25 1/4W 4.7kΩ J	Matal Film Resistor	PILKOR	3EA	
81	R16	RESISTOR	PSFR25 1/4W 3.9kΩ J	Matal Film Resistor	PILKOR	1EA	
82	R9,21	RESISTOR	PSFR25 1/4W 3kΩ J	Matal Film Resistor	PILKOR	2EA	
83	R2	RESISTOR	PSFR25 1/4W 2kΩ J	Matal Film Resistor	PILKOR	1EA	
84	R25	RESISTOR	PSFR25 1/4W 1kΩ J	Matal Film Resistor	PILKOR	1EA	
85	R34	RESISTOR	PSFR25 1/4W 680Ω J	Matal Film Resistor	PILKOR	1EA	
86	R17	RESISTOR	PSFR25 1/4W 620Ω J	Matal Film Resistor	PILKOR	1EA	
87	R28,29	RESISTOR	PSFR25 1/4W 470Ω J	Matal Film Resistor	PILKOR	2EA	
88	R19	RESISTOR	PSFR25 1/4W 270Ω J	Matal Film Resistor	PILKOR	1EA	
89	R13	RESISTOR	PSFR25 1/4W 100Ω J	Matal Film Resistor	PILKOR	1EA	
90	R14	RESISTOR	PSFR25 1/4W 51Ω J	Matal Film Resistor	PILKOR	1EA	
91	R12	RESISTOR	PSFR25 1/4W 4.7Ω J	Matal Film Resistor	PILKOR	1EA	
92	VR1	VOLUM RESISTOR	3296W - 1 - 503 LF	50kΩ	BOURNS	1EA	
93	VR2,3,5	VOLUM RESISTOR	GF063 P1 T2 B 102K	1 kΩ	TOCOS	3EA	
94	VR4	VOLUM RESISTOR	GF063 P1 T2 B 101K	100Ω	TOCOS	1EA	
95		PAD 절연지	DR245P (TO - 220)	FOR U1,Q3,Q4	A – PAX	3EA	
96		TR BUSHING	3ф	FOR U1,Q3,Q4	A – PAX	3EA	

M	문서 번호 ODEL NAME	H651 - E005 미국향 PSU	PART LIST			작 성	검 토 승 인
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NO	DRAW NO	품 명	PARTS NAME	DESCRIPTION	VENDOR	Q'TY	REMARKS
97	MPS - H651	PCB	SUB-1 PCB	FR4 양면 1.6t 2oz (RoHS적용)	하도전자	1EA	REV - 0
98	CN6_B	CONNECTOR	5268- 05A - X	2.5 PITCH	MOLEX	1EA	
99	LED1 (AC)	LED	5Ø GREEN	5Ø	NEW LIGHT	1EA	
100	LED2 (DC)	LED	5Ø YELLOW	5Ø	NEW LIGHT	1EA	
101	LED3 (ALM)	LED	5Ø RED	5Ø	NEW LIGHT	1EA	
102	FOR LED1,2,3	LED HOLDER	PCB103	3Ø LED HOLDER	경상정밀	3EA	

#### 문서 번호 H651 - E006 MODEL NAME 미국향 PSU MODEL NO. MPS - H651 ISSUE 0

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NO	DRAW NO	품 명	PARTS NAME	DESCRIPTION	VENDOR	Q'TY	REMARKS
103	기구물	ASS'Y	H651 - B001	도면 참조	성남기업	1EA	REV - 0
104		COVER	H651 - B002	도면 참조	성남기업	1EA	REV - 0
105		COVER SILK	H651 - B003	도면 참조	성남기업	1EA	REV - 0
106		BASE	H651 - B004	도면 참조	성남기업	1EA	REV - 0
107		HEAT SINK - 1	H651 - B005	도면 참조	성남기업	1EA	REV - 0
108		HEAT SINK - 2	H651 - B006	도면 참조	성남기업	2EA	REV - 0
109		S/W BRACKET - 1	H651 - B007	도면 참조	성남기업	1EA	REV - 0
110		S/W BRACKET - 2	H651 - B008	도면 참조	성남기업	1EA	REV - 0
111		SIDE - L,R BRACKET	H651 - B009	도면 참조	성남기업	1EA	REV - 0
112		INSERT	H651 - B010	도면 참조	성남기업	1EA	REV - 0
113		HANESS	H651 - H001	도면 참조	I.S TECH	1SET	REV - 0
114		SCREW	SEMS 3 X 6 SUS	FOR MAIN PCB	태양공업	8EA	
115		SCREW	SEMS 3 X 6 SUS	FOR SUB_1 PCB ↔ COVER	태양공업	2EA	
116		SCREW	SEMS 3 X 6 SUS	FOR S/W ↔ S/W BRACET	태양공업	4EA	
117		SCREW	SEMS 3 X 8 SUS	FOR U1,D1,Q1,Q3,Q4	태양공업	5EA	
118		SCREW	SEMS 3 X 10 SUS	FOR D1	태양공업	1EA	
119		SCREW	SEMS 3 X 12 SUS	FOR D7	태양공업	1EA	
120		SCREW	BH 3 X 6 SUS	FOR HEATSINK	태양공업	6EA	
121		SCREW	FH 3 X 10 SUS	FOR BASE	태양공업	7EA	
122		SCREW	FH 3 X 6 SUS	FOR COVER	태양공업	4EA	
123		SCREW	FH 2.6 X 6 SUS	FOR COVER	태양공업	10EA	

