

AccelR1 BOM

| Quantity | Designator                                 | PartType             | DescSheet          | VendorPartNo      | Vendor   | Reference  | Cost/ea | Description                                | Manufacturer   | ManufPartNo     | Footprint               |
|----------|--------------------------------------------|----------------------|--------------------|-------------------|----------|------------|---------|--------------------------------------------|----------------|-----------------|-------------------------|
| 1        | BT1                                        | Lith 3V ButtonCell   | 48mAh              | P192-ND           | Digi-Key | T041, 1120 | 1.508   | Multicell Battery                          | Panasonic      | BR1225-1VC      | BR1225                  |
| 2        | C1, C2                                     | 0.1uF                | 16V,cer            | PCC1870CT-ND      | Digi-Key | T041, 822  | 0.183   | Capacitor                                  | Panasonic      | ECJ-3VB1C104K   | 1206                    |
| 4        | C3, C4, C5, C6                             | Cx,330nF, Cy,330nF   | 1nF-470nF,50V, X7R | PCC1834CT-ND      | Digi-Key | T041, 820  | 0.085   | Capacitor                                  | Panasonic      | ECJ-2VB1H333K   | 0805                    |
| 1        | C7                                         | 47uF                 | 6.3V,cer           | PCC2301CT-ND      | Digi-Key | T041, 823  | 3.498   | Capacitor                                  | Panasonic      | ECJ-4YB0J476M   | 1210                    |
| 1        | C8                                         | 20pF                 | 50V,NP0            | PCC200CCT-ND      | Digi-Key | T041, 821  | 0.121   | Capacitor                                  | Panasonic      | ECU-V1H200JCM   | 1206                    |
| 1        | C9                                         | 220pF                | 50V,X7R            | PCC221BCT-ND      | Digi-Key | T041, 822  | 0.108   | Capacitor                                  | Panasonic      | ECU-V1H221KBM   | 1206                    |
| 1        | C10                                        | 10uF                 | 10V,cer            | PCC2178CT-ND      | Digi-Key | T041, 822  | 0.513   | Capacitor                                  | Panasonic      | ECJ-3YB1A106M   | 1206                    |
| 4        | C11, C12, C13, C14                         | 10uF                 | 6.3V,X5R           | PCC2327CT-ND      | Digi-Key | T041, 821  | 0.365   | Capacitor                                  | Panasonic      | ECJ-CV50J106M   | 0805                    |
| 10       | J1, J4, J5, J6, J7, J9, J12, TP1, TP2, TP3 | BBC, DB-9 Female, Gr |                    |                   |          |            |         | Connector, DB-9 Female, Pad Pin for testpc |                |                 | PIN38, PINS3-14, PINS22 |
| 1        | J2                                         | RS-232               | Gold               | WM4901-ND         | Digi-Key | T041, 97   | 0.785   | Connector 3 pin socket                     | Molex          | 70553-0002      | CGRID3-RA               |
| 1        | J3                                         | RS-232 Plug          | Plug               | WM2901-ND         | Digi-Key | T041, 96   | 0.508   | Connector 3 pin plug                       | Molex          | 50-57-9403      | SIP3-2mm                |
| 1        | J8                                         | BBC                  | Right Angle        | WM6306-ND         | Digi-Key | T041, 94   | 0.59    | Connector                                  | Molex          | 22-28-8063      | SIP6                    |
| 1        | J10                                        | Batts                | Gold               | WM4900-ND         | Digi-Key | T041, 97   | 0.60    | Connector 2 pin socket                     | Molex          | 70553-0001      | CGRID2-RA               |
| 1        | J11                                        | Batts Plug           | Plug               | WM2900-ND         | Digi-Key | T041, 96   | 0.38    | Connector 2 pin plug                       | Molex          | 50-57-9402      | SIP2                    |
| 1        | JP4                                        | JP-VBBKen            | 2mm                | 2163S-36-ND       | Digi-Key | T041, 78   | 2.80    | Connector                                  | NorComp        | 2163-36-01-P2   | SIP2-2mm                |
| 1        | L1                                         | 56uH                 | 0.73A,0.277ohm     | 308-1233-1-ND     | Digi-Key | T041, 655  | 1.00    | Inductor                                   | Sumida         | CDRH6D28-560NC  | CDRH6D28                |
| 2        | L2, L3                                     | 2000ohm              | 300mA ferrite      | 240-2211-1-ND     | Digi-Key | T041, 699  | 0.234   | Inductor                                   | Steward        | HZ0805C202R-00  | 0805                    |
| 2        | R1, R2                                     | Rset                 | 125k-1.25M         | 9C12063AXXXFKHFT  | Digi-Key | T041, 861  | 0.088   | Resistor                                   | Yaego          | 311-valueFCT-ND | 1206                    |
| 1        | R3                                         | 887K                 | 1%, 1/4W           | 9C12063A887KFKHFT | Digi-Key | T041, 861  | 0.088   | Resistor                                   | Yaego          | 311-887KFCT-ND  | 1206                    |
| 1        | R4                                         | 280K                 | 1%, 1/4W           | 9C12063A280KFKHFT | Digi-Key | T041, 861  | 0.088   | Resistor                                   | Yaego          | 311-280KFCT-ND  | 1206                    |
| 2        | S1, S2                                     | Reset, Wake          |                    | P12269SCT-ND      | Digi-Key | T041, 932  | 0.68    | Push Button                                | Panasonic      | EVQ-PPHA25      | SMT-PB-EVQ-PPHA25       |
| 2        | U1, U2                                     | ADXL210E             | +/-10g             | ADXL210JE         | Arrow    |            | 20.60   | Accelerometer, Dual-axis, PWM, +/-10g      | Analog Devices | ADXL210JE       | LCC-E8                  |
| 1        | U3                                         | LTC1877              | 600mA Sw           | LTC1877EMS8       | Arrow    |            | 3.43    | Synchronous Step-Down Converter            | Linear         | LTC1877EMS8     | MSOP-8                  |
| 1        | W1                                         | VBBKen               | 2mm Shunt          | SP2-001-ND        | Digi-Key | T041, 78   | 0.128   | Jumper Wire                                | NorComp        | 800-002-SP2-001 |                         |