

EEZ DIB MCU BOM (r1B3, 2019-05-23)
Project source code at <https://github.com/eez-open/modular-psu>

| # | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|----|-----|---------------------------|---|--|---------------------|----------------------|-----------------|-----|---------------------|-----------------|-----|-----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 1 | 1 | S8401-46 or DS1092-16-B6P | THT; CR2032 cell battery holder; vertical | B1 | 2115304 | S8401-46 | 2,190 | 1 | 952-1743-1-ND | 1,230 | 1 | 855-S8401-46 | 1,220 | 1 |
| 2 | 2 | 2n2/1kV | 1206 or 1210 | C1, C51 | 1855965 | MC1210B222K102 CT | 0,496 | 5 | 490-12018-1-ND | 0,502 | 10 | 710-885342208019 | 0,121 | 10 |
| 3 | 2 | 4p7 | 0603, C0G | C10, C12 | 2627469 | MC0603N4R7C500 CT | 0,329 | 10 | 311-1740-1-ND | 0,054 | 10 | 710-885012006049 | 0,072 | 10 |
| 4 | 1 | EEEFK1V470P | Ø6.3 x 5.8 mm | C13 | 9695850 | EEEFK1V470P | 0,364 | 1 | PCE3842CT-ND | 0,302 | 10 | 667-EEE-FK1V470P | 0,238 | 10 |
| 5 | 3 | 4u7/6.3V | 1206, Tant. | C15, C22, C49 | 2321209 | T491A475K006AT | 0,421 | 5 | 399-9717-1-ND | 0,259 | 10 | 80-T491A475K006AT | 0,184 | 10 |
| 6 | 39 | 100n | 0603 | C2, C5, C8, C14, C16, C17, C18, C19, C20, C21, C23, C26, C27, C28, C29, C30, C31, C32, C35, C38, C40, C41, C42, C43, C44, C45, C46, C52, C57, C61, C62, C63, C64, C65, C66, C68, C69, C70, C71 | 2522597 | C0603C104K4RAC 7081 | 0,073 | 10 | 490-4774-1-ND | 0,090 | 100 | 80-C0603C104M4R | 0,085 | 100 |
| 7 | 5 | 1u | 0805 | C24, C33, C34, C48, C58 | 2896566 | VJ0805Y105KXXT W1BC | 0,084 | 5 | 587-1283-1-ND | 0,090 | 10 | 603-CC805MKX7R7B B105 | 0,062 | 10 |
| 8 | 4 | 10n | 0805 | C3, C4, C6, C7 | | | | | | | | | | |
| 9 | 3 | 2u2 | 0805 | C36, C37, C50 | 1828829 | GRM21BR71C225 KA12L | 0,198 | 5 | 1276-2954-1-ND | 0,085 | 10 | 80-C0805C225M4R ECLR | 0,078 | 10 |
| 10 | 3 | 4u7 | 1206 | C39, C47, C53 | 1907356 | C3216X7R1E475K 160AC | 0,282 | 5 | 1276-2970-1-ND | 0,199 | 10 | 963-EMK316B7475M L-T | 0,129 | 10 |
| 11 | 2 | 470n | 0805 | C54, C55 | 2896591 | VJ0805Y474KXQT W1BC | 0,094 | 5 | 1276-2966-1-ND | 0,151 | 10 | 603-CC0805JK7R9B B474 | 0,049 | 10 |
| 12 | 1 | 10u | 1206, Tant. | C67 | 1457412 | T491A106K006AT | 0,259 | 5 | 399-3683-1-ND | 0,238 | 10 | 80-T491A106K0067 280 | 0,173 | 10 |
| 13 | 2 | 18p | 0603, C0G | C9, C11 | 2896373 | VJ0603A180JXAC W1BC | 0,016 | 10 | 1276-1089-1-ND | 0,048 | 10 | 80-C0603C180J5G7 867 | 0,023 | 10 |
| 14 | 1 | SMBJ5.0A-TR | DO-214AA | D1 | 2353654 | SMBJ5.0ATR | 0,232 | 5 | 497-3144-1-ND | 0,263 | 10 | 511-SMBJ5.0A | 0,306 | 1 |
| 15 | 1 | RB751V40T1G | SOD-323, low capacitance switching diode | D2 | 1459171 | RB751V40T1G | 0,143 | 5 | RB751V40T1GO SCT-ND | 0,192 | 10 | 863-RB751V40T1G | 0,146 | 10 |
| 16 | 2 | SM005-60 | 1210 fuse; 50mA | F1, F2 | 1822205 | 1210L005WR | 0,419 | 5 | 507-1782-1-ND | 0,110 | 1 | 530-OZCH0005FF2E | 0,094 | 1 |
| 17 | 1 | BLM18AG102SH1D | 0603 ferrite bead; 60R; 100MHz | FB1, FB2 | 1669708 | MMZ1608Y102B | 0,072 | 10 | 490-7809-1-ND | 0,052 | 50 | 81-BLM18AG102SH 1D | 0,063 | 10 |
| 18 | 2 | TPD4E001DRLR | SOT-6 | IC1, IC11 | 1611469 | TPD4E001DRLR | 0,453 | 5 | 296-21887-1-ND | 0,590 | 1 | 595-TPD4E001DRLR | 0,536 | 1 |
| 19 | 1 | TPS61169DCKR | SC-70-5 | IC10 | 2542731 | TPS61169DCKR | 0,661 | 1 | 296-40821-1-ND | 0,790 | 1 | 595-TPS61169DCKR | 0,770 | 1 |

