

NO	ITEM	DESCRIPTION	VENDER PART NUMBER	VENDER	Q'TY	Unit	L/D	DESIGN NUMBER	Remark
1	IC	Real Time Clock, SS0P-8	RS5C372A	RICOH	1	EA		U11	
2	IC	TTL, INVERTER, 74HC04, SOP-14	74HC04D	ST Philips Hitachi	1	EA		U8	
3	IC	MCU, ATMEGA128-16AI, TQFP	ATMEGA128	ATMEL	1	EA		U4	
4	IC	TTL, LATCH, 74HC573, SO-20	74HC573	ST Philips Hitachi	1	EA		U5	
5	IC	IS014443 READER IC, MF RC531, SOP-32	MF RC531	Philips	1	EA		U3	
6	IC	SRAM, 32KBytes, KM62256B, SOP-28	KM62256B IS62C256 HY62WT081	Samsung Hynix	1	EA		U6	
7	IC	TTL, 74HC139, 1-4 DECODER/MULTIPLEXER, SOP-16	74HC139D	ST Philips Hitachi	1	EA		U7	
8	IC	IC-LIN, 7805, VOLTAGE REGULATOR, +5V, 3-LEAD TO-220	LM7805	NATIONAL ONSEMI	1	EA		U10	
9	IC	TTL, 74HC125, QUADRUPLE BUS BUFFER, SOP-14	74HC125	ST Philips Hitachi	1	EA		U12	
10	IC	Serial Communication IC, MAX232, NARROW, 150 MIL	MAX232,SP232	MAXIM,SIPEX	1	EA		U1	
11	IC	Serial Eeprom, 24C64, SOIC-8	24C64		1	EA		U9	Option
12	IC	USB, PDIUSB12, TSSOP28	PDIUSB12	Philips	1	EA		U2	Option

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13	Varistor	Chip Varistor, 3216	VN32-180J-182		10	EA		RV1, RV2, RV3, RV4, RV5, RV6, RV7, RV8, RV9, RV10	
14	CRYSTAL	13.56MHz, ATS-49/U, SMD	13.56MHz		1	EA		Y2	
15	CRYSTAL	14.7456MHz, ATS-49/U, SMD	14.7456MHz		1	EA		Y3	
16	CRYSTAL	6MHz, ATS-49/U, SMD	6MHz		1	EA		Y1	Option
16	CRYSTAL	10MHz, ATS-49/U, SMD	10MHz		1	EA		Y5	
17	CRYSTAL	32KHz, SMD	32KSI10G	Skytech	1	EA		Y4	
18	BUZZER	BUZZER 5V, 12pi, 회로 비내장형	KP12-185A	KEPO	1	EA		BZ1	
19	RESISTOR	22, 1608J, 5% 1/8W, RES-CHIP			1	EA		R34	
20	RESISTOR	18, 1608J, 5% 1/8W, RES-CHIP			2	EA		R5, R6	
21	RESISTOR	100, 1608J, 5%, 1/8W, RES-CHIP			5	EA		R1, R2, R3, R4, R64	
22	RESISTOR	220, 1608J, 5% 1/8W, RES-CHIP			12	EA		R43, R44, R45, R46, R47, R48, R57, R58, R59, R60, R61, R62	
23	RESISTOR	330, 1608J, 5% 1/8W, RES-CHIP			2	EA		R67, R68	
24	RESISTOR	470, 1608J, 5% 1/8W, RES-CHIP			7	EA		R7, R17, R18, R19, R24, R65, R66	
25	RESISTOR	1K, 1608J, 5% 1/8W, RES-CHIP			3	EA		R14, R15, R32	
25	RESISTOR	10K, Volume RES, 3314J-2-103, SMD	3314J	BOURNS	1	EA		R30	

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28	RESISTOR	39K, 1608J, 5% 1/8W, RES-CHIP			1	EA		R31	
29	RESISTOR	4.7K, 1608J, 5% 1/8W, RES-CHIP			1	EA		R12	
30	RESISTOR	10K, 1608J, 5% 1/8W, RES-CHIP			30	EA		R9, R11, R16, R20, R21, R22, R23, R25, R26, R27, R28, R29, R35, R36, R37, R38, R39, R40, R41, R42, R49, R50, R51, R52, R53, R54, R55, R56, R33	
31	RESISTOR	1M, 1608J, 5% 1/8W, RES-CHIP			4	EA		R7, R8, R13, R63	
32	CAPACITOR	100nF, 50V, 1608, +-20%, CAP-CHIP			21	EA		BC1, BC2, BC3, BC4, BC5, C9, C11, C15, C17, C23, C36, C40, C41, C44, C45, C46, C47, C48, C49, C50, C51	
33	CAPACITOR	15pF, 50V, 1608, +-5%, CAP-CHIP			9	EA		C12, C13, C18, C31, C32, C34, C35, C52, C53	
34	CAPACITOR	27pF, 50V, 1608, +-5%, CAP-CHIP			3	EA		C20, C22, C25	
35	CAPACITOR	47pF, 50V, 1608, +-5%, CAP-CHIP			2	EA		C21, C27	
36	CAPACITOR	100pF, 50V, 1608, +-5%, CAP-CHIP			1	EA		C28	
37	CAPACITOR	120pF, 50V, 1608, +-5%, CAP-CHIP			1	EA		C30	
38	CAPACITOR	20pF, 50V, 1608, +-5%, CAP-CHIP			1	EA		C56	
39	CAPACITOR	200pF, 50V, 1608, +-5%, CAP-CHIP			2	EA		C29, C24	

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40	CAPACITOR	220pF, 50V, 1608, +-5%, CAP-CHIP			4	EA		C1,C2,C4,C8	
40	CAPACITOR	1uF, 50V, 1608, +-5%, CAP-CHIP			1	EA		C10	
41	CAPACITOR	1uF, 16V, A-SIZE, CAP-TANTAL			4	EA		C3,C5,C6,C7	
42	CAPACITOR	10uF, 6.3V, A-SIZE, CAP-TANTAL			8	EA		C14,C16,C33,C37, C42,C43,C54,C55	
43	CAPACITOR	100uF, 10V, D-SIZE, CAP-TANTAL,			1	EA		C38	
44	CAPACITOR	220uF, 6.3V, D-SIZE, CAP-TANTAL,			1	EA		C39	
45	SOCKET	SIMLOCK	TM430705311	TMTECH	4	EA		J11,J13	J12,J14 OPTION
46	INDUCTOR	CHIP INDUCTOR, 2012J, 0.82uH		Samsung ele	2	EA		L1,L2	
47	BEAD	CHIP BEAD, 2012, 33 Ohm	C1B21P330NE	Samsung ele	6	EA		BD1,BD2,BD3,BD 4,BD5,BD6	
48	DIODE	SWITCHING DIODE, KDS184, SOT-23	KDS184	KEC	8	EA		D6,D7,D8,D9,D10, D11,D12,D13	
48	DIODE	SMALL SINGLE DIODE, 1N4148, SMD	1N4148		2	EA		D14,D15	
49	DIODE	SCHOTTKY BARRIER RECTIFIER, 40V, 1A, SS14	LL5819 SM5819 SS14	TSC SEMTECH JGD	1	EA		D5	
50	TRANSISTOR	TR-PNP, 2N3906, SOT-23			9	EA		Q1,Q2,Q3,Q4,Q5, Q6,Q7,Q8,Q9	
51	LED	BLUE, DIP, 3 PI			1	EA		D1	
52	LED	YELLOW, DIP, 3 PI			1	EA		D2	
53	LED	RED, DIP, 3 PI			1	EA		D4	

