

| 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-16BMPEP1             | 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 |                      |
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|      |             | Page        | Summary              |
| 1.00 | Mar 1, 2021 | -           | First Edition issued |