#### AP2600H30F3 - RF Part BOM Rev1.0

No	Description	Part Number	Reference Number	Quantity	Manufacturer
1		18pF	C1,C2,C3,C10,C11,C13,C15,C16,C18,C19,C23,C24,C27,C28,C31,C32,C33,C34,C44,C45,C46,C53,C59,C60,C61,C62,C63,C64,C65,C66,C69,C70,C72,C73,C77,C78,C80,C81,C82,C83,C84,C85,C86,C87,C88,C90,C92,C94,C95,C96,C102,C103,C104,C105,C106,C109,C110,C112,C116,C117,C119,C120,C121,C122,C123,C124,C125,C126,C127,C128,C129,C130,C131,C132,C133,C134,C137,C140,C141,C142,C143,C144,C145,C146,C147,C148,C149,C150,C151,C156,C157,C158,C159,C161,C164,C165,C166,C167,C169,C172,C173,C174,C175,C176,C178,C179,C180,C182,C213,C214,C223,C224,C225,C230,C231,C232,C238,C239,C244,C244,C245,C248,C271,C72,C281,C287,C286,C367,C303,C364,C312,C312,C312,C312,C312,C312,C312,C312	148	
2	Chip Capacitor (1608)	100nF	C304,C310,C339,C340,C341,C345,C346,C347,C348,C357,C358,C359,C369,C379,C380,C397,C401,C402  C12,C17,C25,C29,C71,C79,C97,C111,C118,C138,C139,C162,C170,C177,C181,C193,	23	Murata
_	•	10.5	C204,C211,C215,C216,C219,C246,C381	_	
3	•	10nF	C48,C210,C321,C324,C334,C378,C395	7	
4	-	1nF	C135,C160,C168	3	
5 6		22nF 220pF	C136,C163,C171  C183,C190,C191,C192,C194,C195,C196,C197,C198,C201,C202,C203,C205,C206,C207,	17	
7	-	0.5	C208,C209		
7		2pF	C188,C189,C199,C200	4	
8		150nF 1uF	C212	1 2	
9	Chip Capacitor	TUF	C326,C399	2	
10	(2012)	1uF	C331	1	
11		12pF	C8,C9,C14,C21,C35,C36,C37,C67,C68,C74,C75,C76,C93,C98,C99,C100,C101,C107,C108,C113,C114,C115,C152,C153,C220,C226,C228,C229,C237,C241,C249,C250,C251,C252,C259,C260,C261,C262,C270,C273,C274,C275,C276,C277,C278,C279,C280,C284,C293,C294,C296,C297,C298,C299,C300,C301,C305,C314,C315,C318,C320,C329,C330,C335,C337,C342,C344,C349,C350,C351,C352,C353,C354,C355,C356,C360,C375,C376,C377,C383,C384,C385,C386,C388,C391,C392,C393,C404,C406,C408,C410	92	
12		0.7pF	C20,C221,C336	3	
13		2.2pF	C22	1	
14	High-Q Capacitor	1.5pF	C26	1	
15	(2012)	12F	C91	1	Johanson Tech.
16		5.6pF	C184,C185,C186,C187	4	
17	ľ	18pF	C217,C218	2	
18	ľ	3.0pF	C222,C338	2	
19	ľ	1.3pF	C227,C233,C242,C286,C307,C362	6	
20		1.0pF	C235	1	
21		10pF	C236	1	
22		1.2pF	C343	1	
23		100pF	C411	1	
24	High-Q Capacitor (B-Case)	c10pF	C234,C243,C291,C312,C366	5	Temex
25	High-V Capacitor	220nF/250V	C40,C42,C253,C254,C255,C256,C264,C265,C266,C267,C285,C287,C288,C290,C306,C308,C309,C311,C361,C363,C364,C365,C372	23	Johanson Dielectrics.
26		4.7uF/16V	C30	1	
27	Tantalum Capacitor	10uF/16V	C39,C47,C49,C50,C51,C52,C154,C155,C247,C257,C258,C268,C269,C292,C295,C313,C316,C325,C327,C328,C332,C333,C367,C368,C382,C387,C390,C394,C396,C398,C400,C405,C407,C409	34	AVX
28	ľ	10uF/50V	C41,C403	2	
29	Electrolytic	330uF/16V	C43,C322,C323,C373,C374	5	
	Capacitor	470uF/50V	C317,C319,C370,C371,C389	5	Daewoo

31	Thermistor (1608)	40	RT1,RT2,RT3,RT4,RT5	5	Expan Tech.
32		18	R1	1	
33		300	R2,R3,R10,R11,R92,R93,R101,R102	8	
34		1k	R4,R5,R134,R143,R162,R176,R177,R179,R181,R183,R186,R188,R191,R209,R212, R216,R217	17	
35		33	R12,R41,R59,R91,R100,R133,R142,R161	8	
36		30	R17	1	
37		180	R18,R19	2	
38		2.2	R20,R205,R206	3	
39		100	R21,R137,R153,R154,R156,R157,R168,R170,R178,R182,R187,R192,R207,R213	14	
40		10k	R31,R32,R39,R166,R171,R174,R185,R190,R211	9	
41		11k	R33	1	
42		1.5k	R34	1	
43	Chip Resistor	2k	R36	1	
44	(1608)	680	R44,R48,R88,R89,R167	5	
45		20k	R45,R90	2	
46		0	R46,R47,R126,R127,R158,R159,R163	7	
47		270	R49,R50,R51,R52	4	
48		12	R53,R56,R65,R94,R97,R103	6	
49		430	R54,R55,R57,R58,R60,R61,R95,R96,R98,R99	10	
50		15	R62,R63,R64	3	
51		51	R86,R87,R135,R136	4	
52		390	R129,R138	2	
53		56	R130,R131,R139,R140	4	
54		24	R132,R141,R160,R164,R165	5	
55		10	R208	1	Walsin
56		75	R152,R155	2	
57		75	R6,R7,R8,R9	4	
58		220	R13,R14,R15,R16	4	
59		51	R24,R25,R79,R226	4	
60		5.1	R26,R76,R80,R83	4	
61		910	R27,R28,R77,R78,R81,R82,R84,R85	8	
62		300	R42,R43	2	
63		1.1k	R66,R71,R117	3	
64		20k	R68,R69,R72,R73,R74,R75,R111,R112,R118,R119,R120,R121,R123,R124,R146,R147, R150,R151,R214,R215	20	
65	Chip Resistor	180	R104,R106	2	
66	(2012)	30	R105	1	
67	, , ,	24	R107,R218,R219,R220,R221,R222,R223,R224,R225	9	
68		33	R108	1	
69		1k	R109,R203	2	
70		0	R110,R115,R122,R204,R227,R236	6	
71		2.4k	R113	1	
72		10k	R114,R169	2	
73		510	R145,R149,R198,R229,R233	5	
74		11k	R195	1	
75		1.5k	R196	1	
76 77	Chip Resistor	2k d0	R199,R200,R201,R202,R230,R231,R234,R235,R237,R238,R239,R240 R22,R23,R40,R128	12 4	
	(5025)				
78	Variable	v5k	R35,R197,R228,R232	4	Duran
79	Resistor	v10k	R67,R70,R116,R125,R144,R148	6	Burns
80		v1k	R175,R180,R184,R189,R210	5	
81 82	50Ohm Term.	RFP-100200A25Z50	R172,R173	2	Anaren
82		C100N50Z4	R193,R194	2	

