

MODEL : Main LOGIC

DATE:

PART NO.	PART NAME	SPECIFICATION	Q'TY	REF NO.	REMA
WML-REV01	Logic PCB	Main Logic PCB	1		
P80C32-1	MPU	DIP 40	1	UD1	
MC74HC373D	LATCH	SOIC 20	1	UD2	
M27C512	BIPOLAR PROM	DIP 28	1	UD3	
GM76C256	SRAM	DIP 28	1	UD4	
MC74HC138D	DECODER	SOIC 16	1	UD5	
S-29530A	EEPROM	SOIC 8	1	UD7	
HD74HC14D	INVERTER	SOIC 14	1	UD12	
DS1609S	DUAL PORT RAM	DIP 24 or SOIC 24	2	UD11, UD13	
ELM9736NBA	VOLTAGE DETECTOR	SOT-23	1	UD8	
LM1085IS-ADJ	REGULATOR	TO-263	1	UP2	
MMBT2222A	NPN TR.	NPN, SOT 23	3	Q1, Q3, Q4	
MMBT2907A	PNP TR.	PNP, SOT 23	1	Q2	
MAX232CPE	RS-232 TRANCEIVER	DIP 16	1	UD9	
MA729(SDB310D)	DIODE	SHOTTKEY DIODE	1	D4	
RED	LED	5 PI, 2PIN, RED	1	D1	
GREEN	LED	5 PI, 2PIN, GREEN	1	D3	
TWO COLOR	LED	5PI, 3PIN, RED&GREEN	1	D2	
JRA2103-F	POWER S/W		1	ON/OFF	
40 PIN SOCKET	IC SOCKET	DIP 40 - 600 (For P80C32, 8255A)	2	UD1, UD6	
28 PIN SOCKET	IC SOCKET	DIP 28 - 600 (For 27C512, 62256)	1	UD3, UD4	
24 PIN SOCKET	IC SOCKET	DIP 24 - 600 (For DS1609)	2	UD11, UD13	
16 PIN SOCKET	IC SOCKET	DIP 16 (For MAX232)	1	UD9	
8 PIN SOCKET	IC SOCKET	DIP 8 (EEPROM)	1	UD7	
12 MHz	CRYSTAL	12MHz, 2 PIN, HALF TYPE	1	OSC1	
MCR03EZJ000	CHIP RESISTOR	0603, 5%, 0	1	L2	
MCR03EZJ010	CHIP RESISTOR	0603, 5%, 10	1	RS1	
MCR03EZJ121	CHIP RESISTOR	0603, 5%, 120	3	R20, R31, R33	
MCR03EZJ221	CHIP RESISTOR	0603, 5%, 220	3	R2, R3, R11	
MCR03EZJ361	CHIP RESISTOR	0603, 5%, 360	1	R21	
MCR03EZJ102	CHIP RESISTOR	0603, 5%, 1K	3	R30, R32, RS2	
MCR03EZJ103	CHIP RESISTOR	0603, 5%, 10K	3	R15, R16, R17	
MCR03EZJ104	CHIP RESISTOR	0603, 5%, 100K	25	R5, R6, R10, R12, R13, R18, R19, R23, R24	
CL10C150JBNC	CHIP CAP.	0603, +-5%, 15pF	2	C4, C5	
CL10B102KBNC	CHIP CAP.	0603, +-10%, 1nF	1	C10	
CL10B104KONC	CHIP CAP.	0603, +-10%, 100nF	21	C1, C2, C3, CB1-CB12, CB14, CB16-CB20	
47uF/16V	TANTAL CAP.	47uF/16v, C-TYPE	3	CP1, CP2, CP3	
1uF/16V	TANTAL CAP.	1uF/16V, B-TYPE	5	CP4, CCP2-CCP5	
AP5845-100	POWER INDUCTOR	10uH 1.5A dc	1	L1	

AT89C52-12JC	MPU		2	U1, U2	
ZTTC3.00MG-TF	RESONATOR	3 PIN SMD TAPING	2	Y1, Y2	
M3024-05	CONNECTOR	FEMALE	6	TXCON1, TXCON2, J3-J6	
PLCC 44	IC SOCKET	PLCC 44	2	U1. U2	
D-SUB(M) 9 PIN	CONNECTOR	9 PIN MALE, PCB MOUNT RIGHT ANG	2	J1, J2	
HTJ-020-04A	ADAPTER JACK	Out:5.5pi, In:2pi	1	UP1	
420MHz Antenna	ANTENNA	420MHz	2		
9V, 2A	ADAPTER	9V, 2A SMPS	1		
BNC(FE)-OPEN RG316S	CABLE ASS'Y	100mm	1		
BNC(FE)-SMA(M) RG316S	CABLE ASS'Y	100mm	1		
SMA(M)-OPEN RG316S	CABLE ASS'Y	100mm	2		
LED			2		
2 LED			1		
D-SUB(M) Cap	Cap		2		
D-SUB(F) 9 PIN	CONNECTOR		2		
Cable	Cable		1		
LED Cap	Cap		3		

