

ATTACHMENT I.

- PART LIST -

Report No.: HCT-R07-036 1/1

SEQ PART NO	NAME	SPECIFICATION	UNIT	Q'TY	VENDOR	구매처	LOCATION
		MAIN Board Rev1.2					
1	PCB	1.6T 1/2 Oz FR-4 116 X 69mm 2Layer	EA	1			
2	SMD CPU	ATMEGA128 / 64 TQFP	EA	1	ATMEL		U6
3	SMD IC	74(VHC / AHC / HC)574 / 20P TSSOP	EA	4	ST		U1,U4,U7.U9
4	SMD IC	74(VHC / AHC / HC)138 / 16P TSSOP	EA	1	ST		U2
5	SMD IC	74(VHC / AHC / HC)32 / 14P TSSOP	EA	1	ST		U3
6	SMD IC	ULN2803A / 18P SOP	EA	3	ALLEGRO		U5,U8,U10
7	SMD IC	SP3224ECY(SP3223ECY) / 20P TSSOP	EA	1	SIPEX		U11
8	SMD IC	DS1232LP / 8P SOIC	EA	1	MAXIM		U12
9	SMD IC	MFRC531 / 32P SOP	EA	1	PHILIPS		U13
10	SMD RES	33 -5% / 2P 1608	EA	4			R23-26
11	SMD RES	51 -5% / 2P 1608	EA	2			R17,R31
12	SMD RES	100 -5% / 2P 1608	EA	8			R1-3,5-9
13	SMD RES	330 -5% / 2P 1608	EA	4			R15,R18-20
14	SMD RES	820-5% / 2P 1608	EA	1			R28
15	SMD RES	1K -5% / 2P 1608	EA	3			R4,R14,R21
16	SMD RES	2.7K-5% / 2P 1608	EA	1			R29
17	SMD RES	10K -5% / 2P 1608	EA	8			R10-13,R16,R22,R27,R30
18	SMD C/CAP	15pF -5% / 2P 1608	EA	3			C16,18,19
19	SMD C/CAP	20pF-5% / 2P 1608	EA	2			C1-2
20	SMD C/CAP	68pF -5% / 2P 2012	EA	2			C13,14
21	SMD C/CAP	100pF -5% / 2P 2012	EA	2			C12,15
22	SMD C/CAP	?pF-5% / 2P 2012	EA	1			C11
23	SMD T/T CAP	TT-10/10 (TMCMA1A106) / 2P 3216	EA	1	HITACHI	창우	C7
24	SMD T/T CAP	TT-100/10(TMCMB1A107) / 2P 3528	EA	1	HITACHI	창우	C8
25	SMD C/CAP	102C-5% / 2P 1608	EA	1			C20
26	SMD C/CAP	103C -5% / 2P 1608	EA	2			C9-10
27	SMD C/CAP	104Z-Y5V / 2P 1608	EA	19			BC1-14,C3-6,C17
28	SMD EL/CAP	EL-100/16(MVK) / F60 SMD	EA	2	SAMYOUNG	엘림	C24-25
29	SMD EL/CAP	EL-220/25(MVK) / J10 SMD (220/35 MVK-J10)	EA	3	SAMYOUNG	엘림	C21-23
30	SMD REGULATOR	LM2576-5 / 5P TO-263	EA	1	National/OnSemi		U14
31	SMD DIODE	B340A / 2P 5328 (SX34 - WTE) (SK34B - KI)	EA	2	Vishay/WTE/KI		D1-2
32	SMD LED	LED RED / 2012 SMD	EA	3		엘림	LD1-3
33	SMD BEADS	HB-1T2012-800 / 2P 2012	EA	6	CERATECH	엘림	L1-5,L8
34	SMD INDUCTOR	NLV32T-1R0J-PF / 2P 3225	EA	2	TDK	엘림	L6-7
35	SMD INDUCTOR	100uH/1.8A (SC1360B-101M) / 2P SMD	EA	1	KwangSung	엘림	L9
36	SMD TR	MMBT3904 / 3P SOT23	EA	1	ST/PHILIPS		Q1
37	SMD SWITCH	TACT S/W (SKQDAA) / 2P SMD (1107GS - DAEJIN)	EA	1	ALPS/Daejin		RESET1
38	DIP SWITCH-4Pole	KSS04-DIP / 8P DIP	EA	1	OTAX		SW1
39	SMD TVS	SMBJ15C / 2P DO214AA	EA	2	FRONTIER/Vishay	청호	TVS1-2
40	SMD TRANSF	1812WBT-3L / 4P 4938	EA	1	COILCRAFT		T1
41	SMD CRYSTAL	14.7456MHz / 2P SX-1	EA	1	SUNNY		X1
42	SMD CRYSTAL	13.56MHz / 2P SX-1	EA	1	SUNNY		X2
43	DIP BUZZER	BJM-05 / 2P	EA	1	BUJEON		BZ1
44	DIP CONNECTOR	2.54mm,2X10 HEADER SOCKET / 20P DIP FEMALE	EA	1			J1
45	DIP CONNECTOR	2.54mm,2X5 ANGLE PIN HEADER / 10P DIP MALE	EA	1			J2