83		SS24	D2,D11,D12	3	
84		1N5819	D3	1	
85	Schottky Diode	BAT54CLT1	D4	1	FairChild
86		SM5819	D10	1	
87	LED	1608 Blue	D9	1	Device Mart
88	Pin Diode	BAP64-02	D13,D14,D15,D16,D17,D18,D19,D20	8	Philips
89	2.002	5.6nH	L1,L6,L8,L10,L12,L13	6	
90		12nH	L2,L4,L7,L9,L11,L14	6	
91	Chip Inductor	6.8nH	L3	1	
92	(2012)	22nH	L15,L16	2	Johanson Tech.
93		100nH	L17,L18,L20,L21	4	
94		220nH	L19,L22	2	
95		SC5845D-22uH	L5	1	
96	Power Inductor	SC5845D-47uH	L23,L24	2	Kwangsung Electronics
97	Toroidal Inductor	100uH/3A	L25,L26	2	
98	GaAs MESFET	MFA0920	Q1,Q2,Q11	3	Mitsubishi
99		MGFS45B2527B	Q12	1	
100	LD-MOSFET	MRF7S27130	Q3,Q4,Q8,Q10,Q14	5	FreeScale
101	PNP BJT	KTA1504S	Q5,Q6,Q7,Q9,Q13	5	KEC
102		BG14A	U3,U16,U26,U29	4	
103	MMIC Gain Block	BT05CV	U4,U20,U32	3	Berex
104		BG13D	U52,U57	2	
105	Directional	XC2500E-10S	U7,U24,U27	3	Anaren
106	Coupler	CSDZ-5N-2.5G	U66,U69	2	Merrimac
107	Hybrid Coupler	XC2500A-03S	U67,U68	2	Anaren
108		MC7812	U10,U87	2	On-Semi
109	Linear Regulator	MC7805	U42,U72,U82,U88	4	
110		LP2992AIM5-5.0	U12	1	National S.C.
111		LP2985AIM5-4.0	U75,U83	2	
112		LT1936	U11	1	Linear Technology
113	Switching Regulator	LM2672-ADJ	U71	1	National S.C.
114		LM2596S-ADJ	U81	1	manorial o.o.
115	Isolator	NI245CH	U79,U90	2	Nanowave
116		IL05AL2350AAE	U6,U65,U78,U89	4	Patron
117	LPF	LFCN-2750	U50	1	Mini-Circuits
118	RF SAW BPF	F2481	U51,U56	2	ITF
119	Gate	MC74HC1G08	U15,U38	2	On-Semi
120		MC74HC1G02	U55	1	
121	RF SPDT Switch	HMC349MS8GE	U5,U28	2	Hittite
122	Voltage Inverter	MAX871	U13,U73,U85	3	Maxim IC
123	Phase Shifter	GSV404P	U17,U18,U19,U30,U31,U33	6	Soshin
124	OP Amp	LM8262	U22,U36,U39,U47,U59,U74,U86	7	National S.C.
125	Log Amp	AD8362ARM	U35,U45,U46,U58	4	Analog Device
126	Analog Switch	NLAS4599	U37,U76,U84	3	On-Semi
127	DA Converter	DAC102S085	U40,U41	2	National S.C.
128	Mixer	ML402	U48	1	W & J
129	PLL Synthesizer	KSP-2350W	U49	1	Kwangsung Electronics
130	Digital Attenuator	MAADSS0008_V1	U53,U54	2	MA-Com
131	Temp. Sensor	LM50	U60	1	National S.C.
132	MCU	PIC16F886	U61	1	Microchips
133	X-tal Resonator	20MHz	U62	1	Device Mart
134	Tact Switch	ITS-1187	U63	1	Device Mait

#### AP2600H30F3 - Control Part BOM Rev1.0

No	Description	Part Number	Reference Number	Quantity	Manufacturer
1	011 0 11	10nF	C1,C6,C7,C8,C16	5	
2	Chip Capacitor (1608)	100nF	C2,C3,C15	3	Murata
3	(1000)	18pF	C4,C5	2	
4	High-Q Capacitor	H100pF	C9,C10	2	Johanson Tech.
5	High-V Capacitor	200V/220nF	C11	1	Johanson Dielectrics
6	Tantalum Capacitor	16V/4.7uF/SMA	C12,C13,C14	3	AVX
7	Shift Register	74HC595	Q1	1	On-Semi
8	MCU	PIC16F887	Q2	1	Microchips
9	LED	1608 BLUE LED	Q3,Q4	2	Device Mart
10	Schottky Diode	BAT54CLT1	Q5,Q7,Q11	3	Fairchild
11	DA Converter	DAC102S0851	Q6	1	National S.C.
12	Gate	MC74HC1G02	Q8,Q9	2	
13	Gale	MC74HC1G08	Q10	1	On-Semi
14	Regulator	LM7812	Q12	1	On Sein
15	negulator	LM7805	Q13	1	
16		1K	R1,R5,R9,R12	4	
17	Chip Resistor	2K	R2,R6,R10,R13	4	Walsin
18	Chip nesistor	470	R3,R4	2	waisiii
19		1	R7,R8	2	
21		530150210	U1,U3,U6,U7,U10,U12	6	
22	Molex Connector	530150510	U2,U9,U11	3	Molex
24		530150310	U5,U8	2	
23	X-tal Resonator	CRYSTAL/20MHz	U4	1	Device Mart

### WiBro&WiMax\_FEU2\_V1.0\_\_\_2008/08/06

No.	Quantity	Description	WiBro&WiMax_FEU2_V1.0 Reference	_2008/08/06  Part Number	Vendor
1		-			
	5	CAP	C2,C5,C8,C13,C17 C3,C4,C6,C18,C21,C22,	10 uF/10V/3528/Tantal	AVX
2	8	CAP	C23,C24	10 nF/X7R/1005	삼성전기
3	1	CAP	C9	470 pF/C0G/1005	삼성전기
4	14	CAP	C11,C15,C26,C35,C37,C40, C43,C48,C49,C56,C59,C72, C73,C81	1 nF/X7R/1005	삼성전기
5	1	CAP	C12	68 pF/C0G/1005	삼성전기
6	17	CAP	C16,C27,C33,C36,C38,C41, C47,C52,C55,C58,C70,C74, C80,C84,C87,C94,C95	100 nF/X7R/1005	삼성전기
7	2	CAP	C20,C19	22 nF/X7R/1005	삼성전기
8	2	CAP	C88,C96	100 pF/C0G/1005	삼성전기
9	2	CAP	C77,C97	8.2 pF/C0G/1005	삼성전기
10	23	CAP	C28,C29,C31,C32,C42, C45,C46,C50,C51,C61,C63, C64,C65,C66,C68,C69,C71, C75,C78,C79,C85,C93,C99	18 pF/C0G/1005	삼성전기
11	2	CAP	C54,C44	36 pF/C0G/1005	삼성전기
12	1	CAP	C60	0.3 pF/C0G/1005	삼성전기
13	1	CAP	C62,L1	0.5 pF/C0G/1005	삼성전기
14	1	CAP	C30	0.75 pF/C0G/1005	삼성전기
15	1	CAP	C67	2 pF/C0G/1005	삼성전기
16	3	CAP	C39,R91,R95	3 pF/C0G/1005	삼성전기
17	1	CAP	C10	5.6 pF/C0G/1005	삼성전기
18	4	CAP	C57,C86,C90,C98	47 nF/X7R/1005	삼성전기
19	16	CAP.EMI	C1,C7,C14,C25,C34,C82, C83,C105,C109,C110,C111, C112,C113,C114,C115,C118	NFM21PC474	Murata
20	2	Bead	L2,L3	CIM21J121NE	삼성전기
21	2	Inductor	L4,L22	CDRH2D14-4R7	삼성전기
22	1	Inductor	L18	1 nH/1005	삼성전기
23	1	Inductor	L5	1.8 nH/1005	삼성전기
24	1	Inductor	L8	3.9 nH/1005	삼성전기
25	1	Inductor	L13	4.7 nH/1005	삼성전기
26	1	Inductor	L17	10 nH/1005	삼성전기
27	6	Resistor	R1,R2,R6,R8,R34,R97	1k/5%/1005	삼성전기
28	2	Resistor	R51,R55	0/5%/1005	삼성전기
29	1	Resistor	R10	30k/5%/1005	삼성전기
30	1	Resistor	R11	200k/5%/1005	삼성전기
31	1	Resistor	R12	33k/5%/1005	삼성전기
32	1	Resistor	R13	91/5%/1005	삼성전기
33	2	Resistor	R14,R15	390/5%/1005	삼성전기
34	1	Resistor	R16	200/5%/1005	삼성전기
35	8	Resistor	R17,R20,R27,R30,R32,R50, R60,R61 R18,R23,R26,R28,R36,R39,	4.7/5%/1005	삼성전기
36	10	Resistor	R44,R54,R56,R66	33/5%/1005	삼성전기
37	6	Resistor	R19,R33,R40,R42,R48,R52	51/5%/1005	삼성전기
38	2	Resistor	R22,R45	15/5%/1005	삼성전기
39	4	Resistor	R24,R25,R43,R47	330/5%/1005	삼성전기
40	12	Resistor	R29,R35,R37,R38,R41,R63, R70,R71,R72,R92,R93,R96	10k/5%/1005	삼성전기
41	4	Resistor	R31,R64,R87,R90	2k/5%/1005	삼성전기
42	2	Resistor	R94,R98	8.2k/5%/1005	삼성전기
43	3	Res.Var.	VAR1,VAR2	44WR10KT7	BI Tech.

