

| Fitted | Designator  | Comment              | Value     | Description  | Manufacturer         | Manufacturer Part<br>Number | Supplier   | Supplier Part Number             | Quantity |
|--------|---|----------------------|-----------|--|----------------------|-----------------------------|------------|----------------------------------|----------|
| Fitted | BAT1  | INR18650-35E         | 3350mAh   | EMECH SINGLE<br>BATTERYLIPO                                      | Samsung              | INR18650-35E                | Conrad     | 1499572 - 62                     | 1        |
| Fitted | C1  | C0805                | 1u        | CERCAP1u 25V10%<br>X7R0805                                       | YAGEO                | CC0805KKX7R8BB105           | Digi-Key   | 311-1456-1-ND                    | 1        |
| Fitted | C2, C3, C5, C8, C14,<br>C15, C16, C17, C18,<br>C19, C20, C21, C22 | C0402                | 100n      | CERCAP100n50V10%<br>X7R0402                                      | YAGEO                | CC0402KRX7R9BB104           | Digi-Key   | 311-3566-1-ND                    | 13       |
| Fitted | C4  | C1206                | 1n        | CERCAP1n2kV10%<br>X7R1206  | Würth ⊟ektronik      | 885342208024                | Digi-Key   | 732-885342208024CT<br>ND         | 1        |
| Fitted | C6, C7, C9  | C0805                | 2u2       | CERCAP 2u2 25V 10%<br>X7R 0805                                   | YAGEO                | CC0805KKX7R8BB225           | Digi-Key   | 311-1884-1-ND                    | 3        |
| Fitted | C10, C11, C13, C23  | C0805                | 4u7       | CERCAP4u7 25V10%<br>X7R0805                                      | YAGEO                | CC0805KKX7R8BB475           | Digi-Key   | 311-1885-1-ND                    | 4        |
| Fitted | C12   | C0402                | 1n        | CERCAP1n50V10%<br>X7R0402  | YAGEO                | CC0402KRX7R9BB102           | Digi-Key   | 311-1036-1-ND                    | 1        |
| Fitted | D1, D2, D3, D5  | BAS16W-7-F           |           | DIODE200mW75V<br>300mASOT-323                                    | Diodes Incorporated  | BAS16W-7-F                  | Digi-Key   | BAS16W-FDICT-ND                  | 4        |
| Fitted | D4, D6, D7, D8, D9  | APHHS1005LZGCK-V     | Green     | LED GREEN 2mA2.65V<br>0402                                       | Kingbright           | APHHS1005LZGCK-V            | DigiKey    | 754-2126-1-ND                    | 5        |
| Fitted | FB1, FB2  | BLM15BD102SN1D       | 1k@100M   | FERRITE 200mA-1k<br>0402   | Murata Electronics   | BLM15BD102SN1D              | Digi-Key   | 490-1010-1-ND                    | 2        |
| Fitted | Л   | USB4105-GF-A         |           | CONN Female USB-C<br>16x Horizontal SMD                          | GCT                  | USB4105-GF-A                | Digi-Key   | 2073-USB4105-GF-<br>ACT-ND       | 1        |
| Fitted | Ж   | F52Q-1A7H1-11016     |           | CONN FPC TOP 16POS<br>1mm  | Amphenol ICC (FCI)   | F52Q-1A7H1-11016            | Digi-Key   | 609-F52Q-1A7H1-<br>11016CT-ND    | 1        |
| Fitted | LS1   | SMT-0927-S-HT-R      |           | PASSIVE<br>PIEZO_BUZZER<br>8.5x8.5x4.3mm                         | PUI Audio, Inc.      | SMT-0927-S-HT-R             | Digi-Key   | 668-SMT-0927-S-HT-<br>RCT-ND     | 1        |
| Fitted | Q1  | BSS138               |           | MOSFETN 0.2A50V<br>SOT323  | Diodes Incorporated  | BSS138W-7-F                 | Digi-Key   | BSS138W-FDICT-ND                 | 1        |