46	DIP CONNECTOR	2.54mm,2X12 HEADER SOCKET / 24P DIP FEMALE	EA	1		J3	
47	DIP CONNECTOR	SMAW200-03 / 3P DIP	EA	1	YEONHO	J4	
48	DIP CONNECTOR	SMAW250-02 / 2P DIP	EA	1	YEONHO	J5	
49	DIP CONNECTOR	SMAW250-06 / 6P DIP	EA	1	YEONHO	J6	_
50							_
51	SUPPORT	11.0mm 3\phi NICKEL COATING (FEMALE - MALE)	EA	4			_
52	SCREW	M3.0 X 5 BH +	EA	4			_
53	SCREW	φ3,0 X 6 TAP TITE BH +	EA	8			_

		FND Board Rev1.2						
1	PCB	1.6T 1/2 Oz FR-4 116 X 69mm 2Layer	EA	1				
2	SMD RES	560 -5% / 2P 1608	EA	4			R12-15	
3	SMD RES	200 -5% / 2P 1608	EA	5			R1-6	
4	SMD RES	300 -5% / 2P 1608	EA	6			R7-11	
5	DIP LED	5Φ LED RED (LR530) / 2P DIP	EA	0	SEOUL SEMI		D1-D5	(N.I)
6	DIP FLAT LED	SBD2420UG / 4P DIP	EA	1	SAMKWANG	엘림	U8	
7	DIP FLAT LED	SBD2420UR / 4P DIP	EA	1	SAMKWANG	엘림	U9	
8	DIP FLAT LED	SBD120UG / 5P DIP	EA	3	SAMKWANG	엘림	U5-7	
9	DIP FND	SND-530AUR / 12P DIP	EA	2	SAMKWANG	엘림	U1-2	
10	DIP FND	SND-440AUR / 12P DIP	EA	2	SAMKWANG	엘림	U3-4	
11	DIP CONNECTOR	2.54mm,2X10 PIN HEADER / 20P DIP MALE	EA	1			J1	
12	DIP CONNECTOR	2.54mm,2X12 PIN HEADER / 24P DIP MALE	EA	1			J2	
13	DIP CONNECTOR	SMAW200-05 / 5P DIP	EA	1	YEONHO		J3	

		Antenna Board Rev1.2					
1	PCB	1.6T 1/2 Oz FR-4 100 X 86mm 2Layer	EA	1			
2	SMD C/CAP	22pF -5% / 2P 2012	EA	1			C1
3	SMD C/CAP	100pF -5% / 2P 2012	EA	1			C3
4	SMD V-CAP	20pF-5% (TZB4R200AB10) / 2P SMD	EA	1	muRata		
5	RF Cable	길이: 200 ㎜, SMH250-02, 동축케이블	EA	1		프리라인	
6	BUSH	EBP-100 A/B 용 Bushing (Antenna 고정용)	EA	4			
7	CLAMP FILTER	ZCAT1518-0730 (35Ω)	EA	1	TDK	엘림	