44	18	NC	L1,L6,L7,L9,L10,L11, L14,L16,R3,R4,R5,R7,R49, R53,R57,R58,C76,C53	NC	NC
45	2	Atten.	A1,A4	D10AA30Z4	Anaren
46	3	Atten.	A2,A3,A5	PAT1220C10DB	SUSUMU
47	3	Diode	D1,D2,D3	SP0503BAHT	Littelfuse
48	1	Connector	U1	HEADER10	Molex
49	1	LDO	U2	MIC5209-5.0BM	Micrel
50	1	LDO	U3	MIC5219-3.3BM5	Micrel
51	1	EEPROM	U4	EPM3064ATI44-10	ALTERA
52	1	Connector	U5	90130-3214	Molex
53	9	EMI Filter	U6,U9,U10,U11,U12,U29, U36,U37,U38	EMIL21C270SAAE	Murata
54	1	DC/DC	U7	LM3224MM-ADJ	National Semi.
55	1	Diode	U8	BAT54C	FAIRCHILD
56	1	Circulator	U23	ADC250CE	ADMOTECH
57	1	Circulator	U13	ADC250ACE	ADMOTECH
58	6	Switch	U14,U17,U18,U22,U24,U32	HMC349LP4C	Hittite
59	2	Switch	U15,U26	HMC484MS8G	Hittite
60	2	ADC Driver	U16,U28	AD8139ARD	Analog Devices
61	2	Switch	U19,U21	ADG859YRYZ	Analog Devices
62	1	LNA	U20	CL2702	RFHIC
63	1	LNA	U25	LCL2712	RFHIC
64	2	Detector	U39,U40	AD8319	Analog Devices
65	1	Comparator	U30	TLV3502AID	TI

## APOLLEX-2B\_WiMAX\_RFB(Lower)

Item	Quantity	품목	Reference	Part Number	Vendor
1	4	CAP	C1,C70,C82,C95	22 pF/X7R/1608	삼성전기
2	6	CAP	C3,C11,C36,C46,C74,C84	68 pF/X7R/1608	삼성전기
3	9	T.CAP	C4,C18,C19,C30,C51,C54, C80,C86,C89	10 uF/10V/3528/Tantal	AVX
4	21	CAP	C5,C10,C13,C14,C16,C22, C25,C27,C32,C33,C35,C49, C50,C52,C64,C65,C68,C79, C83,C85,C87	1 uF/X5R/1608	삼성전기
5	3	CAP	C7,C34,C71	1.2nF/X5R/1608	삼성전기
6	12	CAP	C8,C17,C23,C26,C37,C44, C48,C58,C59,C62,C73,C78	1 nF/X5R/1608	삼성전기
7	2	CAP	C9,C29	4.7 uF/10V/3528/Tantal	AVX
8	3	CAP	C12,C31,C55	470 pF/X7R/1608	삼성전기
9	3	CAP	C20,C21,C63	10 nF/X5R/1608	삼성전기
10	1	CAP	C24	56nF/X5R/1608	삼성전기
13	1	CAP	C116	1uF/X5R/1608	삼성전기
14	1	CAP	C117	33nF/X5R/1608	삼성전기
15	1	CAP	C39	1.2 pF/X7R/1608	삼성전기
16	6	CAP	C40,C42,C43,C75,C92,C582	18 pF/X7R/1608	삼성전기
17	6	CAP	C41,C57,C81,C90,C91,C122	100 pF/X7R/1608	삼성전기
18	2	CAP	C56,C61	4.7 nF/X5R/1608	삼성전기
19	1	CAP	C60	2.7 pF/X7R/1608	삼성전기
20	1	CAP	C93	1uF/X5R/1608	삼성전기
21	1	CAP	C94	10 uF/16V/X5R/2012	삼성전기
22	4	CAP	C125,C128,C129,C132	0.1 uF/X5R/1608	삼성전기
23	4	CAP	C126,C127,C130,C131	10 pF/X7R/1608	삼성전기
25	3	Inductor	L1,L6,L9	47 nH/1608	삼성전기
26	4	BEED	L2,L5,L8,L10	CIM21J121NE	삼성전기
27	2	Inductor	L3,L4	2.2 nH/1608	삼성전기
28	1	Inductor	L7	3.9 nH/1608	삼성전기
11	1	Resistor	R57	56/5%/1608	삼성전기
12	1	Resistor	R58	110/5%/1608	삼성전기
29	1	Resistor	R1	3/5%/1608	삼성전기
30	4	Resistor	R2,R3,R26,R500	0/5%/1608	삼성전기
31		Resistor	R16	82/5%/1608	삼성전기
32	7	Resistor	R4,R5,R6,R7,R17,R21,R33	100/5%/1608	삼성전기
33	3	Resistor	R8,R27,R35	51/5%/1608	삼성전기
34	3	Resistor	R9,R10,R11	24.9/5%/1608	삼성전기
35	2	Resistor	R30,R12	10k/5%/1608	삼성전기
36	1	Resistor	R15	10/5%/1608	삼성전기

