

## PROPBOARD 1.7 BOM

| Part | Value            | Device                         | Description                                  | MF                  | MPN             |
|------|------------------|--------------------------------|--|---------------------|-----------------|
| C1   | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C2   | 10uF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C3   | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C4   | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C5   | 2.2nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C6   | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C7   | 10uF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C8   | 47pF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C9   | 47pF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C10  | 10nF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C11  | 4.7uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C12  | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C13  | 1uF              | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C14  | 10uF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C15  | 10uF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C16  | 1uF              | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C17  | 2.2uF 25V        | C0603                          | CAP SMD 0603 NP                              |                     |                 |
| C18  | 4.7uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C19  | 1uF              | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C20  | 2.2uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C21  | 2.7nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C22  | 22uF 25V         | C0805                          | CAP SMD 0805 NP                              |                     |                 |
| C23  | 2.2uF 25V        | C0603                          | CAP SMD 0603 NP                              |                     |                 |
| C24  | 4.7uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C25  | 4.7uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C26  | 10uF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C27  | 2.2uF 25V        | C0603                          | CAP SMD 0603 NP                              |                     |                 |
| C28  | 4.7uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C29  | 1nF              | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C30  | 4.7uF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C31  | 22uF 25V         | C0805                          | CAP SMD 0805 NP                              |                     |                 |
| C32  | 22uF 25V         | C0805                          | CAP SMD 0805 NP                              |                     |                 |
| C33  | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C34  | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C35  | 10uF             | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C36  | 100nF            | C0402                          | CAP SMD 0402 NP                              |                     |                 |
| C37  | 22uF 25V         | C0805                          | CAP SMD 0805 NP                              |                     |                 |
| D1   | DNP              | DIO-SCHOTTKY-10V-1A-BAT60JFILM | Schottky Diodes & Rectifiers 3.0 Amp 10 Volt | ST Microelectronics | BAT60JFILM      |
| D3   | BAT60            | DIO-SCHOTTKY-10V-1A-BAT60JFILM | Schottky Diodes & Rectifiers 3.0 Amp 10 Volt | ST Microelectronics | BAT60JFILM      |
| D4   | BAT60            | DIO-SCHOTTKY-10V-1A-BAT60JFILM | Schottky Diodes & Rectifiers 3.0 Amp 10 Volt | ST Microelectronics | BAT60JFILM      |
| J1   | USB 10118192-000 | CON-USB-MICRO-B-SMD            | USB-MICRO SMD Connector                      | FCI                 | 10118192-0001LF |