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| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|---------------------------|----------|------------------------|-----------------|-----|------------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 1 | 1 | S8401-46 or DS1092-16-B6P | 161-3709 | S8401-46 | 1,454 | 5 | DS1092-16-B6P | 0,147 | 10 | 1 | | TME | 0,147 € | 1 | 0,147 |
| 2 | 2 | 2n2/1kV | 723-6492 | GRM31BR73A2 22KW01L | 0,246 | 25 | 1206B222K102CT | 0,030 | 50 | | 2 | TME | 0,030 € | 2 | 0,059 |
| 3 | 2 | 4p7 | 298-9315 | C0603C479C5G ACTU | 0,024 | 25 | CL10C4R7CB8NNNC | 0,024 | 100 | | 2 | RS | 0,024 € | 2 | 0,048 |
| 4 | 1 | EEEFK1V470P | 537-0657 | EEEFK1V470P | 0,394 | 5 | EEEFK1V470P | 0,130 | 5 | | 1 | TME | 0,130 € | 1 | 0,130 |
| 5 | 3 | 4u7/6.3V | 538-2335 | T491A475K006 AT | 0,337 | 10 | T491A475K006AT | 0,094 | 10 | | 3 | TME | 0,094 € | 3 | 0,281 |
| 6 | 39 | 100n | 264-4630 | C0603C104K4R ACTU | 0,035 | 25 | CL10B104KA8NNNC | 0,098 | 100 | | 39 | RS | 0,035 € | 39 | 1,365 |
| 7 | 5 | 1u | 451-5770 | C0805C105K4R ACTU | 0,028 | 25 | CL21B105KOFNNNE | 0,010 | 100 | | 5 | TME | 0,010 € | 5 | 0,052 |
| 8 | 4 | 10n | | | | | | | | | 4 | Farnell | 0,000 € | 4 | 0,000 |
| 9 | 3 | 2u2 | 766-1031 | CL21B225KAFN NNF | 0,069 | 100 | CL21B225KOFNNNG | 0,071 | 100 | | 3 | RS | 0,069 € | 3 | 0,207 |
| 10 | 3 | 4u7 | 691-1221 | C1206C475K3R ACTU | 0,232 | 25 | GCM31CR71E475KA5 5L | 0,381 | 10 | | 3 | Mouser | 0,129 € | 3 | 0,387 |
| 11 | 2 | 470n | 174-4499 | C0805X474K5R ECAUTO | 0,091 | 100 | CL21B474KBFNNNE | 0,027 | 100 | | 2 | TME | 0,027 € | 2 | 0,053 |
| 12 | 1 | 10u | 136-2614 | F930J106MA | 0,182 | 25 | T491A106K006AT | 0,069 | 25 | | 1 | TME | 0,069 € | 1 | 0,069 |
| 13 | 2 | 18p | 147-415 | C0603C180J5G ACTU | 0,032 | 50 | CL10C180JB8NNNC | 0,015 | 100 | | 2 | TME | 0,015 € | 2 | 0,030 |
| 14 | 1 | SMBJ5.0A-TR | 714-7210 | SMBJ5.0A-TR | 0,268 | 25 | SMBJ5.0A-TR | 0,114 | 5 | | 1 | TME | 0,114 € | 1 | 0,114 |
| 15 | 1 | RB751V40T1G | 690-0022 | RB751V40T1G | 0,137 | 25 | RB751V40T1G | 0,036 | 25 | | 1 | TME | 0,036 € | 1 | 0,036 |
| 16 | 2 | SM005-60 | 647-8342 | MF-USMF005-2 | 0,278 | 10 | SM005-60 | 0,085 | 10 | | 2 | TME | 0,085 € | 2 | 0,170 |
| 17 | 1 | BLM18AG102SH1D | 839-0803 | BLM18AG102S H1D | 0,043 | 100 | BLM18AG102SH1D | 0,016 | 50 | | 1 | TME | 0,016 € | 1 | 0,016 |
| 18 | 2 | TPD4E001DRLR | 709-9066 | TPD4E001DRL R | 0,552 | 5 | - | | | | 2 | Farnell | 0,453 € | 3 | 1,359 |
| 19 | 1 | TPS61169DCKR | - | - | | | - | | | | 1 | Farnell | 0,661 € | 1 | 0,661 |