SEQ PART NO	NAME	SPECIFICATION	UNIT Q	'TY	VENDOR	구매처	LOCATION
		CPU Board Rev1.2					•
1	PCB	1.6T 1/2 Oz FR-4 Gold Coating, 45 X 80mm, 6 Layer	EA	1			
2	SMD CPU	PXA255A0C400 / 256P mBGA	EA	1	INTEL		U1
3	SMD IC	DS1232LPS / 8P SOIC	EA	1	DALLAS/MAXIM		U2
4	SMD IC	MIC5219BM5(YM5) / SOT23-5	EA	1	MICREL		U3
5	SMD IC	74(LCX / LVC)04 / 14P TSSOP	EA	1	ST/NS/TI		U4
6	SMD SDRAM	K4S281632I-TC75(UC75) / 54P TSOP2	EA	2	SAMSUNG		U5
7	SMD NOR-FLASH	E28F128J3A-150 (JS28F128J3D-75) / 56P TSOP	EA	1	INTEL		U7
8	SMD IC	74(LCX / LVC)541 / 20P TSSOP	EA	1	ST/NS/TI		U8
9	SMD CRYSTAL	3.6864MHz / 2P SX-1	EA	1	SUNNY		X1
10	SMD CRYSTAL	32.768Khz / 4P CS-306	EA	1	SUNNY		X2
11	SMD RES	100 -5% / 2P 1608	EA	5			R11-15
12	SMD RES	470 -5% / 2P 1608	EA	1			R7
13	SMD RES	1K -5% / 2P 1608	EA	3			R2,5,6
14	SMD RES	10K -5% / 2P 1608	EA	2			R1,4
15	SMD RES	100K -5% / 2P 1608	EA	4			R3,8,9,10
16	SMD C/CAP	330pF -5% / 2P 1608	EA	5			C6-10
17	SMD C/CAP	104Z-Y5V / 2P 1608	EA	33			BC1-33
18	SMD T/T CAP	TT-10/10 (TMCMA1A106) / 2P 3216	EA	5	HITACHI	창우	C1-5
19	SMD T/T CAP	TT-100/10(TMCMB1A107)/2P 3528	EA	4	HITACHI	창우	C11-14
20	SMD LED	LED BLUE / 2012 SMD	EA	1		엘림	LD1
21	SMD SWITCH	TACT S/W (SKQDAA) / 2P SMD (1107GS - DAEJIN)	EA	1	ALPS/Daejin		RESET1
22	DIP CONNECTOR	SCP3A-100-ST-G / 100P DIP MALE	EA	1	CENLINK	프리라인	JH1
23	DIP CONNECTOR	PS3M-D-ST-100-H2-G / 100P DIP FEMALE	EA	1	CENLINK	프리라인	JH2
24	SMD CONNECTOR	12505WR-06 / 6P SMD MALE	EA	1	YEONHO		JTAG1