37	2	Resistor	R19,R18	120/5%/1600	사서저기
			·	430/5%/1608	삼성전기
38	1	Resistor	R20	30k/5%/1608	삼성전기
39	2	Resistor	R25,R22	4.99k/5%/1608	삼성전기
40	2	Resistor	R24,R23	200/5%/1608	삼성전기
41	3	Resistor	R34,R65,R67	10/5%/1608	삼성전기
42	3	Resistor	R62,R63,R64	330/5%/1608	삼성전기
43	1	Resistor	R66	10k/5%/1608	삼성전기
44	15		C2,C15,R28,R29, C38,C45,R46,R47,C47, C72,C76,C77,C581,R502,R503	NC	
45	2	Resistor	R13,R14	91/5%/1608	삼성전기
24	4	CAP.EMI	C6,C28,C53,C88	NFM21PC474	Murata
46	2	Diode	D2,D1	KDS120_USM	KEC
47	2	LDO	U19,U2	MIC5209-5.0YM	Micrel
48	1	DAC	U3	LTC2624IGN#PBF	Linear Tech.
49	4	EMI Filter	U4,U11,U12,U13	NFA31GD1011014D	Murata
50	4	Socket	U5,U10,U21,U28	HS083020	Human 전자
51	2	Splitter	U8,U42	SCN2-27+	MiniCircuits
52	1	BPF	U9	F4C2395-33	CIJ
53	1	LDO	U14	MIC5209-3.3YM	Micrel
54	2	Digital Atten	U31,U15	HMC271LP4E	Hittite
55	1	LNA	U16	CL2702	RFHIC
56	3	TR	U17,U34,U43	ADL5541	Analog Devices
57	2	BPF	U35,U18	F4D2535-66	CIJ
58	2	LPF	U25,U20	LFCN800+	MiniCircuits
59	1	Mixer	U22	LT5527EUF#PBF	Linear Tech.
60	1	VGA	U23	AD8370AREZ	Analog Devices
61	1	Transformer	U24	TC2-1T+	MiniCircuits
62	4	LPF	U26,U27,U29,U30	LFCN400+	MiniCircuits
63	1	Coupler	U33	1P610S	Anaren
64	1	LDO	U36	MIC39101-5.0YM	Micrel
65	1	Modulator	U37	ADL5373	Analog Devices
66	1	PLL	U39	ADF4154BCPZ	Analog Devices
67	1	VCO	U40	FTHV4-3(80MHz)	Fine Tech.
68	1	Transformer	U41	TC1-1T+	MiniCircuits
69	1	VCO	U41	CVCO55BE-2300-2450	Crystek
70	1	OR Gate	U137	SN74LVC2G32	TI

	00EL NAME	100 0011	DOLL ED4		0.114.145	ı — —					
M	ODEL. NAME	ICS CONT	ROLLER1	DC	C.NAME		Part	IIST		SHEET	1
										DATE	2008.10.09
NUM		규격	단위	원단위수	제조사			NUM		CHA	ANGED
1	CAPACITOR	CL10B104KBNC	0.1uF	37	SAMSUNG	C9	C10	C11	C12		
						C13	C16	C18	C19		
						C20	C21	C28	C29		
						C30	C31	C32	C33		
						C34	C35	C36	C37		
						C38	C39	C40	C41		
						C42	C43	C44	C45		
						C46	C47	C48	C49		
						C50	C51	C52	C53		
						C54					
2	CAPACITOR	CL10B102KBNC	1nF	2	SAMSUNG	C14	C15				
3	CAPACITOR	CL21A106KPFNNNE	10uF	2	SAMSUNG	C25	C26				
4	CAPACITOR	TAJB106M016RNJ	10uF	13	SAMSUNG	C1	C2	C3	C4		
						C5	C6	C7	C8		
						C17	C22	C23	C24		
						C27					
5	CAPACITOR	SC1H106M05005	10uF	2	SAMWHA	C55	C56				
6	CAPACITOR	CL10B104KBNC	0.1uF	55	SAMSUNG	DC1	DC2	DC3	DC4		
						DC5	DC6	DC7	DC8		
						DC9	DC10	DC11	DC12		
						DC13	DC14	DC15	DC16		
						DC17	DC18	DC19	DC20		
						DC21	DC22	DC23	DC24		
						DC25	DC26	DC27	DC28		
						DC29	DC30	DC31	DC32		
						DC33	DC34	DC35	DC36		
						DC37	DC38	DC39	DC40		
						DC41	DC42	DC43	DC44		
						DC45	DC46	DC47	DC48		
						DC49	DC50	DC51	DC52	4	
						DC53	DC54	DC55		_∕ <b>/</b> ii	rPoint
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MC	DDEL. NAME	ICS CONT	ROLLER1	DC	C.NAME		Parl	list		SHEET	2
		•		•		•				DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CH	ANGED
7	RESISTOR	RC1608F302CS	3K_1%	1	SAMSUNG	R45					
8	RESISTOR	RC1608F2871CS	2.87K	1	SAMSUNG	R1					
9	RESISTOR	RC1608F113CS	11K_1%	1	SAMSUNG	R49					
10	RESISTOR		500Ω_1%	12	SAMSUNG	R133	R134	R135	R136		
						R137	R34	R35	R36		
						R37	R38	R39	R138		
11	RESISTOR	RC1608F202CS	2K_1%	1	SAMSUNG	R128					
12	RESISTOR	RC1608J101CS	100Ω	2	SAMSUNG	R70	R165				
13	RESISTOR	RC1608J103CS	10K	53	SAMSUNG	R2	R3	R4	R5		
						R10	R11	R12	R13		
						R14	R15	R16	R17		
						R18	R19	R20	R21		
						R22	R23	R24	R25		
						R26	R27	R28	R29		
						R30	R31	R65	R68		
						R71	R72	R75	R77		
						R80	R82	R85	R86		
						R89	R92	R93	R97		
						R100	R102	R104	R105		
						R106	R110	R114	R117		
						R119	R121	R161	R162		
						R168					
14	RESISTOR	RC1608J102CS	1K	8	SAMSUNG	R48	R54	R59	R74		
						R94	R111	R164	R167		
15	RESISTOR	RC1608J203CS	20K	2	SAMSUNG	R53	R166				
16	RESISTOR	RC1608F273CS	27K_1%	1	SAMSUNG	R127					
17	RESISTOR	RC1608F563CS	56K_1%	1	SAMSUNG	R58					
18	RESISTOR	RC1608F393CS	39K_1%	1	SAMSUNG	R50					
19	RESISTOR	RC1608F333CS	33K_1%	1	SAMSUNG	R57					
20	RESISTOR	RC1608J103CS	10K	1	SAMSUNG	R56				- 4	
21	RESISTOR	RC1608J330CS	33Ω	10	SAMSUNG	R6	R7	R8	R9	-Ai	rPoint
						R51	R55	R69	R81	7	T OILL
						R101	R118				