| # | Farnell / Element14 | | | | | | | | Digi-Key | | | Mouser | | |
|----|---------------------|------------------|---|---------------------------------------|---------|------------------|-----------------|-----|---------------------|-----------------|-----|----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 20 | 1 | TPA6205A1DGN | MSOP-8 | IC12 | 2782859 | TPA6205A1DGNR | 0,683 | 1 | 296-21262-1-ND | 0,820 | 1 | 595-TPA6205A1DGNR | 0,791 | 1 |
| 21 | 1 | TSC2007IPW | TSSOP-16 | IC14 | 2769429 | TSC2007IPWR | 1,700 | 1 | 296-27124-1-ND | 2,110 | 1 | 595-TSC2007IPWR | 2,040 | 1 |
| 22 | 1 | DP83848CVV/NOPB | LQFP-48 | IC16 | 1685784 | DP83848CVV/NOPB | 4,850 | 1 | DP83848CVV/NOPB-ND | 4,280 | 1 | 926-DP83848CVV/NOPB | 4,260 | 1 |
| 23 | 1 | SN74LVC2G34DBVR | SOT-23 | IC2 | 1470888 | SN74LVC2G34DBVR | 0,377 | 1 | 296-13496-1-ND | 0,470 | 1 | 595-SN74LVC2G34DBVR | 0,451 | 1 |
| 24 | 1 | BTS3408G | SOIC-8 | IC3 | 2480561 | BTS3408G | 1,380 | 1 | BTS3408GXUMA2CT-ND | 1,740 | 1 | 726-BTS3408GXUMA2 | 1,610 | 1 |
| 25 | 1 | STM32F769IIT6 | LQFP-176 | IC4 | 2849930 | STM32F769IIT6 | 15,100 | 1 | 497-16649-ND | 14,800 | 1 | 511-STM32F769IIT6 | 14,510 | 1 |
| 26 | 1 | LD1117ADT33TR | TO-252 (DPAK) | IC5 | 2849768 | LD1117ADT33TR | 0,419 | 1 | 497-3455-1-ND | 0,420 | 1 | 511-LD1117ADT33-TR | 0,408 | 1 |
| 27 | 1 | IS42S16400J | TSOP-II | IC7 | 2901167 | IS42S16400J-6TLI | 2,710 | 1 | IS42S16400J-7TLI | 2,050 | 1 | 870-IS42S16400J-7TL | 1,410 | 1 |
| 28 | 1 | AT24C256C-SSHL-B | SOIC-8 | IC8 | 1972001 | AT24C256C-SSHL-B | 0,685 | 1 | AT24C256C-SSHL-B-ND | 0,540 | 1 | 556-AT24C256C-SSHL-B | 0,541 | 1 |
| 29 | 1 | TPS2051BDBVR | SOT-23-5 | IC9 | 2296067 | TPS2051BDBVR | 1,080 | 1 | 296-21265-1-ND | 1,280 | 1 | 595-TPS2051BDBVR | 1,220 | 1 |
| 30 | 1 | 503398-1892 | SMD; Micro SD, push-push, 8-pin | J1 | 2358234 | 503398-1892 | 1,980 | 1 | WM11190CT-ND | 2,160 | 1 | 538-503398-1892 | 1,960 | 1 |
| 31 | 1 | 67803-8020 | SMD; USB mini AB, OTG, 5-pin | J2 | 1355761 | 67803-8020 | 1,470 | 1 | WM17148CT-ND | 1,790 | 1 | 538-67803-8020 | 1,790 | 1 |
| 32 | 1 | M22-2510246 | THT; Connector Header; 2 position; 2.00mm | JP2 | 2289776 | M22-2510205 | 0,096 | 100 | 952-2280-ND | 0,150 | 1 | 855-M22-2510246 | 0,148 | 1 |
| 33 | 1 | DLG-0403-4R7 | 0403 power inductor | L1 | 1827980 | SDR0403-4R7ML | 0,406 | 5 | SDR0403-4R7MLCT-ND | 0,424 | 10 | 652-SDR0403-4R7ML | 0,272 | 10 |
| 34 | 1 | 505110-4091 | SMD; FFC/FPC 40-pin lower side entry | LCD1 | 2500025 | 505110-4091 | - | | WM11292CT-ND | 1,250 | 1 | 538-505110-4091 | 1,150 | 1 |
| 35 | 9 | 4K7 | 0805 | R1, R2, R3, R6, R7, R9, R14, R15, R16 | 2861530 | CRGCQ0805F4K7 | 0,009 | 10 | 311-4.70KCRCT-ND | 0,090 | 1 | 603-RC0805FR-074K7L | 0,026 | 10 |
| 36 | 1 | 47R | 0805 | R17 | 2861899 | CRGCQ0805J47R | 0,007 | 10 | P47.0CCT-ND | 0,069 | 10 | 279-CRGCQ0805F47R | 0,028 | 10 |
| 37 | 4 | 47K | 0805 | R21, R22, R28, R36 | 2447664 | MCWR08X4702FTL | 0,010 | 10 | RHM47KKCT-ND | 0,074 | 10 | 603-RC0805FR-0747KL | 0,026 | 10 |
| 38 | 2 | 10R | 0805 | R24, R26 | 9236643 | RC1206FR-0710RL | 0,050 | 10 | 311-10.0CRCT-ND | 0,071 | 10 | 603-RC1206FR-0710RL | 0,034 | 10 |
| 39 | 2 | 22R | 0805 | R29, R30 | 1099795 | WCR0805-220RFI | 0,019 | 10 | RMCF0805FT22R0CT-ND | 0,020 | 10 | RC0805FR-07220RL | 0,026 | 10 |
| 40 | 1 | 1K5 | 0805 | R39, R40, R43, R48 | 2861908 | CRGCQ0805J1K5 | 0,007 | 10 | 541-4161-1-ND | 0,041 | 10 | 279-CRGCQ0805F1K5 | 0,085 | 10 |