		MAIN Board Rev1.2						
1	PCB	1.6T 1/2 Oz FR-4 , 210 X 90mm , 4 Layer	EA	1				
2	SMD IC	74(LCX / LVC)32 / 14P TSSOP	EA	1	ST/NS/TI		U1	
3	SMD ETHERNET IC	CS8900A-CQ3 / 100P TQFP	EA	1	Cirrus Logic		U2	
4	SMD TRANS	ST7011 / 16P SOIC	EA	1	PULSE		U3	
5	DIP DCDC	LDO06C / 5P SIP	EA	0	ARTESYN		U4	(N.I)
6	DIP DCDC	PM-23JD055 / 5P SIP	EA	1	P-DUKE	아로	U5	
7	SMD IC	74(LCX / LVC)04 / 14P TSSOP	EA	1	ST/NS/TI		U6	
8	SMD IC	74(LCX / LVC)245 / 20P TSSOP	EA	6	ST/NS/TI		U7,8,14,19,20,34	
9	SMD IC	74(LCX / LVC)08 / 14P TSSOP	EA	1	ST/NS/TI		U9	
10	SMD IC	74(LCX / LVC)574 / 20P TSSOP	EA	5	ST/NS/TI		U10,17,21,23,26	
11	SMD IC	74(LCX / LVC)138 / 16P TSSOP	EA	4	ST/NS/TI		U11,12,15,16	
12	SMD IC	AT24C32A / 8P SOIC	EA	1	Atmel		U40	
13	SMD RTC	RTC4513 / 14P SOIC	EA	1	Seiko Epson		U13	
14	DIP FND	SND-360SR / 10P DIP	EA	4	SamKwang	엘림	U18,22,24,27	
15	SMD USB IC	SL811HST-AC / 48P TQFP	EA	1	CYPRESS		U25	
16	SMD UART IC	TL16C554APN / 80P TQFP	EA	2	TI		U28,29	
17	SMD SOUND IC	CS4297A-JQ (CS4299) / 48P TQFP	EA	1	Cirrus Logic		U30	
18	SMD IC	74(VHC / AHC)125 / 14P SOP	EA	1	ST/NS/TI		U31	
19	SMD IC	SP3224ECY(SP3223ECY) / 20P TSSOP	EA	1	SIPEX		U32	
20	SMD IC	74(LCX / LVC)125 / 14P TSSOP	EA	1	ST/NS/TI		U33	
21	SMD IC	74(VHC / AHC / HC)245 / 20P TSSOP	EA	1	ST/NS/TI		U35	
22	SMD IC	74(VHC / AHC / HC)138 / 16P TSOP	EA	1	ST/NS/TI		U36	
23	SMD CRYSTAL	20MHz / 2P SX-1	EA	1	SUNNY		X1	
24	SMD CRYSTAL	24.576MHz / 2P SX-1	EA	1	SUNNY		X2	
25	SMD RES	0 -5% / 2P 1608	EA	7			R9-13,32,96,119	R32 (N.I)
26	SMD RES	22 -5% / 2P 1608	EA	4			R80-83	
27	SMD RES	24.9-5% / 2P 1608	EA	2			R19,20	
28	SMD RES	33 -5% / 2P 1608	EA	26			R27,31,97-116,120,123-125	
29	SMD RES	100 -5% / 2P 1608	EA	1			R18	
30	SMD RES	150 -5% / 2P 1608	EA	32			R36-40,43-45,48-55,72-79,88-	95
31	SMD RES	267 -1% / 2P 1608	EA	1			R26	
32	SMD RES	470 -5% / 2P 1608	EA	6			R1,R21,22,24,25,28	
33	SMD RES	1K -5% / 2P 1608	EA	10			R6-8,23,35,46,47,122,127,128	
34	SMD RES	1.5K-1% / 2P 1608	EA	1			R29	
35	SMD RES	4.7K -5% / 2P 1608	EA	6			R14-17,R137,138	
36	SMD RES	6.8K -5% / 2P 1608	EA	0			R30	(N.I
							R2-3,5,34,41,42,56-71,84-87,	121.126.129-
37	SMD RES	10K -5% / 2P 1608	EA	36			136	, -,
38	SMD RES	47K -5% / 2P 1608	EA	1			R4	
39	SMD RES	100K -5% / 2P 1608	EA	1			R33	
40	SMD RES	220K -5% / 2P 1608	EA	2			R117,118	
41	SMD C/CAP	22pF -5% / 2P 1608	EA	2			C33,34	

