

No	Reference	Description	Specification	Parts Number	Manufacturer	Qty	Note
1	U1	MCU	RA4W1(56QFN, ROM:512K, RAM:96K)	R5F523W8ADNG	Renesas	1	-
2	U2	USB SERIAL BASIC UART	-	FT234XD	FTDI	1	-
3	ANT1	Antena	-	AM03DP-ST01	Mitsubishi Materials	1	-
4	L1	Inductor	2.4nH,1005,±0.1nH	LQW15AN2N4B00	murata	1	-
5	L2	Inductor	6.2nH,1005,±5%	LQW15AN6N2B00	murata	1	-
6	L3	Inductor	1.8nH,1005,±0.1nH	LQW15AN1N8C00	murata	1	-
7	L4	Inductor	7.5nH,1005,±5%	LQG15HS7N5J02	murata	1	-
8	C4	Ceramic Capacitor:RF BLOCK	2.2uF,1005,16V,10%	GRM155R61C225K	murata	1	-
9	C6	Ceramic Capacitor:RF BLOCK	0.47uF,1005,25V,10%	GRT155R61E474K	murata	1	-
10	C7	Ceramic Capacitor:RF BLOCK	0.5pF,1005,50V,±0.05pF	GRM1555C1HR50W	murata	1	-
11	C14	Ceramic Capacitor:RF BLOCK	0.1uF,1005,16V,10%	GCM155R71C104K	murata	1	-
12	R3	Resistor:RF BLOCK	0Ω,1608,0	MCR03EZPJ000	ROHM	1	-
13	R4	Resistor:RF BLOCK	0Ω,1005,0	MCR01MZPJ000	ROHM	1	-
14	CN9	RF connector	-	MM8030-2610RJ3	murata	1	-
15	CN6	Angle type PMOD connector	Female-connector,2x6poles,SMD	SMH-106-02-T-D	Samtec	1	-
16	CN7,CN8	28-pin Header(PTH)	28x2poles 2.54mm	FFC-14BMEP1	HTK	0	Unmounted
17	CN5	Micro USB type B connector	microUSB	UB-MC5BR3-SD204-4S-1-TBNMP	JST	1	-
18	CN2	6 Pin Female Socket	Female-connector,1x6poles	PPPC061LFBN-RC	Sullins Connector Solutions	0	Unmounted
19	CN1,CN4	8 Pin Female Socket	Female-connector,1x8poles	PPPC081LFBN-RC	Sullins Connector Solutions	0	Unmounted
20	CN3	10 Pin Female Socket	Female-connector,1x10poles	PPPC101LFBN-RC	Sullins Connector Solutions	0	Unmounted
21	J1,J6,J7	2-pin Jumper(PTH)	-	FFC-2AMEP1	HTK	0	Unmounted
22	SW1,RESET	Tactile Switch	-	PTS645SM43SMTR92 LFS	C&K	2	-
23	X1	Crystal oscillator	8MHz,SMD,±100ppm	CX5032GA08000D0PRT03	Kyocera	0	Unmounted
24	X2	Ceramic Resonators	8MHz,Lead,±0.5%	CSTLS8M00G53-A0	Murata	0	Unmounted
25	X3	Crystal oscillator	32.768kHz,SMD,±20ppm	TFX-02S-32.768KHZ-J31936	RIVER ELETEC	0	Unmounted
26	X4	Crystal oscillator	32MHz,SMD,±2.6ppm	CX1612DB32000A0WPNC1	Kyocera	1	-
27	LED0,LED1,LED2	LED	Green,1608,25mcd	SML-D12M8WT86	ROHM	3	-
28	C1,C18,C19	Tantalum Capacitor	10uF,3528,16V	TAJB 106 K 016	AVX	3	-
29	C2,C3,C12,C13,C20,C21,C22	Ceramic Capacitor	0.1uF,0603,16V,±10%	GRM033C71C104K	Murata	7	-
30	C5	Ceramic Capacitor	4.7uF,0603,6.3V,±20%	GRM035R60J475M	Murata	1	-
31	C8,C9,C10,C11	Ceramic Capacitor	1608	GRM18	Murata	0	Unmounted
32	C15	Ceramic Capacitor	1uF,0603,10V,±20%	GRM033R61A105M	Murata	1	-
33	C16,C17	Ceramic Capacitor	47pF,0603,25V,5%	GRM0335C1E470J	Murata	2	-
34	D1	Diode	Vr=50V,DO-214BA ,Io=1A	GF1A-E3/67A	Vishay	1	-
35	D2	Schottky Diode	Vr=20V,Io=1A,SMD	RB491DT146	ROHM	1	-
36	GND1,GND2,GND3	Test Pin (GND)	SEL1-3_E2OB	LC-22-G (Black)	MAC-8	0	Unmounted
37	R38	Resistor	0Ω,1005,1/16W	MCR01MZPJ000	ROHM	1	-
38	R5,R9,R11,R12,R14,R15,R17,R19	Resistor	0Ω,1608,1/10W	MCR03EZPJ000	ROHM	8	-
39	R6,R8,R16,R18,R20,R21	Resistor	0Ω,1608,1/10W	MCR03EZPJ000	ROHM	0	Unmounted
40	R7,R10	Resistor	1608	MCR03	ROHM	0	Unmounted
41	R1,R13,R22,R34,R35	Resistor	10kΩ,1005,1/16W	MCR01MZPJ103	ROHM	5	-
42	R23	Resistor	22kΩ,1005,1/16W	MCR01MZPJ223	ROHM	1	-
43	R24,R25,R26,R27,R28,R29,R30,R31, R39,R40,R41,R42	Resistor	200Ω,1005,1/10W	MCR01MZPJ201	ROHM	12	-
44	R2,R32,R33	Resistor	1kΩ,1005,1/16W	MCR01MZPJ102	ROHM	3	-
45	R36,R37	Resistor	27Ω,1005,1/16W	MCR01MZPJ270	ROHM	2	-
46	EU2	Low Dropout Linear Regulator	Fixed 1 Output 3.3V 300mA 8-DFN	ISL9005AIRNZ-T	Renesas	1	-
47	EC4	Ceramic Capacitor	1uF,0603,10V,±20%	GRM033R61A105M	Murata	1	-
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REVISION HISTORY	EK-RA4W1
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		Page	Summary
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