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|----|---------------|------------------|----------|-------------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 20 | 1 | TPA6205A1DGN | 812-4268 | TPA6205A1DGN | 0,815 | 10 | TPA6205A1DGN | 0,791 | 1 | | 1 | Farnell | 0,683 € | 1 | 0,683 |
| 21 | 1 | TSC2007IPW | 661-3545 | TSC2007IPW | 2,340 | 1 | - | | 1 | | 1 | Farnell | 1,700 € | 1 | 1,700 |
| 22 | 1 | DP83848CVV/NOPB | 651-5738 | DP83848CVV/NOPB | 4,310 | 1 | DP83848CVV/NOPB | 3,000 | 1 | | 1 | TME | 3,000 € | 1 | 3,000 |
| 23 | 1 | SN74LVC2G34DBVR | 662-8963 | SN74LVC2G34DBVR | 0,458 | 5 | SN74LVC2G34DBVR | 0,302 | 3 | | 1 | TME | 0,302 € | 1 | 0,302 |
| 24 | 1 | BTS3408G | 825-9099 | BTS3408GXUMA2 | 1,271 | 10 | BTS3408 | 0,860 | 2 | | 1 | TME | 0,860 € | 1 | 0,860 |
| 25 | 1 | STM32F769IIT6 | - | | | | STM32F769IIT6 | 13,010 | 400 | | 1 | TME | 13,010 € | 1 | 13,010 |
| 26 | 1 | LD1117ADT33TR | 686-9123 | LD1117ADT33TR | 0,499 | 10 | LD1117ADT33 | 0,521 | 3 | | 1 | Mouser | 0,408 € | 1 | 0,408 |
| 27 | 1 | IS42S16400J | 811-5125 | IS42S16400J-7TLI | 2,565 | 2 | IS42S16400J-7TL | 2,050 | 1 | | 1 | Mouser | 1,410 € | 1 | 1,410 |
| 28 | 1 | AT24C256C-SSHL-B | 738-0041 | AT24C256C-SSHL-B | 0,488 | 5 | AT24C256C-SSHL-B | 0,470 | 3 | | 1 | TME | 0,470 € | 1 | 0,470 |
| 29 | 1 | TPS2051BDBVR | 662-2384 | TPS2051BDBVT | 1,284 | 5 | - | | | | 1 | Farnell | 1,080 € | 1 | 1,080 |
| 30 | 1 | 503398-1892 | 880-1277 | 503398-1892 | 2,600 | 1 | MX-503398-1892 | 0,860 | 2 | 1 | | TME | 0,860 € | 1 | 0,860 |
| 31 | 1 | 67803-8020 | 720-6618 | 67803-8020 | 1,540 | 5 | MX-67803-8020 | 0,590 | 1 | 1 | | TME | 0,590 € | 1 | 0,590 |
| 32 | 1 | M22-2510246 | 681-3287 | M22-2010205 | 0,215 | 10 | ZL303-02P | 0,012 | 50 | 1 | | TME | 0,012 € | 1 | 0,012 |
| 33 | 1 | DLG-0403-4R7 | - | | | | DLG-0403-4R7 | 0,129 | 10 | | 1 | TME | 0,129 € | 1 | 0,129 |
| 34 | 1 | 505110-4091 | - | | | | - | | | | 1 | Mouser | 1,150 € | 1 | 1,150 |
| 35 | 9 | 4K7 | 223-0528 | CRG0805F4K7 | 0,010 | 50 | SMD0805-4K7-1% | 0,022 | 100 | | 9 | Farnell | 0,009 € | 9 | 0,077 |
| 36 | 1 | 47R | 223-0253 | CRG0805F47R | 0,016 | 50 | SMD0805-47R-1% | 0,022 | 100 | | 1 | Farnell | 0,007 € | 1 | 0,007 |
| 37 | 4 | 47K | 679-1434 | CRCW080547K0FKEA | 0,046 | 50 | SMD0805-47K-1% | 0,022 | 100 | | 4 | Farnell | 0,010 € | 4 | 0,038 |
| 38 | 2 | 10R | 740-9085 | CR1206-FX-10R0ELF | 0,036 | 50 | CRCW120610R0FKTABC | 0,031 | 100 | | 2 | TME | 0,031 € | 2 | 0,062 |
| 39 | 2 | 22R | 223-0332 | CRG0805F220R | 0,024 | 50 | SMD0805-220R-1% | 0,022 | 100 | | 2 | Farnell | 0,019 € | 2 | 0,038 |
| 40 | 1 | 1K5 | 223-0449 | CRG0805F1K5 | 0,036 | 50 | SMD0805-1K5-1% | 0,022 | 100 | | 1 | Farnell | 0,007 € | 1 | 0,007 |