92	NUT	M3.0 NUT(NI)	EA	6			케이스 조립용	
91	SCREW	M3.0 X 6 PH + SEMS	EA	4			보드 고정용	
90	SCREW	M3.0 X 5 BH +	EA	12			보드 고정용	
89	BATTERY	CR2032	EA	1			for BT1	
88	SUPPORT	17.0mm 3 © NICKEL COATING (FEMALE - MALE)	EA	10			보드 고정용	
87	SUPPORT	MINIATURE SUPPORT POST (MSP-4N , H:6.35mm)	EA	4	DONG-A		CPU 보드 고정용	
							0011 H = 7 H 0	. ,
86	SMD CONNECTOR	USB_MINI_B (GW642) / 5P SMD	EA	0	SKT		J14	(N.I)
85	DIP CONNECTOR	USB_A (CM630) / 4P DIP	EA	1	SKT	프리라인	J13	
84	DIP CONNECTOR	LAD1140-04X / 4P DIP	EA	1	HANLIM	프리라인		
83		2.54mm,2X12 HEADER SOCKET / 24P DIP FEMALE	EA	1		프리라인		
82	DIP CONNECTOR	2.54mm,2X10 HEADER SOCKET / 20P DIP FEMALE	EA	2		프리라인		
81	DIP CONNECTOR	SMAW250-24V / 24P DIP	EA	1	YEONHO	프리라인	J9	
80	DIP CONNECTOR	SMAW200-03 / 3P DIP	EA	1	YEONHO	프리라인	J8	
79	DIP CONNECTOR	SMAW250-03 / 3P DIP	EA	1	YEONHO	프리라인	J7	
78	DIP CONNECTOR	SMAW250-04 / 4P DIP	EA	3	YEONHO	프리라인	J6,J18-19	
77	DIP CONNECTOR	SMAW200-04 / 4P DIP	EA	3	YEONHO	프리라인	J5,J16-17	
76	DIP CONNECTOR	2.54mm,2X13 HEADER SOCKET / 26P DIP FEMALE	EA	1		프리라인		
75	DIP CONNECTOR	2.54mm,2X8 HEADER SOCKET / 16P DIP FEMALE	EA	1		프리라인	J3	
74	DIP CONNECTOR	2.54mm,2X12 HEADER SOCKET / 24P DIP FEMALE	EA	1		프리라인	J2	
73	DIP CONNECTOR	RJ45 (PCB-825) / 8P DIP (DEK657PCB-HI)	EA	1	DEK	프리라인	J1	
72	DIP CONNECTOR	SCP3A-100-ST-G / 100P DIP MALE	EA	1	CENLINK	프리라인	JH2	
71	DIP CONNECTOR	PS3M-D-ST-100-H2-G / 100P DIP FEMALE	EA	1	CENLINK	프리라인	JH1	
70	SMD BUZZER	BPT-05S / 2P SMD	EA	1	BUJEON		BZ1	
69	SMD TVS	SMBJ15C / 2P DO214AA	EA		FRONTIER/Vishay	 청호	TVS1-4	
68	SMD FILTER	CL-2M2012-221JT / 4P 2012	EA	2	CERATECH	엘림	TF1-2	
67	DIP SWITCH-8Pole	KSS08-DIP / 16P DIP	EA	2	OTAX		SW2-2	
66	SMD SOCKET	SD/MMC SOCKET(SCM-714) / 11P SMD	EA	1	SKT		SD1	
65	SMD TR	MMBT3904 / 3P SOT23	EA	3	ST/PHILIPS		Q1-3	
64	SMD POLY S/W	miniSMDC075F / 2P 4532	EA	2	RAYCHEM	 청호	PF2-3	
63	DIP POLY S/W	RGEF500 / 2P DIP	EA	1	RAYCHEM	 청호	PF1	
62	SMD BEADS	CB2012PK600 / 2P 2012	EA	10	SAMWHA	엘림	L1-10	
61	SMD REGULATOR	AME1085DCDT-3 / 3P TO263	EA	1	AME		LM1	
60	SMD LED	LED RED / 2012 SMD	EA	2			LD4-5	
59	SMD LED	LED YELLOW / 2012 SMD	EA	2			LD2-3	
58	SMD LED	LED BLUE / 2012 SMD	EA	1	•		LD1	
57	SMD SWITCH	TACT S/W (SKQDAA) / 2P SMD (1107GS - DAEJIN)	EA	1	ALPS/Daejin		RESET1	
56	DIP TACK SWITCH	TACT S/W (JPT-1236A) / 4P-DIP (1102V - DAEJIN)	EA	3	JEIL/Daejin		FN1-3	
55	SMD DIODE	BAT54C / 3P SOT23	EA	1	Vishay		D3	
54	DIP REC DIODE	SB550(A) 5A 50V / 2P DO-201AD (SR560 - KI)	EA	1	Vishay/KI		D2	
53	DIP ZENER DIODE	1N4743A 1W / 2P DO-41	EA	1	DIODES		D1	
52	DIP BAT SOCKET	CR2032BH / 2P DIP	EA	1		U I	BT1	
51	SMD T/T CAP	TT-2.2/20 (TMCMA1C225) / 2P 3528	EA	2	HITACHI	<u>으 :</u> 창우	C35,36	
50	SMD T/T CAP	TT-10/10 (TMCMA1A106) / 2P 3216	EA	6	HITACHI	<u> </u>	C5,6,10,13,23,24	
49	SMD T/T CAP	TT-1/20 (TMCMA1D105) / 2P 3216	EA	2	HITACHI	<u>트립</u> 창우	C27,28	
48	SMD EL/CAP	EL-220/25(MVK) / J10 SMD (220/35 MVK-J10)	EA	3	SAMYOUNG	엘림	C14-15,C46	
47	SMD EL/CAP	EL-100/16(MVK) / F60 SMD	EA	16	SAMYOUNG	엘림	C1-4,C12,C16-22,C25-26,C44-45	
46	SMD C/CAP	104Z-Y5V / 2P 1608	EA	68			BC1-63,C39-43	
45	SMD C/CAP	103C -5% / 2P 1608	EA	1			C29	
44	SMD C/CAP	102C -5% / 2P 1608	EA	5			C30-32,37,38	
43	SMD C/CAP	68pF -5% / 2P 1608	EA	1			C9	
42	SMD C/CAP	15pF -5% / 2P 1608	EA	2			C7,8	