| Fitted | R1, R3  | R0402                | 5k1       | RES5k1 62.5mW1%<br>0402  | YAGEO                | RC0402FR-075K1L             | Digi-Key   | 311-5.10KLRCT-ND                 | 2        |
| Fitted | R2, R4, R7, R8, R9,<br>R13, R18, R19                              | R0402                | 10k       | RES 10k 62.5mW 1%<br>0402  | YAGEO                | RC0402FR-0710KL             | Digi-Key   | 311-10.0KLRCT-ND                 | 8        |
| Fitted | R5, R12   | R0402                | 1k        | RES1k62.5mW1%<br>0402  | YAGEO                | RC0402FR-071KL              | Digi-Key   | 311-1.00KLRCT-ND                 | 2        |
| Fitted | R6  | NCU15XH103F6SRC      | 10k 3380K | RESNTC 10k 3380K   | Murata Electronics   | NCU15XH103F6SRC             | Digi-Key   | 490-<br>NCU15XH103F6SRCC<br>T-ND | 1        |
| Fitted | R10   | R0402                | 0R        | RES0R0402  | YAGEO                | RC0402FR-070RL              | Digi-Key   | 311-0.0LRCT-ND                   | 1        |
| Fitted | R11, R14, R15, R16,<br>R17  | R0402                | 220R      | RES220R62.5mW1%<br>0402  | YAGEO                | RC0402FR-07220RL            | Digi-Key   | 311-220LRCT-ND                   | 5        |
| Fitted | R20, R21, R24, R25  | R0402                | 22R       | RES22R62.5mW1%<br>0402   | YAGEO                | RC0402FR-0722RL             | Digi-Key   | 311-22.0LRCT-ND                  | 4        |
| Fitted | R22, R23  | R0402                | 8R2       | RES8R2 62.5mW1%<br>0402  | YAGEO                | RC0402FR-078R2L             | Digi-Key   | 13-RC0402FR-<br>078R2LCT-ND      | 2        |
| Fitted | \$1, \$2, \$3   | PTS636               |           | BUTTON SPST 12V<br>50mA6x3.5x4.3mm                               | C&K                  | PTS636 SK43 SMTR<br>LFS     | Digi-Key   | CKN12311-1-ND                    | 3        |
| Fitted | TP2, TP3  | 5019                 |           | TPSMD3.81x2.03mm   | Keystone Electronics | 5019                        | Digi-Key   | 36-5019CT-ND                     | 2        |
| Fitted | U1  | USBLC6-29C6          |           | IC Dual ESD Protection<br>SOT23-6                                | STMicroelectronics   | USBLC6-29C6                 | Digi-Key   | 497-5235-1-ND                    | 1        |
| Fitted | U2  | ECS-2520MV-080-CN-TR |           | OSC 8MHz<br>Enable/Disable 1.6V-<br>3.6V4-SMD 2.5x2mm            | ECSInc.              | ECS-2520MV-080-CN-TR        | Digi-Key   | XC3029CT-ND                      | 1        |
| Fitted | U3  | STM32F401CCU6        |           | MCU ARM-Cortex-M4<br>256kB_FLASH<br>64kB_RAM1.7-3.6V<br>UFQFPN48 | STMicroelectronics   | STM32F401CCU6               | Digi-Key   | 497-17426-ND                     | 1        |
| Fitted | U4  | STNS01PUR            |           | Charger Single Lilon<br>5.4V12-DFN                               | STMicroelectronics   | STNS01PUR                   | Digi-Key   | 497-13880-1-ND                   | 1        |
| Fitted | U5, U8  | TPS22919DCKR         |           | POWER-DISTRIBUTION<br>Single Switch 5.5V<br>SOT363               | Texas Instruments    | TPS22919DCKR                | Digi-Key   | 296-<br>TPS22919DCKRCT-ND        | 2        |
| Fitted | U6, U7, U9  | TLV9002SIRUGR        |           | OPAMP DUAL 1MHz 1.8<br>5.5V X2QFN                                | Texas Instruments    | TLV9002SIRUGR               | Digi-Key   | 296-<br>TLV9002SIRUGRCT-NE       | , 3      |
| Fitted | U10   | HC-12                |           | RFModule UART  | HC Tech              | HC-12                       | AliExpress | HC-12                            | 1        |