| # | Farnell / Element14 | | | | | | | | Digi-Key | | | Mouser | | |
|--------------------------|---------------------|-------------------|--|---|---------------------|-------------------|-----------------|----------------|----------------------|-----------------|-----------------------|-----------------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 41 | 2 | 1K | 0805 | R4, R8 | 1099800 | WCR0805-1K0FI | 0,019 | 10 | RC0805FR-071KL | 0,039 | 10 | 603-RC0805FR-071KL | 0,015 | 10 |
| 42 | 4 | 49R9 | 0805 | R40, R41, R44, R49 | 2447669 | MCWR08X49R9FT-L | 0,009 | 10 | 311-49.9CRCT-ND | 0,039 | 10 | 603-RC0805FR-0749R9L | 0,026 | 10 |
| 43 | 9 | 2K2 | 0805 | R42, R43, R45, R47, R48, R50, R53, R54, R56 | 9237534 | RC0805FR-072K2L | 0,037 | 10 | 311-2.20KCRCT-ND | 0,039 | 10 | 603-RC0805FR-072K2L | 0,026 | 10 |
| 44 | 12 | 10K | 0805 | R5, R10, R11, R12, R13, R31, R32, R33, R34, R35, R37, R38 | 9237755 | RC0805FR-0710KL | 0,022 | 10 | 311-10.0KCRCT-ND | 0,039 | 10 | 603-RC0805FR-0710KL | 0,014 | 10 |
| 45 | 2 | 220R | 0805 | R51, R52 | 1099795 | WCR0805-220RFI | 0,019 | 10 | RMCF0805FT22-ORCT-ND | 0,020 | 10 | 603-RC0805FR-1322ORL | 0,020 | 10 |
| 46 | 1 | 4K87 | 0805 | R55 | 1469925 | CRCW08054K87F-KEA | 0,016 | 10 | 311-4.87KCRCT-ND | 0,039 | 10 | 652-CR0805FX-4871ELF | 0,037 | 10 |
| 47 | 4 | DR1206-33R-4/8 | 1206; resistor array | RN1, RN2, RN3, RN4 | 1770128 | CAY16-330J4LF | 0,069 | 10 | CAY16-330J4LFACT-ND | 0,090 | 1 | 652-CAY16-330J4LF | 0,085 | 1 |
| 48 | 1 | LD-BZEL-M1313 | SMD; loudspeaker 0.7W; 13x13x4mm; 88dB | SP1 | - | | | | - | | | - | | |
| 49 | 1 | PEC16-2215F-S0024 | THT; encoder with switch | SW1 | - | | | | PEC16-2215F-S0024-ND | 1,340 | 1 | 652-PEC16-2215FS0024 | 1,220 | 1 |
| 50 | 1 | TL1100CF160Q | Tactile switch, without cap | SW2 | 2830627 | TL1100CF160Q | 0,474 | 1 | EG1822-ND | 0,380 | 1 | 612-TL1100C | 0,442 | 1 |
| 51 | 1 | ZL263-40DG | THT; 40-pin socket; female; angled 90° | X1 | 1805895 | SSW-120-02-T-D-RA | 4,920 | 1 | SAM11958-ND | 3,060 | 1 | 200-SSW12002TDRA | 3,050 | 1 |
| 52 | 1 | ZL231-16KG | THT; 16-pin IDC socket; male; angled 90° | X2 | 1642024 | 61201621721 | 0,676 | 1 | S9179-ND | 0,620 | 1 | 710-61201621721 | 0,680 | 1 |
| 53 | 1 | 1844249 | THT; Pluggable Terminal Blocks; 3.5mm; 5-pin | X3 | 2493680 | CTB932HD/5 | 0,373 | 10 | 732-2772-ND | 1,010 | 1 | 710-691322110005 | 1,000 | 1 |
| 54 | 1 | LMJTAB881243M-L | THT; RJ45 socket with magnetics and LEDs; shielded | X5 | - | | | | - | | | Non-Stocked, Call for Quote | | |
| 55 | 1 | 25 MHz | SMD; HC-49/US; XTAL | Y1 | 2832034 | LFXTAL033342 | 0,227 | 1 | 1923-1536-1-ND | 0,360 | 1 | 815-ABLS-25.0M-F-T | 0,298 | 1 |
| 56 | 1 | XTAL016178-85SMX | SMD; 8.7mm x 3.7mm; XTAL | Y2 | 1652572 | XTAL016178-85SMX | 0,440 | 1 | 1923-1021-1-ND | 0,520 | 1 | 449-LFXTAL016178R EEL | 0,393 | 1 |
| 57 | 2 | SMAJ18A | DO-214AC | ZD1, ZD2 | 2677644 | SMAJ18A | 0,097 | 5 | SMAJ18A-FDICT-ND | 0,350 | 1 | 621-SMAJ18A-13-F | 0,315 | 1 |
| Not installed / optional | | | | | | | | | | | | | | |
| 2 | 2n2/1kV | 1206 or 1210 | C1, C51 | 1855965 | MC1210B222K102 CT | 0,496 | 5 | 490-12018-1-ND | 0,502 | 10 | 710-885342208019 | 0,121 | 10 | |
| 1 | N.C. | 0603 | C25 | | | | | | | | | | | |
| 2 | 100n | 0603 | C56, C60 | 2522597 | C0603C104K4RAC 7081 | 0,073 | 10 | 490-4774-1-ND | 0,090 | 100 | 80-C0603C104M4R | 0,085 | 100 | |
| 1 | 470n | 0805 | C59 | 2896591 | VJ0805Y474KXQT W1BC | 0,094 | 5 | 1276-2966-1-ND | 0,151 | 10 | 603-CC0805JK7R9B B474 | 0,049 | 10 | |
| 3 | TPD4E001DRLR | SOT-6 | IC6, IC13, IC15 | 1611469 | TPD4E001DRLR | 0,453 | 5 | 296-21887-1-ND | 0,590 | 1 | 595-TPD4E001DRLR | 0,536 | 1 | |