93	WASHER	M3.0 Plane Paper Washer	EA	10		Support 장착시 사용

		NAND FLASH Board Rev1.2					
1	РСВ	1.6T 1/2 Oz FR-4 , 52.3 X 65mm , 4 Layer	EA	1			
2	SMD IC	74(LCX / LVC)138 / 16P TSSOP	EA	2	ST/NS/TI		U1,5
3	SMD IC	74(VHC / AHC / HC)574 / 20P TSSOP	EA	3	ST/NS/TI		U2,4,6
4	SMD IC	74(LCX / LVC)32 / 14P TSSOP	EA	4	ST/NS/TI		U3,12,17,20
5	SMD IC	74(LCX / LVC)245 / 20P TSSOP	EA	6	ST/NS/TI		U7-8,10,14,15,19
6	SMD FLASH MEM	K9F1208U0B-YCBO(UOC-PCB0) /48P TSOP1	EA	2	SAMSUNG		U9,11,13,16 U13,16 (N.I)
7	SMD SMC SOCKET	SMC SOCKET (M90-01011-00Y1)	EA	0	CENLINK		U18 (N.
8	SMD RES	10K -5% / 2P 1608	EA	8			R1-8
9	SMD RES	4.7K -5% / 2P 1608	EA	2			R9-10
10	SMD C/CAP	47pF -5% / 2P 1608	EA	2			C1-2
11	SMD T/T CAP	TT-100/10(TMCMB1A107)/2P 3528	EA	4	HITACHI	창우	C3-6
12	SMD C/CAP	104Z-Y5V / 2P 1608	EA	27			BC1-27
13	DIP CONNECTOR	2.54mm,2X13 PIN HEADER / 26P DIP MALE (2단)	EA	1			J1
	1000	SAM Board Rev1.2					
1	PCB	1.6T 1/2 Oz FR-4 , 50 X 90mm , 4 Layer	EA	1			
2	SMD IC	CST56I01 / 32P LQFP (LOT A02XX 이후제품)	EA	2			U1,3
3	SMD IC	74(VHC / AHC / HC)245 / 20P TSSOP	EA	1	ST/NS/TI		U2
4	SMD IC	M74HC11 / 14P SOP	EA	1	ST		U4
5	SMD UART IC	PC16552D / 44P PLCC	EA	1	NS		U5
6	SMD IC	74(VHC / AHC)4052 /16P SOP	EA	2			U6,7
7	SMD SOCKET	SOCKET / 44P PLCC	EA	2			U8,9
8	SMD CRYSTAL	3.6864MHz / 2P SX-1	EA	1	SUNNY	창우	X1
9	SMD CRYSTAL	14.7456MHz / 2P SX-1	EA	1	SUNNY	창우	X2
10	SMD CRYSTAL	22.1184MHz / 2P SX-1	EA	1	SUNNY	창우	X3
11	SMD OSC	OSC 14.7456MHz (SCO-105) / 4P SMD	EA	1	SUNNY	창우	OSC1
12	SMD RES	0 -5% / 2P 1608	EA	1			R24
13	SMD RES	100 -5% / 2P 1608	EA	8			R5,6,11,12,17,19,25,27
14	SMD RES	1K -5% / 2P 1608	EA	4			R4,10,16,23
15	SMD RES	8.2K -5% / 2P 1608	EA	3			R30,34,35
16	SMD RES	1.5K -5% / 2P 1608	EA	1			R32
17	SMD RES	4.7K -5% / 2P 1608	EA	1			R33
18	SMD RES	10K -5% / 2P 1608	EA	16			R1-3,7-9,13-15,18,20-22,26,28,29
19	SMD RES	1M -5% / 2P 1608	EA	1			R31
20	SMD C/CAP	10pF -5% / 2P 1608	EA	4			C1,3,5,7
21	SMD C/CAP	15pF -5% / 2P 1608	EA	2			C15,16
22	SMD C/CAP	22pF -5% / 2P 1608	EA	2		-	C12,13
23	SMD C/CAP	30pF -5% / 2P 1608	EA	5			C2,4,6,8,10
24	SMD C/CAP	62pF -5% / 2P 1608	EA	1			C11
25	SMD C/CAP	104C -5% / 2P 1608	EA	16			BC1-16
26	SMD T/T CAP	TT-10/10 (TMCMA1A106) / 2P 3216	EA	2	HITACHI	창우	C9,14
27	SMD FET	SI2301DS / 3P SOT23	EA	4	Vishay		Q1-4
28	SMD SOCKET	SIMLOCK (CNS01-SMT-06-IW-W) / 6P SMD	EA	4	CONNEX		SIM1-4
29	SMD ZENER DIODE	AZ23-C5V6 / 3P SOT23	EA	4	Vishay/DIODES		ZD1-4
30	DIP CONNECTOR	2.54mm,2X12 PIN HEADER / 24P DIP MALE (2단)	EA	1			J1
31	DIP CONNECTOR	2.54mm,2X8 PIN HEADER / 16P DIP MALE (2단)	EA	1			J2
32	SAM	에콰도르 전용 SAM	EA	1			for SIM1