M	ODEL. NAME	ICS CONT	ROLLER1	DC	C.NAME		Part	list		SHEET	3
				•		•				DATE	2008.10.0
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CH	ANGED
22	RESISTOR	RC1608J000CS	0Ω	3	SAMSUNG	R108	R109	R124			
23	RESISTOR	RC1608F2492CS	24.9K_1%	1	SAMSUNG	R95				1	
24	RESISTOR	CS06JTFVR050	0.05Ω	1	RARA	R88				1	
25	RESISTOR	RP164PJ330CS	33Ω array	11	SAMSUNG	RN1 RN5	RN2 RN6	RN3 RN7	RN4 RN8		
						RN9	RN10	RN11			
26	DIODE	SP0503BAHT	SP0503BAHT	1	LITTLEFUSE	D1				1	
27	BEAD	HU-1M3216-121JT	FB_3216	3	CTC	L4	L8	L9			
28	BEAD	CIM21J121NE	FB_2012	6	SAMSUNG	L1 L6	L2 L7	L3	L5		
29	INDUCTOR	CDRH2D14-4R7	4.7uH	1	SUMIDA	L10				1	
30	TR	KTN2222S	KTN2222S	2	KEC	Q1	Q2			1	
31	LED		LED	3		LED1	LED2	LED3		1	
32	CONNECTOR	USB_B_TYPE_RA	USB_B_CON	1		J8				1	
33	CONNECTOR	HEADER7X2_RA	HEADER7X2_RA	1	MOLEX	J4					
34	CONNECTOR	MOLEX_6P_RA	MOLEX_6P_RA	2	MOLEX	J3	J10				
35	CONNECTOR	53259_0817	53259_0817	1	MOLEX	J6					
36	CONNECTOR	HP087020	HP087020 (MALE)	2	HUMAN	J1	J7				
37	CONNECTOR	BOX_HEADER_60_RA	BOX_HEADER_60_RA	1	MOLEX	J9					
38	CONNECTOR	BOX_HEADER_16_RA	BOX_HEADER_16_RA	1	MOLEX	J2					
39	IC	MIC29152BU	MIC29152BU	2	MICREL	U1	U2				
40	IC	MIC49150YMM	MIC49150YMM	1	MICREL	U3					
41	IC	MIC5239-1.8YS	MIC5239-1.8YS	1	MICREL	U4					
42	OCS	OSC-25MHz	OSC-25MHz	1	SUNNY	U5					
43	IC	SN74LVC1G14	SN74LVC1G14	1	TI	U6					
44	IC	SP3223EEA	SP3223EEA	4	SPIEX	U7	U9	U12	U15		
45	IC	M25P40-VM6TP	M25P40-VM6TP	1	ST	U8					
46	IC	EP2C5Q208C8	EP2C5Q208C8	1	ALTERA	U10				]	
47	IC	TMS320F2812PGFA	TMS320F2812PGFA	1	TI	U11					
48	IC	CP2102-GM	CP2102-GM	1	SILAB	U13				4	
49	IC	MAX811SEUS_T	MAX811SEUS_T	1	MAXIM IC	U14				<b>√</b> li	rPoin
50	IC	TMP36	TMP36	1	ANALOG	U16				1	0111
51	IC	MAX4073AXK-T	MAX4073AXK-T	1	MAXIM IC	U14					

MC	DDEL. NAME	ICS CONT	ROLLER1	DO	C.NAME		Part	list		SHEET	4
		•				•				DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CHA	NGED
52	IC	IS61LV12816L-10TLI	IS61LV12816L-10TLI	1	ISSI	U18					
53	CAPACITOR	N.C	N.C	2		C57	C58				
54	RESISTOR	N.C	N.C	54		R32	R40	R41	R46	1	
						R47	R60	R61	R62		
						R63	R64	R66	R67		
						R73	R76	R78	R79		
						R84	R90	R96	R98		
						R99	R107	R112	R113		
						R115	R116	R120	R122		
						R123	R141	R142	R143		
						R144	R145	R146	R147		
						R148	R149	R150	R151		
						R152	R153	R154	R155		
						R156	R157	R158	R159		
						R160	R87	R83	R91		
						R103	R52				
55	TR	KTA1552T	N.C	1		Q3					
										Air	Point

M	ODEL. NAME	ICS CONT	TROLLER2	DO	C.NAME	Part list			SHEET	5	
										CHA	ANGED
MUV	품명	규격	단위	원단위수	제조사		REF	NUM			
1	CAPACITOR	CL10B104KBNC	0.1uF	6	SAMSUNG	C2 C6	C3 C7	C4	C5		
2	CAPACITOR	TAJB106M016RNJ	10uF	1	AVX	C1					
3	RESISTOR	RC1608J103CS	10K	1	SAMSUNG	R25					
4	RESISTOR	RC1608J102CS	1K	17	SAMSUNG	R20 R24 R29	R21 R26 R30	R22 R27 R31	R23 R28 R32		
						R33 R37	R34	R35	R36		
5	CONNECTOR	HP087020	HP087020(FEMALE)	2	휴먼전자	J1	J2				
6	IC	KTN2222S	KTN2222S	6	KEC	Q1 Q5	Q2	Q3	Q4		
7	LED	LED	LED3P	3	•	D1	D2	D3			
8	SW	SW	SW	1		SW1					
9	N.C	N.C	N.C	6		U1 U6	U3 U7	U4	U5		



M	ODEL. NAME	FRONT	BOARD	DO	C.NAME		Par	t list	SHEET	6
									CHAN	GED
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		
1	CONNECTOR	HIF3FB_60DA-2.54DSA	BOX HEADER SOCKET	1	HRS	J12				
2	CONNECTOR	90130_1220	9130_1220	1	MOLEX	J14			]	
3	CONNECTOR	90130_1212	90130_1212	1	MOLEX	J6				
4	CONNECTOR	90130_1214	90130_1214	1	MOLEX	J13				
5	CONNECTOR	90130_1210	90130_1214	1	MOLEX	J5				
6	CONNECTOR	MOLEX_2P_ST_2.54	MOLEX_2P_ST	2	MOLEX	J11	J17		]	
7	CONNECTOR	MOLEX_5P_ST_2.54	MOLEX_5P_ST	1	MOLEX	J10				
8	CONNECTOR	MOLEX_4P_ST_2.54	MOLEX_4P_ST	1	MOLEX	J18			]	
9	CONNECTOR	MOLEX_3P_ST_2.54	MOLEX_3P_ST_2.54	1	MOLEX	J19			]	
									Air	oin
									7	CIII