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| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|-------------------|----------|-------------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 41 | 2 | 1K | 223-0427 | CRG0805F1K0 | 0,017 | 50 | SMD0805-1K-1% | 0,022 | 100 | | 2 | Mouser | 0,015 € | 2 | 0,030 |
| 42 | 4 | 49R9 | 679-1462 | CRCW080549R9FKEA | 0,036 | 50 | RC0805FR-0749R9 | 0,035 | 100 | | 4 | Farnell | 0,009 € | 2 | 0,019 |
| 43 | 9 | 2K2 | 679-1207 | CRCW08052K20FKEA | 0,039 | 50 | SMD0805-2K2-1% | 0,022 | 100 | | 9 | TME | 0,022 € | 2 | 0,045 |
| 44 | 12 | 10K | 125-1189 | CRG0805F10K | 0,002 | 100 | RC0805FR-0710K | 0,022 | 100 | | 12 | RS | 0,002 € | 2 | 0,004 |
| 45 | 2 | 220R | 223-0332 | CRG0805F220R | 0,018 | 50 | SMD0805-220R-1% | 0,022 | 100 | | 2 | RS | 0,018 € | 2 | 0,036 |
| 46 | 1 | 4K87 | - | | | | RC0805FR-074K87 | 0,035 | 100 | | 1 | Farnell | 0,016 € | 1 | 0,016 |
| 47 | 4 | DR1206-33R-4/8 | 522-5670 | CAY16-330J4LF | 0,004 | 50 | DR1206-33R-4/8 | 0,009 | 100 | | 4 | RS | 0,004 € | 4 | 0,016 |
| 48 | 1 | LD-BZEL-M1313 | - | | | | LD-BZEL-M131 | 1,580 | 1 | | 1 | TME | 1,580 € | 1 | 1,580 |
| 49 | 1 | PEC16-2215F-S0024 | - | | | | - | | | | 1 | Mouser | 1,220 € | 1 | 1,220 |
| 50 | 1 | TL1100CF160Q | - | | | | - | | | | 1 | Digikey | 0,380 € | 1 | 0,380 |
| 51 | 1 | ZL263-40DG | 154-8342 | SSW-120-02-F-D-RA | 4,320 | 1 | ZL263-40D | 0,680 | 1 | | 1 | TME | 0,680 € | 1 | 0,680 |
| 52 | 1 | ZL231-16KG | 771-8367 | 61201621721 | 0,676 | 5 | ZL231-16K | 0,135 | 5 | | 1 | TME | 0,135 € | 1 | 0,135 |
| 53 | 1 | 1844249 | 824-6642 | 691322110005 | 0,960 | 1 | - | | | | 1 | Farnell | 0,373 € | 1 | 0,373 |
| 54 | 1 | LMJTAB881243M-L | - | | | | LMJTAB881243M-L | 1,890 | 1 | | 1 | TME | 1,890 € | 1 | 1,890 |
| 55 | 1 | 25 MHz | 478-9628 | LFXTAL010595 | 0,764 | 1 | 25.00M-SMDHC49R | 0,443 | 2 | | 1 | Farnell | 0,227 € | 1 | 0,227 |
| 56 | 1 | XTAL016178-85SMX | 148-4350 | LFXTAL016178 | 0,252 | 20 | 32.768KHZ-MC306 | 0,195 | 8 | | 1 | TME | 0,195 € | 1 | 0,195 |
| 57 | 2 | SMAJ18A | 710-3443 | SMAJ18A-E3/61 | 0,246 | 25 | SMAJ18A-E3/61 | 0,100 | 5 | | 2 | Farnell | 0,097 € | 2 | 0,193 |
| | | | | | | | | | | | 10 | 145 | | | |
| | | | | | | | | | | | | | | | 38,11 € |