		EXT I/O Board Rev1.2						
1	PCB	1.6T 1/2 Oz FR-4 , 50 X 90mm , 2 Layer	EA	1				
2	SMD IC	SP3224ECY(SP3223ECY) / 20P TSSOP	EA	4	SIPEX		U1-2,3,5	
3	DIP RS-422 IC	MAX488 / 8P DIP	EA	1	MAXIM		U4	(N.I)
4	DIP RS-485 IC	MAX485 / 8P DIP	EA	1	MAXIM		U6	(N.I)
5	DIP AMP IC	TDA7267 / 8P DIP	EA	2	ST		U7-8	
6	SMD RES	0R -5% / 2P 1608	EA	4			R17-18,20,22	
7	SMD RES	22R -5% / 2P 1608	EA	14			R1-10,13-16	
8	SMD RES	33R -5% / 2P 1608	EA	2			R25,27	
9	SMD RES	330R -5% / 2P 1608	EA	2			R11-12	
10	SMD RES	10K -5% / 2P 1608	EA	4			R19,23-24,26	
11	DIP RES	*** / 2P 1/4W	EA	1			R21	(N.I
12	SMD C/CAP	100pF -5% / 2P 1608	EA	2			C24,28	
13	SMD C/CAP	104Z-Y5V / 2P 1608	EA	31			BC1-13,C1-4,8-19,21,25	
14	SMD T/T CAP	TT-47/16(TMCMB1C476) / 2P 3528	EA	2	HITACHI	창우	C23,27	
15	SMD EL/CAP	EL-100/16(MVK) / F60 SMD	EA	2	SAMYOUNG	엘림	C5,6	
16	SMD EL/CAP	EL-220/25(MVK) / J10 SMD (220/35 MVK-J10)	EA	2	SAMYOUNG	엘림	C7,20	
17	SMD EL/CAP	EL-470/16(MVK) / J10 SMD (470/25 MVY-J10)	EA	2	SAMYOUNG	엘림	C22,26	
18	SMD BEADS	CB2012PK600 / 2P 2012	EA	2	SAMWHA	엘림	L1-2	
19	SMD TVS	SMBJ15C / 2P DO214AA	EA	18	FRONTIER/Vishay	청호	TVS1-18	
20	DIP TRIMMER	500R (CT-6P501) / 3P DIP	EA	2	COPAL		VR1-2	
21	SMD LED	LED RED / 2012 SMD	EA	2		엘림	LD1-2	
22	DIP SOCKET	8P IC DIP ROUND SOCKET / 8P DIP	EA	2		프리라인	for U4,U6	
23	DIP CONNECTOR	D-SUB-ANGLE-9PIN (RDED-9S-LNA) / 9P DIP FEMALE	EA	1	HIROSE	프리라인	J1	
24	DIP CONNECTOR	2.54mm,2X10 PIN HEADER / 20P DIP MALE (2단)	EA	2		프리라인	J2,9	
25	DIP CONNECTOR	2.54mm,2X12 PIN HEADER / 24P DIP MALE (2단)	EA	1		프리라인	J3	
26	DIP CONNECTOR	SMAW250-06 / 6P DIP	EA	2	YEONHO	프리라인	J4-5	
27	DIP CONNECTOR	SMAW250-05 / 5P DIP	EA	1	YEONHO	프리라인	J6	
28	DIP CONNECTOR	SMAW250-02 / 2P DIP	EA	2	YEONHO	프리라인	J7-8	