MODEL : Main RX RF

DATE:

PART No.	PART NAME	SPECIFICATION	Q'TY	REF NO.	REMA
WMRXRF-REV01	RF PCB	Size : 45mm X 29mm	1	PCB	
KA8514	IF IC	SO 20	1	IC1	
KS8809	PLL IC	TSSOP-16	1	IC2	
2SC4226	TR	2SC4226(R25)	3	Q1, Q5, Q13	
2SC4784	TR	2SC4784	1	Q8	
QSBT0040-TR1	TR	QSBT0040-TR1(310D), SOT-23	1	Q7	
MMBT2907A	TR	MMBT2907A, SOT-23	1	Q10	
S-814A30AMC	Regulator	SOT-23-5	1	IC3	
KSF430CC1	SAW FILTER	SMD (430MHz)	1	F1	
TZV02R060A110T00	TRIMMER CAP.	6pF, 2 pi	1	VC4	
TZV02R100A110T00	TRIMMER CAP.	10pF, 2 pi	1	VC3	
4MCS106MATER	CHIP TANTAL CAP.	10uF	4	C1, C36, C66, C67	
MCR03EZHJ000	CHIP RESISTOR	0603, 5%, 0	2	R0, R31	
MCR03EZHJ100	CHIP RESISTOR	0603, 5%, 10	3	R33, R44, R58	
MCR03EZHJ510	CHIP RESISTOR	0603, 5%, 51	1	R1	
MCR03EZHJ221	CHIP RESISTOR	0603, 5%, 220	1	R60	
MCR03EZHJ471	CHIP RESISTOR	0603, 5%, 470	1	R3	
MCR03EZHJ681	CHIP RESISTOR	0603, 5%, 680	1	R34	
MCR03EZHJ222	CHIP RESISTOR	0603, 5%, 2.2K	1	R7	
MCR03EZHJ332	CHIP RESISTOR	0603, 5%, 3.3K	1	R41	
MCR03EZHJ472	CHIP RESISTOR	0603, 5%, 4.7K	1	R17	
MCR03EZHJ103	CHIP RESISTOR	0603, 5%, 10K	2	R72, R125	
MCR03EZHJ123	CHIP RESISTOR	0603, 5%, 12K	1	R64	
MCR03EZHJ223	CHIP RESISTOR	0603, 5%, 22K	2	R4, R9	
MCR03EZHJ333	CHIP RESISTOR	0603, 5%, 33K	2	R62, R66	
MCR03EZHJ683	CHIP RESISTOR	0603, 5%, 68K	3	R14, R16, R69	