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M	ODEL. NAME	SNM	P	D	OC.NAME		Part	list		SHEET	1
										DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CHA	ANGED
1	CAPACITOR	CL10B104KBNC	0.1uF	27	SAMSUNG	C4	C5	C7	C8		
						C9	C16	C32	C34		
						C51	C52	C53	C54		
						C55	C56	C57	C58		
						C59	C60	C75	C77		
						C79	C80	C83	C84		
						C86	C92	C94			
2	CAPACITOR	CL10C101JBNC	100pF	4	SAMSUNG	C112	C113	C114	C115		
3	CAPACITOR	CL10B103KBNC	10nF	1	SAMSUNG	C18					
4	CAPACITOR	CL10C120JBNC	12pF	2	SAMSUNG	C24	C27				
5	CAPACITOR	CL10B105KANN	1uF	3	SAMSUNG	C1	C17	C36			
6	CAPACITOR	CL10C200JBNC	20pF	2	SAMSUNG	C25	C26				
7	CAPACITOR	CL10C221JBNC	220pF	3	SAMSUNG	C112	C13	C14			
8	CAPACITOR	CL10B104KBNC	0.1uF	104	SAMSUNG	DC1	DC2	DC3	DC4		
						DC5	DC6	DC7	DC8		
						DC9	DC10	DC11	DC12		
						DC13	DC14	DC15	DC16		
						DC17	DC18	DC19	DC20		
						DC21	DC22	DC23	DC24		
						DC25	DC26	DC27	DC28		
						DC29	DC30	DC31	DC32		
						DC33	DC34	DC35	DC36		
						DC37	DC38	DC39	DC40		
						DC41	DC42	DC43	DC44		
						DC45	DC46	DC47	DC48		
						DC49	DC50	DC51	DC52		
						DC53	DC54	DC55	DC56		l
						DC57	DC58	DC59	DC60	l	l
						DC61	DC62	DC63	DC64		
						DC65	DC66	DC67	DC68	- 1	_
						DC69	DC70	DC71	DC72	_∕ <b>/</b> ii	rPoint
						DC73	DC74	DC75	DC76	1	TOIL
						DC77	DC78	DC79	DC80		

M	ODEL. NAME	SNM	P	D	OC.NAME		Part	list		SHEET	2
				-						DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CH	ANGED
						DC81	DC82	DC83	DC84		
						DC85	DC86	DC87	DC88		
						DC89	DC90	DC91	DC92		
						DC93	DC94	DC95	DC96		
						DC97	DC98	DC99	DC100		
						DC101	DC102	DC103	DC104		
9	CAPACITOR	CL21A106KPFNNNE	10uF	4	SAMSUNG	C12	C35	C43	C48		
10	CAPACITOR	C2012X5R0J226M	22uF	3	TDK	C40	C42	C61			
11	CAPACITOR	CL31A106KOHNNNE	10uF	2	SAMSUNG	C37	C38				
12	CAPACITOR	GRM32ER60J107	100uF	1	MURATA	C49					
13	CAPACITOR	SC1H106M05005	10uF	2	SAMWHA	C95	C96				
14	CAPACITOR	EECS0HD334V	EECS0HD334V	1	PANASONIC	C2					
15	CAPACITOR	TCSCS1C106MA	10uF	17	SAMSUNG	C37	C6	C10	C15		
						C19	C20	C21	C22		
						C23	C29	C30	C31		
						C39	C41	C45	C62		
						C63					
16	CAPACITOR	10TPE330M	330uF	2	SANYO	C28	C47				
17	RESISTOR	RP164PJ330CS	33Ω	12	SAMSUNG	RN1	RN2	RN3	RN4		
						RN5	RN6	RN7	RN8		
						RN9	RN10	RN12	RN13		
18	RESISTOR	RC1608J000CS	0Ω	3	SAMSUNG	R4	R99	R203			
19	RESISTOR	RC1608F1R0CS	1Ω	1	SAMSUNG	R101					
20	RESISTOR	RC1608F1211CS	1.21K_1%	1	SAMSUNG	R164					
21	RESISTOR	RC1608J101CS	100Ω	2	SAMSUNG	R24	R25				
22	RESISTOR	RC1608J103CS	10K	46	SAMSUNG	R1	R25	R5	R6		
						R15	R16	R17	R19		
						R20	R23	R26	R28		
						R30	R36	R37	R41		
						R44	R49	R53	R54	4	
						R56	R61	R63	R64	-∕li	Point
						R67	R70	R71	R72	1	TOTAL
						R73	R75	R77	R79		

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M	ODEL. NAME	SNM	P	DO	OC.NAME		Part	list		SHEET	3
										DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CH	ANGED
						R80	R82	R84	R92		
						R194	R195	R199	R204		
						R208	R218	R219	R222		
						R223	R226				
23	RESISTOR	RC1608F103CS	10K_1%	1	SAMSUNG	R69					
24	RESISTOR	RC1608F154CS	150K_1%	1	SAMSUNG	R135					
25	RESISTOR	RC1608F184CS	180K_1%	1	SAMSUNG	R104					
26	RESISTOR	RC1608F1982CS	19.8K	1	SAMSUNG	R165					
27	RESISTOR	RC1608J102CS	1K	5	SAMSUNG	R18	R22	R27	R91		
						R198					
28	RESISTOR	RC1608F102CS	1K_1%	1	SAMSUNG	R153					
29	RESISTOR	RC1608J201CS	200Ω	6	SAMSUNG	R31	R33	R35	R46		
						R48	R52				
30	RESISTOR	RC1608J204CS	200K	1	SAMSUNG	R146					
31	RESISTOR	RC1608F3011CS	3.01K_1%	1	SAMSUNG	R100					
32	RESISTOR	RC1608F3831CS	3.83K_1%	1	SAMSUNG	R68					
33	RESISTOR	RC1608J330CS	33Ω	30	SAMSUNG	R7	R82	R9	R10		
						R11	R12	R13	R14		
						R21	R29	R32	R34		
						R47	R50	R51	R55		
						R57	R58	R62	R74		
						R76	R78	R81	R83		
						R85	R86	R87	R93		
						R94	R98				
34	RESISTOR	RC1608J331CS	330Ω	10	SAMSUNG	R42	R43	R59	R60		
						R88	R89	R96	R97		
						R105	R112				
35	RESISTOR	RC1608F4991CS	4.99K	1	SAMSUNG	R40				]	
36	RESISTOR	RC1608F500CS	50Ω	46	SAMSUNG	R38	R39	R113	R114		
						R115	R116	R117	R118	4	
						R119	R120	R121	R122	_∕ <b>/</b> i	rPoint
						R123	R124	R125	R126	7"	i i Onic
						R127	R128	R129	R130		