| Not installed / optional | | | | | | | | | | | | | | |
|--------------------------|--------------|----------|------------------------|-------|-----|-----------------|-------|-----|---|---------|---------|---|-------|--|
| 2 | 2n2/1kV | 723-6492 | GRM31BR73A2 22KW01L | 0,246 | 25 | 1206B222K102CT | 0,030 | 50 | 2 | TME | 0,030 € | 2 | 0,059 | |
| 1 | N.C. | | | | | | | | 1 | Farnell | 0,000 € | 1 | 0,000 | |
| 2 | 100n | 264-4630 | C0603C104K4R ACTU | 0,035 | 25 | CL10B104KA8NNNC | 0,098 | 100 | 2 | RS | 0,035 € | 2 | 0,070 | |
| 1 | 470n | 174-4499 | C0805X474K5R ECAUTO | 0,091 | 100 | CL21B474KBFNNE | 0,027 | 100 | 1 | TME | 0,027 € | 1 | 0,027 | |
| 3 | TPD4E001DRLR | 709-9066 | TPD4E001DRL R | 0,552 | 5 | - | | | 3 | Farnell | 0,453 € | 3 | 1,359 | |

| # | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|---|----------------|---|----------|----------------------|---------------------|-------------|-----------------|-----|---------------------|-----------------|-----|----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 1 | MMBT5551 | SOT-23 | Q1 | 1459109 | MMBT5551LT1G | 0,154 | 5 | | MMBT5551LT1G | 0,180 | 1 | 863-MMBT5551LT1G | 0,170 | 1 |
| 1 | 10K | 0805 | R18 | 9237755 | RC0805FR-0710KL | 0,022 | 10 | | 311-10.0KCRCT-ND | 0,039 | 10 | 603-RC0805FR-0710KL | 0,014 | 10 |
| 2 | 22R | 0805 | R19, R20 | 1099795 | WCR0805-220RFI | 0,019 | 10 | | RMCF0805FT22R0CT-ND | 0,020 | 10 | RC0805FR-07220RL | 0,026 | 10 |
| 2 | N.C. | 0805 | R23, R27 | | | | | | | | | | | |
| 1 | 330R | 0805 | R25 | | | | | | | | | | | |
| 1 | 47K | 0805 | R27 | 2447664 | MCWR08X4702FTL | 0,010 | 10 | | RHM47KKCT-ND | 0,074 | 10 | 603-RC0805FR-0747KL | 0,026 | 10 |
| 1 | 220R | 0805 | R46 | 1099795 | WCR0805-220RFI | 0,019 | 10 | | RMCF0805FT22ORCT-ND | 0,020 | 10 | 603-RC0805FR-13220RL | 0,020 | 10 |
| 1 | LTST-C170YKT | 0805 LED; Yellow | SPEED | 2062217 | SML-LX0805YC-TR | 0,180 | 5 | | 160-1175-1-ND | 0,229 | 10 | 859-LTST-C170YKT | 0,153 | 10 |
| 1 | LTST-C170GKT | 0805 LED; Green | VBUS | 2322081 | 150080VS75000 | 0,171 | 5 | | 160-1179-1-ND | 0,201 | 10 | 859-LTST-C170GKT | 0,136 | 10 |
| 1 | 22-23-2061 | THT; 6-pin, 0.1" socket; wire-board; male | X4 | 1462922 | 22-23-2061 | 0,229 | 100 | | WM4204-ND | 0,341 | 10 | 538-22-23-2061 | 0,275 | 10 |
| 1 | BZX384-B30.115 | SOD-323 | ZD3 | 2575164 | BZX384-B30 | 0,157 | 5 | | 1727-3649-1-ND | 0,223 | 10 | 771-BZX384-B30115 | 0,157 | 10 |

Related parts and accessories

| | | | | | | | | | | | | | | |
|---|---------------------------|---|---------|-------------------|-------|---|--|--|--------------|-------|---|-------------|-------|---|
| 1 | 4JRED | SW2 button cap; red | - | | | | | | - | | | 612-4J-RD | 0,145 | 1 |
| 1 | A3131068 | SW1 knob without pointer; Ø31x16mm; grey | - | | | | | | - | | | - | | |
| 1 | A3231007 | SW1 knob cap; blue | - | | | | | | - | | | - | | |
| 1 | RFE43BH-AIW-DNS | TFT LCD 4.3"; 480x272; resistive | - | | | | | | - | | | - | | |
| 1 | 15EDGKN-3.5-05P-14-1000AH | Pluggable terminal block; 3.5mm; push-in, 5-pin | 1792972 | FMC 1,5/ 5-ST-3,5 | 3,360 | 1 | | | 277-6248-ND | 5,060 | 1 | 651-1952296 | 5,060 | 1 |
| 1 | CR2025 | Battery; lithium; 3V; Ø20x2.5mm | 1823475 | CR 2025 MFR (1BL) | 1,710 | 1 | | | 1908-1384-ND | 0,230 | 1 | - | | |

Custom made components

| | | | | | | | | | | | | | | |
|---|-------------------------|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| 1 | PCB 4-layer 139 x 70 mm | ALLPCB.com (Qty of 5) | - | | | | | | | | | | | |
|---|-------------------------|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|

All prices are net prices (without VAT)

Please note that BOM does not contain ordering number for parts on reels or that which includes re-reeling fee (e.g. Farnell). Take also into account that total cost is higher because min. quantity (MOQ) for many parts is larger then what is needed for single unit.

