

No	Reference	Description	Specification	Parts Number	Manufacturer	Qty	Note
1	U1	MCU	RX140,64-pin LFGFP,64-KB ROM	R5F51403ADFM	Renesas	1	
2	X1	Crystal oscillator	8MHz,SMD,±100ppm	CX5032GA08000D0PRT03	KYOCERA	0	Unmounted
3	X2	Ceramic Resonators	8MHz,TH,±0.5%	CSTLS8M00G53-A0	Murata	0	Unmounted
4	X3	Crystal oscillator	32.768kHz,SMD,±20ppm	TFX-02S-32.768KHZ-J31936	RIVER ELETEC	0	Unmounted
5	C1,C3,C11,C17	Tantalum Capacitor	10uF,3528m,16V	TAJB 106 K 016	AVX	4	
6	C8	Tantalum Capacitor	10uF,3528m,16V	TAJB 106 K 016	AVX	0	Unmounted
7	C2,C4,C7,C10	Ceramic Capacitor	0.1uF,0603m,16V,±10%	GRM033C71C104K	Murata	4	
8	C5	Ceramic Capacitor	4.7uF,0603m,6.3V,±20%	GRM035R60J475M	Murata	1	
9	C6,C9	Ceramic Capacitor	0.01uF,0603m,16V,±10%	GRM033B31C103K	Murata	2	
10	C16	Ceramic Capacitor	0.01uF,1608m,50V,±10%	GRM188B11H103K	Murata	0	Unmounted
11	C12,C13,C14,C15	Ceramic Capacitor	1608m	GRM188	Murata	0	Unmounted
12	D1	Diode (Power)	Vr=50V,DO-214BA ,Io=1A	GF1A-E3	Vishay	1	
13	GND1,GND2,GND3	Test Pin (GND)	TH	LC-22-G (Black)	MAC-8	0	Unmounted
14	T1	Test Pin (Yellow)	TH	LC-22-G (Yellow)	MAC-8	0	Unmounted
15	CN2,CN3	16 pin x 2 row Connector	32-pin 2.54mm 2-row Straight TH	FFC-16BMEP1	HTK	0	Unmounted
16	CN1	Angle type PMOD connector(SMD)	6-pin x 2, SMD	SMH-106-02-T-D	Samtec	1	
17	J3,J4,J5	2-pin Jumper(PTH)	2-pin TH	FFC-2AMEP1	HTK	0	Unmounted
18	J1,J2	3-pin Jumper(PTH)	3-pin TH	FFC-3AMEP1	HTK	0	Unmounted
19	POWLED1,LED0,LED1	LED (Green)	Green,1608m,25mcd	SML-D12M8WT86	ROHM	3	
20	RES1,SW1	Tactile Switch	Tactile Switch, SMD	PTS645SM43SMTR92 LFS	C&K	2	
21	R3,R4,R6,R7,R11,R15,R17,R18,R20	Resistor	0Ω,1608m,1/10W	MCR03EZPJ000	ROHM	9	
22	R1,R2,R8,R9,R12,R14,R19,R22,R23	Resistor	0Ω,1608m,1/10W	MCR03EZPJ000	ROHM	0	Unmounted
23	R5	Resistor	4.7kΩ,1005m,1/16W	MCR01MZPJ472	ROHM	1	
24	R21,R26,R27,R28,R37	Resistor	10kΩ,1005m,1/16W	MCR01MZPJ103	ROHM	5	
25	R13,R16,R38,R39	Resistor	1608m	MCR03 Series	ROHM	0	Unmounted
26	R10,R24,R25	Resistor	1kΩ,1005m,1/16W	MCR01MZPJ102	ROHM	3	
27	R29,R30,R31,R32,R33,R34,R35,R36	Resistor	200Ω,1005m,1/16W	MCR01MZPJ201	ROHM	8	
28	EU2	Low Dropout linear regulator	Fixed 1 Output 3.3V 300mA 8-DFN	ISL9005AIRNZ-T	Renesas	1	
29	ED1	Diode	Vr=20V,SOT-346,Io=1A	RB491D	ROHM	1	
30	EC4,EC5	Ceramic Capacitor	1uF,0603m,10V,±20%	GRM033R61A105M	Murata	1	
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REVISION HISTORY	Target Board for RX140 BOM List
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Rev	Date	Description	
		Page	Summary
1.00	Mar 1, 2021	-	First Edition issued