MCR03EZHJ104	CHIP RESISTOR	0603, 5%, 100K	3	R5, R6, R8	
CL10C020CBNC	CHIP CAP.	0603, +-0.25pF, 2pF	1	C54	
CL10C2R5BBNC	CHIP CAP.	0603, +-0.1pF, 2.5pF	1	C3	
CL10C040CBNC	CHIP CAP.	0603, +-0.25pF, 4pF	1	C57	
CL10C050CBNC	CHIP CAP.	0603, +-0.25pF, 5pF	1	C13	
CL10C070CBNC	CHIP CAP.	0603, +-0.25pF, 7pF	2	C2, C18	
CL10C080CBNC	CHIP CAP.	0603, +-0.25pF, 8pF	2	C86, C114	
CL10C100JBNC	CHIP CAP.	0603, +-5%, 10pF	1	C21	
CL10C120JBNC	CHIP CAP.	0603, +-5%, 12pF	1	C81	
CL10C150JBNC	CHIP CAP.	0603, +-5%, 15pF	2	C14, C113	
CL10C220JBNC	CHIP CAP.	0603, +-5%, 22pF	1	C80	
CL10C270JBNC	CHIP CAP.	0603, +-5%, 27pF	1	C61	
CL10C330JBNC	CHIP CAP.	0603, +-5%, 33pF	3	C6, C63, C87	
CL10C470JBNC	CHIP CAP.	0603, +-5%, 47pF	1	C79	
CL10C680JBNC	CHIP CAP.	0603, +-5%, 68pF	1	C115	
CL10C101JBNC	CHIP CAP.	0603, +-5%, 100pF	2	C51, C85	
CL10C471JBNC	CHIP CAP.	0603, +-5%, 470pF	2	C45, C50	
CL10B102KBNC	CHIP CAP.	0603, +-10%, 1nF	9	C4, C10, C11, C37,	
CL10B182KBNC	CHIP CAP.	0603, +80-20%, 1.8nF	1	C121	
CL10B472KBNC	CHIP CAP.	0603, +80-20%, 4.7nF	1	C82	
CL10B682KBNC	CHIP CAP.	0603, +80-20%, 6.8nF	1	C12	
CL10B103KBNC	CHIP CAP.	0603, +80-20%, 10nF	5	C5, C9, C52, C59, C74	
CL10B473KBNC	CHIP CAP.	0603, +80-20%, 47nF	1	C83	
CL10B104KONC	CHIP CAP.	0603, +80-20%, 100nF	3	C64, C65, C68	
CL21F474ZONC	CHIP CAP.	0805, +-10%, 470nF	1	C88	
CL10F105ZONC	CHIP CAP.	0603 +-10%, 1uF	2	C78, C118	
HK1608 10NJ	CHIP INDUCTOR	0603TYPE, +-5%, 10nH	1	L9	
HK1608 12NJ	CHIP INDUCTOR	0603TYPE, +-5%, 12nH	1	L3	
HK1608 18NJ	CHIP INDUCTOR	0603TYPE, +-5%, 18nH	1	L6	
HK1608 22NJ	CHIP INDUCTOR	0603TYPE, +-5%, 22nH	1	L7	
LMC2012T-220K	CHIP INDUCTOR	0805TYPE, +-5%, 22nH	1	L11	
LK21253R3K	CHIP INDUCTOR	3.3uH, 2012 TYPE	1	L1	
HVC357B	VARI-CAP DIODE	2012 TYPE	1	D1	
20.945MHz	2nd LO CRYSTAL	20.945MHz 20ppm, 20pF	1	X6	
21.4M15A	MCF (CRYSTAL FILTER)	MCF 21.4MHz UM-5 TYPE	1	F3	
	CERAMIC FILTER	5PIN, DIP TYPE	1	F7	
NF455C28	DISCRIMINATOR	455KHz, 2 TERMINAL	1	X8	
12.8MHz	REFERENCE CRYSTAL	12.8MHz +-15ppm, DIP TYPE	1	X1	
5 pin connector	CONNECTOR	2.54 pitch	2	J1, J2	

MODEL : WDMS Main TX RF

DATE:

PART No.	PART NAME	SPECIFICATION	Q'TY	REF NO.	REMA
12.8MHz TCXO	REFERENCE CRYSTAL		1	X1	
5 pin connector	CONNECTOR		2	J1,J2	
WMTXRF-REV01	PCB		1		
TB31202FN	PLL IC		1	IC2	
S-814A50AMC-BDO-T2	REGULATOR	5V	1	IC1	
458M	SAW FILTER	SMD Type	1	SAW1	
LM358M	DUAL OP. AMP.	SOIC-8	1	IC3	
R1601	TR		1	Q6	
1SV229	DIODE		2	D1,D2	
SDP510	DIODE		2	D3,D4	