Parts List	Model	Date	Page	
Tarts Eist	SCS36-12BAT	2007.10.31	1/3	

No.	Description	Specification	Q'ty	Vendor	Part No	Draw. No.	Rema rk
	IC			UNITRODE	LM2755-ADJ	IC1	
	IC			페어차일드	KA393	U1,5	
	IC			페어차일드	KA27833	U3	
	DIODE-SY			신전원	F10SC4M	D1	
	DIODE S/W			평창무역	1N4148	D2,3	
	DIODE -FR			G.I	uF4007	D4	
	TR			페어차일드	2SC2328	TR3	
	IC			"	KA431	U2	
	TR			KEC	KTC3198	TR2,6,7	
	TR			페어차일드	KSA928	TR4,5	
	CAP-ECELT			SAM YOUNG	KMG 16V 2200uF	C1,7,8	
	CAP-MM			PIL KOR	63V 334	СЗ	
	CAP-MM			PIL KOR	63V 104	C2,4	
	RES-CF			Any	1/8W 2K-F	R12	
	RES-CF			Any	1/8W 3.9K-F	R11	
	RES-CF			Any	1/8W 2.4K-F	R9,14,18,30 34,35,36	
	RES-CF			Any	1/8W 4.7K-F	R6,7	
	RES-CF			Any	1/8W10K-F	R8	
	RES-CF			Any	1/8W 200-F	R2	
	RES-CF			Any	1/8W3.6K-F	R16	
	RES-CF			Any	1/8W220-F	R15	
	RES-CF			Any	1/8W2.7K-F	R17	
	RES-CF			Any	1/8W150-F	R4	
	RES-CF			Any	1/8W20K-F	R1,23,25, 32,37,39	
	RES-CF			Any	18W47K-F	R22,26,33	

Parts List	Model	Date	Page	
i di ts List	SCS36-12BAT	2007.10.31	2/3	

No.	Description	Specification	Q'ty	Vendor	Part No	Draw. No.	Remark
	PCB			비트설계			
	REALY		1	한국릴레이	HR702NH DC12V	RE1	
	HARENSS			삼익전자			
	CASE			성신산업			
	HEAT SINK						
	CHCOKE COIL			TNC	NVA0127-2517 0N		
	SCREW	FH3*6(검정)					
	SCREW	PH3*6(쌤스)					
	RTV						
	BOX						
	BATTERY	12V 2A					
	RES-CF			Any	18W56K-F	R29	
	RES-CF			Any	18W30K-F	R31	
	RES-CF		1	Any	1/8W36K-F	R21	
	RES-CF		1	Any	1/8W1K-F	R3,19,27,28	
	RES-CF		1	Any	2W0.2-J	R13	
	RES-CF		1	Any	1/8W100K-F	R5,20	
	RES-CF		1	Any	1/8W5.8K-F	R58	
	D-FR			GI	1N5822	D5	
	LED	5Φ빨강					
	LED	5Φ녹색					
	LED	5Φ노랑					
	IC			페어차일드	KA358	U1	
	ZENER	1W 6.2V		Any	1N4735	ZD2	
	FET			페어차일드	SFP9Z34	Q1	

Parts List	Model	Date	Page
Tarts List	SCS36-12BAT	2007.10.31	3/3

No.	Description	Specification	Q'ty	Vendor	Part No	Draw. No.	Remark
	CONNECTOR			Any	5267-02	CN6	
	CONNECTOR			Any	5267-05	CN5	
	CONNECTOR			Any	5268-07	CN3	
	CONNECTOR			연호전자	YW396-02	CN4	
	마이콤IC						
	DC-짹						