|     |                 |                                |  |                     |                    |
|-----|-----------------|--------------------------------|--|---------------------|--------------------|
| J2  | MICRO-SD-CON-M  | MICRO-SD-CON-MOLEX-503182-0852 | MicroSD connector Molex 503182-0852                                      | Molex               | 503182-1852        |
| L1  | SRN6028-3R9M    | IND-MURATA-DG6050C-SERIES      | Inductor Murata DG6050C Series   | Bourns              | SRN6028-3R9M       |
| L2  | SRN6028-3R9M    | IND-MURATA-DG6050C-SERIES      | Inductor Murata DG6050C Series   | Murata              | SRN6028-3R9M       |
| L3  | SRN6028-3R9M    | IND-MURATA-DG6050C-SERIES      | Inductor Murata DG6050C Series   | Murata              | SRN6028-3R9M       |
| L4  | BLM15           | L0402                          | Generic inductor SMT 0492  | Murata              | BLM15AG102SN1      |
| L5  | BLM15           | L0402                          | Generic inductor SMT 0492  | Murata              | BLM15AG102SN1      |
| Q1  | MOS_RTL035N03T  | MOS_RTL035N03TR                | N-Channel MOSFET 3.5A 30V SOT363-6                                       | ROHM Semiconductor  | RTL035N03TR        |
| Q2  | MOS_RTL035N03T  | MOS_RTL035N03TR                | N-Channel MOSFET 3.5A 30V SOT363-6                                       | ROHM Semiconductor  | RTL035N03TR        |
| Q3  | MOS_RTL035N03T  | MOS_RTL035N03TR                | N-Channel MOSFET 3.5A 30V SOT363-6                                       | ROHM Semiconductor  | RTL035N03TR        |
| R1  | 27E             | R0402                          | RES SMD 0402   |                     |                    |
| R2  | 27E             | R0402                          | RES SMD 0402   |                     |                    |
| R3  | 4.7K            | R0402                          | RES SMD 0402   |                     |                    |
| R4  | 4.7K            | R0402                          | RES SMD 0402   |                     |                    |
| R5  | 100K            | R0402                          | RES SMD 0402   |                     |                    |
| R6  | 560E            | R0402                          | RES SMD 0402   |                     |                    |
| R7  | 560E            | R0402                          | RES SMD 0402   |                     |                    |
| R8  | 10K             | R0402                          | RES SMD 0402   |                     |                    |
| R9  | 150K            | R0402                          | RES SMD 0402   |                     |                    |
| R10 | 150K            | R0402                          | RES SMD 0402   |                     |                    |
| R11 | 10K             | R0402                          | RES SMD 0402   |                     |                    |
| R12 | 10K             | R0402                          | RES SMD 0402   |                     |                    |
| R13 | 0E              | R0603                          | RES SMD 0603   |                     |                    |
| R14 | 0.1 Ohm         | R0805                          | RES SMD 0805   |                     |                    |
| R15 | 0.1 Ohm         | R0805                          | RES SMD 0805   |                     |                    |
| R16 | 0.1 Ohm         | R0805                          | RES SMD 0805   |                     |                    |
| R17 | 100K            | R0402                          | RES SMD 0402   |                     |                    |
| R18 | 10K             | R0402                          | RES SMD 0402   |                     |                    |
| R19 | 0E              | R0603                          | RES SMD 0603   |                     |                    |
| R20 | DNP             | R0402                          | RES SMD 0402   |                     |                    |
| R21 | 0E              | R0402                          | RES SMD 0402   |                     |                    |
| R22 | 10K             | R0402                          | RES SMD 0402   |                     |                    |
| R23 | 0E              | R0402                          | RES SMD 0402   |                     |                    |
| R25 | 1M              | R0402                          | RES SMD 0402   |                     |                    |
| R26 | 2K2             | R0402                          | RES SMD 0402   |                     |                    |
| R27 | 10K             | R0402                          | RES SMD 0402   |                     |                    |
| R28 | 154K 1%         | R0402                          | RES SMD 0402   |                     |                    |
| R29 | 47K 1%          | R0402                          | RES SMD 0402   |                     |                    |
| R32 | 10K             | RESISTOR-ARRAY-X4-0603         | Resistor Array X4 0603   |                     |                    |
| U1  | STM32F401RCT6   | STM32F401RCT6                  | ARM Cortex M4 STM32F401RCT6 LFP64  | ST Microelectronics | STM32F401RCT6      |
| U2  | MMA8452         | MMA8452                        | Accelerometes LOW G 3-AXIS 12BT EX VLT                                   | NXP                 | MMA8452QT          |
| U3  | WM8523GEDT      | WM8523GEDT                     | Audio D/A Converter ICs STEREO DAC                                       | Cirrus Logic        | WM8523GEDT         |
| U4  | FT231XQ-R       | FT231XQ-R                      | FT231XQ-R - USB to UART Bridge   | FTDI                | FT231XQ-R          |
| U5  | NCP59151MN50TYG | NCP59151MN50TYG                | 5V 1.5 A, Very Low-Dropout(VLDO) Fast TransientResponse Regulator Series | ON Semiconductors   | NCP59151MN50TYG    |
| U6  | IS31AP2005      | IS31AP2005-DLS2-TR             | Class-D 2.7W Audio Amplifier   | ISSI                | IS31AP2005-DLS2-TR |
| U7  | MCP1726-3.3V-DF | MCP1726-3.3V-DFN8-3X3          | 1A 3.3V Low Quiescent Current LDO Regulator                              | Microchip           | MCP1726T-3302E/MF  |

|     |              |                                  |  |                             |                 |
|-----|--------------|----------------------------------|--|-----------------------------|-----------------|
| U8  | DIO7003LDST5 | DIO7003LDST5                     | Power Switch 5.5V 1.5A   | DIO Microcircuits           | DIO7003LDST5    |
| U9  | LED2001      | LED2001-VFQFPN8                  | 4 A monolithic step-down current source with synchronous rectification | ST Microelectronics         | LED2001PUR      |
| U10 | LED2001      | LED2001-VFQFPN8                  | 4 A monolithic step-down current source with synchronous rectification | ST Microelectronics         | LED2001PUR      |
| U11 | LED2001      | LED2001-VFQFPN8                  | 4 A monolithic step-down current source with synchronous rectification | ST Microelectronics         | LED2001PUR      |
| U12 | MIC94091YC6  | MIC94091YC6                      | Load Switch 5.5V with load discharge. 1.5A                             | Microchip Technology/Micrel | MIC94091YC6-TR  |
| U13 | MIC94091YC6  | MIC94091YC6                      | Load Switch 5.5V with load discharge. 1.5A                             | Microchip Technology/Micrel | MIC94091YC6-TR  |
| Y1  | 10 MHz       | RESONATOR-MURATA-CSTCE10M0G55-R0 | Resonator 10MHz 0.5%   | Murata                      | CSTCE10M0G55-R0 |