MMBT2907A	TR	PNP	1	Q1	
STC2411Y	TR	PNP	1	Q2	
2SC4226(R25)	TR		3	Q3,Q4,Q5	
MCR03EZJ000	CHIP RESISTOR	0603, 5%, 0	4	R9,R17,R31,L10	
	CHIP RESISTOR	0603, 5%, 1	1	R29	
MCR03EZJ100	CHIP RESISTOR	0603, 5%, 10	2	R5,PR51	
MCR03EZJ120	CHIP RESISTOR	0603, 5%, 11	1	R27	
MCR03EZJ510	CHIP RESISTOR	0603, 5%, 51	1	R21	
MCR03EZJ101	CHIP RESISTOR	0603, 5%, 100	3	R32,R33,R34	
MCR03EZJ221	CHIP RESISTOR	0603, 5%, 220	2	R16,R23	
MCR03EZJ471	CHIP RESISTOR	0603, 5%, 221	3	R26,R28,R37	
MCR03EZJ102	CHIP RESISTOR	0603, 5%, 1k	1	R3	
MCR03EZJ472	CHIP RESISTOR	0603, 5%, 4.7k	2	R22,R30	
MCR03EZJ512	CHIP RESISTOR	0603, 5%, 5.1k	3	R10,R11,R35	
MCR03EZJ103	CHIP RESISTOR	0603, 5%, 10k	7	PR52,PR53,R1,R6,R7,	
MCR03EZJ123	CHIP RESISTOR	0603, 5%, 12k	1	R8	
MCR03EZJ153	CHIP RESISTOR	0603, 5%, 15k	2	R13,R15	
MCR03EZJ183	CHIP RESISTOR	0603, 5%, 15k	1	R18	
MCR03EZJ273	CHIP RESISTOR	0603, 5%, 27k	3	R14,R24,R25	
MCR03EZJ473	CHIP RESISTOR	0603, 5%, 27k	1	R19	
MCR03EZJ104	CHIP RESISTOR	0603, 5%, 100k	1	R4	
MVR32-KXBR-103	VARIABLE RESISTOR	10k	1	VR2	
MVR32-KXBR-104	VARIABLE RESISTOR	100k	1	VR1	
CL10C010JBNC	CHIP CAP.	0603, +-5%, 2pF	2	C34,C35	
CL10C030JBNC	CHIP CAP.	0603, +-5%, 3pF	1	C21	
CL10C070JBNC	CHIP CAP.	0603, +-5%, 7pF	1	C19	
CL10C080JBNC	CHIP CAP.	0603, +-5%, 8pF	1	C22	
CL10C090JBNC	CHIP CAP.	0603, +-5%, 9pF	1	C32	
CL10C100JBNC	CHIP CAP.	0603, +-5%, 10pF	3	C2,C20,C26	
CL10C150JBNC	CHIP CAP.	0603, +-5%, 15pF	5	C23,C25,C27,C29,C31	
CL10C220JBNC	CHIP CAP.	0603, +-5%, 16pF	1	C33	
CL10C680JBNC	CHIP CAP.	0603, +-5%, 68pF	1	C3	
CL10C101JBNC	CHIP CAP.	0603, +-5%, 100pF	4	C4,C6,C11,C24	
CL10C331JBNC	CHIP CAP.	0603, +-5%, 330pF	1	C5	
CL10C561JBNC	CHIP CAP.	0603, +-5%, 560pF	2	C7,C10	
CL10B102KBNC	CHIP CAP.	0603, +-5%, 1nF	5	C1,C12,C13,C14,CB7	
CL10B122KBNC	CHIP CAP.	0603, +-5%, 1.2nF	1	C8	
CL10B222KBNC	CHIP CAP.	0603, +-5%, 1.3nF	1	C18	
CL10B103KBNC	CHIP CAP.	0603, +-5%, 10nF	4	PC90,CB4,CB6,CB12	
CL10B223KBNC	CHIP CAP.	0603, +-5%, 11nF	1	C16	
CL10B104KBNC	CHIP CAP.	0603, +-10%, 100nF	7	C17,CB1,CB2,CB3,	
CL21B225KBNC	CHIP CAP.	0603, +-10%, 101nF	3	PC91,PC93,C9	
TZV02R060A110T00	TRIMMER CAP.	6pF	1	VC2	
TZV02R100A110T00	TRIMMER CAP.	10pF	1	VC1	
10uF/16V(B2)	TANTAL CAP.	10uF/16V(B2)	4	CT3,CT4,CT5,CT6	
47uF/16V(C)	TANTAL CAP.	47uF/16V(C)	2	CT1,CT2	
HK1608 10NJ	CHIP INDUCTOR	0603TYPE, +-5%, 10nH	2	L7,L8	
HK1608 22NJ	CHIP INDUCTOR	0603TYPE, +-5%, 22nH	2	L9,L11	
HK1608 27NJ	CHIP INDUCTOR	0603TYPE, +-5%, 23nH	1	L3	
HK1608 33NJ	CHIP INDUCTOR	0603TYPE, +-5%, 24nH	1	L4	
HK1608 47NJ	CHIP INDUCTOR	0603TYPE, +-5%, 25nH	1	L6	
LMC2012T-150K	COIL INDUCTOR	WOUND	1	LW2	
LMC2012T-220K	COIL INDUCTOR	WOUND	1	LW1	
LMC2012T-151K(?)	COIL INDUCTOR	WOUND	1	LW5	