All resistors are 1% 0805 and all capacitors are X7R 0805 if not otherwise specified.

EEZ DIB MCU BOM (r1B3, 2019-05-23)

Project source code at <https://github.com/eez-open/modular-psu>

| # | RS Components | | | | | | TME | | | | | Price calculation for 1 set | | | |
|---|----------------|-----------|----------------------|-------------|-----------------|-----------------|--------------------|-----------------|-----|---------|---------|-----------------------------|------------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 1 | MMBT5551 | 545-0400 | MMBT5551LT1 G | 0,146 | 10 | MMBT5551 | 0,024 | 25 | 1 | TME | 0,024 € | 1 | 0,024 | | |
| 1 | 10K | 125-1189 | CRG0805F10K | 0,002 | 100 | RC0805FR-0710K | 0,022 | 100 | 1 | RS | 0,002 € | 2 | 0,004 | | |
| 2 | 22R | 223-0332 | CRG0805F220R | 0,024 | 50 | SMD0805-220R-1% | 0,022 | 100 | 2 | Farnell | 0,019 € | 2 | 0,038 | | |
| 2 | N.C. | | | | | | | | 2 | Farnell | 0,000 € | 3 | 0,000 | | |
| 1 | 330R | | | | | | | | 1 | Farnell | 0,000 € | 3 | 0,000 | | |
| 1 | 47K | 679-1434 | CRCW080547K 0FKEA | 0,046 | 50 | SMD0805-47K-1% | 0,022 | 100 | 1 | Farnell | 0,010 € | 1 | 0,010 | | |
| 1 | 220R | 223-0332 | CRG0805F220R | 0,018 | 50 | SMD0805-220R-1% | 0,022 | 100 | 1 | RS | 0,018 € | 2 | 0,036 | | |
| 1 | LTST-C170YKT | 692-0925 | LTST-C170YKT | 0,206 | 50 | LTST-C170YKT | 0,055 | 10 | 1 | TME | 0,055 € | 1 | 0,055 | | |
| 1 | LTST-C170GKT | 692-0900 | LTST-C170GKT | 0,211 | 50 | LTST-C170GKT | 0,055 | 10 | 1 | TME | 0,055 € | 1 | 0,055 | | |
| 1 | 22-23-2061 | 679-5593 | 22-23-2061 | 0,221 | 10 | MX-22-23-2061 | 0,124 | 5 | 1 | TME | 0,124 € | 1 | 0,124 | | |
| 1 | BZX384-B30.115 | 751-3720 | BZT52C30S-7-F | 0,020 | 100 | BZX384-B30.115 | 0,029 | 20 | 1 | RS | 0,020 € | 1 | 0,020 | | |

Related parts and acces:

| | | | | | | | | | | | | | | |
|-------------------------------|---------------------------|----------|------------|-------|---|---------------------------|-----------------|--------|---|---------|---------|----------|-------|--------|
| Related parts and accessories | | | | | | | | | | | | | | |
| 1 | 4JRED | - | | | | | - | | | | Mouser | 0,145 € | 1 | 0,145 |
| 1 | A3131068 | - | | | | | A3131068 | 2,090 | 1 | | TME | 2,090 € | 1 | 2,090 |
| 1 | A3231007 | - | | | | | A3231007 | 0,715 | 1 | | TME | 0,715 € | 1 | 0,715 |
| 1 | RFE43BH-AIW-DNS | - | | | | | RFE43BH-AIW-DNS | 21,140 | 1 | | TME | 21,140 € | 1 | 21,140 |
| 1 | 15EDGKN-3.5-05P-14-1000AH | 176-1456 | 1952296 | 5,056 | 1 | 15EDGKN-3.5-05P-14-1000AH | 1,271 | 1 | | TME | 1,271 € | 1 | 1,271 | |
| 1 | CR2025 | 457-4741 | CR-2025/BN | 1,740 | 1 | BAT-CR2025/RE-B | 0,580 | 1 | | Digikey | 0,230 € | 1 | 0,230 | |

25,59 €

Custom made compoener

| | | | | | | | | | | |
|---|-------------------------|--|--|--|--|--|--------|----------|---|--------|
| 1 | PCB 4-layer 139 x 70 mm | | | | | | ALLPCB | 12,800 € | 1 | 12,800 |
|---|-------------------------|--|--|--|--|--|--------|----------|---|--------|

12,80 €

Total 76,51 €