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M	ODEL. NAME	SNM	P	D	OC.NAME		Part	list		SHEET	4
										DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사			NUM		CH	ANGED
						R131	R132	R260	R261		
						R262	R263	R264	R265		
						R266	R267	R268	R269		
						R270	R271	R272	R273		
						R274	R275	R276	R277		
						R278	R279	R280	R281		
						R282	R283			4	
37	RESISTOR	RC1608G6343CS	634K	1	SAMSUNG	R145					
38	RESISTOR	RC1608J750CS	75Ω	4	SAMSUNG	R284	R285	R286	R287	<u>.</u>	
39	RESISTOR	RC1608F8872CS	88.7K	1	SAMSUNG	R166				<u>.</u>	
40	BEAD	CIM21J121NE	FB_2012	5	SAMSUNG	L1	L5	L6	L8		
						L9				4	
41	BEAD	HU-1M3216-121JT	FB_3216	1	CTC	L13				4	
42	INDUCTOR	SD3118_2R2_R	2.2uH	4	COILTRONICS	L11	L14	L17	L18		
43	INDUCTOR	CDRH2D14_4R7	4.7uH	6	SUMIDA	L2	L3	L4	L7		
						L15	L16			<u>.</u>	
44	FUSE	FHC16402ADTP	FUSE_1608	3	KAMAYA OHM	F1	F2	F3		4	
45	DIODE	MBRM110LT1G	MBRM110LT1G	1	ONSEMI	D2				<u>.</u>	
46	SW	SW	SW	1		SW1				<u>.</u>	
47	LED	LED	LED	2		LED1	LED2			<u>.</u>	
48	CON	MOLEX_ST_3P	MOLEX_ST_3P	2		J3	J7			<u> </u>	
49	CON	MOLEX_ST_4P	MOLEX_ST_4P	1		J8				<u>.</u>	
50	CON	53259_0817	53259_0817	1	MOLEX	J1				1	
51	CON	HP087020	HP087020(MALE)	2	HUMAN	CON1	CON2			1	
	TRANSFORMER	TC1_1T	TC1_1T	1		T1				1	
53	IC	TPS650243	TPS650243	1	TI	U20				1	
54	CONNECTOR	XRJK_S_04_A_8_0_807	RJ45	1	XMULTIPLE	J6				1	
55	XTAL	CM200S(32.768KHz)	CM200S(32.768KHz)	1	SUNNY	Y1				1	
56	XTAL	SX-1(3.6864MHz)	SX-1(3.6864MHz)	1	SUNNY	Y2				ļ	
57	IC	ADM6315_29D4ATZR7	ADM6315_29D4ATZR	1	ANALOG	U2				4	
58	IC	CS8900A-IQ3	CS8900A-IQ3	1	CIRRUS LOGIC	U6				. ✓∕li	rPoint
59	IC	DS3234SN#	DS3234SN#	1	MAXIM IC	U7				1	
60	IC	HY57V561620FLTP_HI	HY57V561620FLTP_H	2	HYNIX	U4	U13				

M	ODEL. NAME	SNM	P	D	OC.NAME		Part	list		SHEET	5
		•		•		•				CHA	NGED
NUM	품명	규격	단위	원단위수	제조사		REF	NUM			
61	IC	IRF7240PBF	IRF7240PBF	1	IRF	Q1					
62	IC	K9F1208U0C-PIB0	K9F1208U0C-PIB0	1	SAMSUNG	U14					
63	IC	KSZ8995MI	KSZ8995MI	1	MICREL	U17					
64	IC	KTN2222S	KTN2222S	1	KEC	U28					
65	IC	EPM3064ATI44	EPM3064ATI44	1	ALTERA	U18					
66	IC	PTH08T260WAZ	PTH08T260WAZ	1	TI	U21					
67	IC	MIC2202YMM	MIC2202YMM	1	MICREL	U15					
67	IC	GDPXA255A0E400	GDPXA255A0E400	1	INTEL	U10					
69	IC	S29GL032A90TFIR3	S29GL032A90TFIR3	1	SPANSION	U8					
70	IC	SN74AHC125PW	SN74AHC125PW	2	TI	U1	U16				
71	IC	SN74LVC16245ADGVR	N74LVC16245ADGVF	3	TI	U3	U9	U11			
72	IC	SN74LVC245ADGVR	SN74LVC245ADGVR	1	TI	U12					
73	IC	SP3223EEA	SP3223EEA	2		U29	U32				
74	IC	HX1234	HX1234	1	PULSE	U26					
75	IC	25MHz OCS	25MHz OCS	1	SUNNY	Y3					
76	IC	20MHz OCS	20MHz OCS	1	SUNNY	U5					
77	CAPACITOR	N.C	N.C	41		C33	C44	C46	C50		
						C64	C65	C66	C67		
						C68	C69	C70	C71		
						C72	C73	C74	C76		
						C78	C81	C82	C85		
						C87	C88	C89	C90		
						C91	C93	C97	C98		
						C99	C100	C101	C102		
						C103	C104	C105	C106		
						C107	C108	C109	C110		
						C111					
78	DIODE	1N4148WT	N.C	22		D12	D13	D14	D15		
						D16	D17	D18	D19	4	
						D20	D21	D22	D23	-Air	Point
						D24	D25	D26	D27	YIII	FUITE
						D28	D29	D30	D31	,	

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MC	DDEL. NAME	SNMI	•	DO	C.NAME		Part	list		SHEET	6
										DATE	2008.10.09
NUM	품명	규격	단위	원단위수	제조사		REF	NUM		CHA	ANGED
						D32	D33				
79	RESISTER	N.C	N.C	131		RN11	RN14	RN15	RN16		
						RN17	RN18	RN19	RN20		
						RN21	R3	R45	R65		
						R66	R90	R95	R102		
						R103	R106	R107	R108		
						R109	R110	R111	R134		
						R133	R136	R137	R138		
						R139	R140	R141	R143		
						R142	R144	R147	R148		
						R149	R150	R151	R152		
						R154	R155	R156	R158		
						R157	R159	R160	R161		
						R162	R163	R167	R168		
						R169	R170	R171	R172		
						R173	R174	R175	R176		
						R177	R178	R179	R180		
						R181	R182	R183	R184		
						R185	R186	R187	R188		
						R189	R191	R192	R193		
						R190	R196	R197	R200		
						R201	R202	R205	R206		
						R207	R209	R210	R211		
						R212	R213	R214	R215		
						R216	R217	R220	R221	l	
						R224	R225	R227	R228	l	
						R229	R230	R231	R232		l
						R233	R234	R235	R236	l	
						R237	R238	R239	R240		
						R241	R242	R243	R244	4	
						R245	R246	R247	R248	. ✓Aiı	Point
						R249	R250	R251	R252	/	
						R253	R254	R255	R256		

MC	DEL. NAME	SNMP		DO	C.NAME		Par	t list		SHEET	7
				II		ı				DATE	2008.10.
UM	품명	규격	단위	원단위수	제조사		REF	NUM		CHA	NGED
						R257	R258	R259			
80	BEAD	N.C	N.C	6		L19	L21	L22	L23		
						L10	L12				
81	INDUCTOR	N.C	N.C	2		L24	L20				
82	DIODE	SP0503BAHT	N.C	5		D4	D6	D7	D9		
						D11					
83	LED	N.C	N.C	7		LED3	LED4	D1	D3		
						D5	D8	D10			
34	CONNECTOR	N.C	N.C	6		J4	J5	CON3	J2		
						CON4	CON5	1			
85	RELAY	TQ2-3V	N.C	2		U22	U24				
86	VARISTOR	TVR07560KSY	N.C	2		VC1	VC2				
37	IC	AD7949BCPZ	N.C	1		U25					
88	IC	ADCMP600BRJZ	N.C	1		U39				1	
89	IC	CP2102	N.C	1		U19				1	
90	IC	KTA1552T	N.C	2		Q2	Q3				
91	IC	KTN2222S	N.C	6		U27	U23	U31	U33	1	
						U34	U35				
92	IC	EP3C5F256C8N_1	N.C	1		FU1					
93	IC	MAX4073TAXK-T	N.C	1		U38					
94	IC	SP3223EEA	N.C	3		U30	U36	U37		1	