

| #  | Qty | Part name      | Package                | Reference designator   | Board name     | Qty | Farnell / Element14 |                      |                 |     | Digi-Key         |                 |                     | Mouser          |                 |     |
|----|-----|----------------|------------------------|--|----------------|-----|---------------------|----------------------|-----------------|-----|------------------|-----------------|---------------------|-----------------|-----------------|-----|
|    |     |                |                        |  |                |     | Code                | Part Number          | Unit price<br>€ | MOQ | Part Number      | Unit price<br>€ | MOQ                 | Part Number     | Unit price<br>€ | MOQ |
| 1  | 1   | 2x3-pin socket | THT; 2x3-pin socket    | MCU-ICSP   | Arduino Shield | 1   | 7991983             | M20-7830346          | 1,210           | 10  | M20-7830346      | 1,000           | M20-7830346         | 0,940           |                 |     |
| 2  | 20  | 100n 16V X7R   | 0603                   | C11, C26, C30, C37, C42, C54, C55, C56, C60, C61, C62, C65, C69, C70, C73, C75, C79, C82, C83, C159  | Power board    | 40  |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 1   | 100n 16V X7R   | 0603                   | C91  | AUX PS         | 1   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 26  | 100n 16V X7R   | 0603                   | C113, C114, C115, C116, C117, C118, C121, C122, C123, C124, C126, C128, C129, C136, C137, C138, C139, C140, C141, C142, C143, C147, C149, C150, C151, C156 | Arduino Shield | 26  |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    |     |                |                        |  |                | 67  | 2496832             | 0603B104K160CT       | 0,012           | 10  | 0603YC104KAT2 A  | 0,010           | 06033C104K4T4 A     | 0,025           |                 |     |
| 3  | 1   | 220u 16V       | SMD ELCO; Ø6.3 x 7.7mm | C97  | AUX PS         | 1   | 1870605             | MCESL16V227M6. 3X7.7 | 0,213           | 10  | 399-6679-1-ND    | 0,410           | 1                   | 80-EDK227M016A9 | 0,407           | 1   |
| 4  | 4   | 10n 50V X7R    | 0805                   | C133, C146, C154, C155   | Arduino Shield | 4   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 6   | 10n 50V X7R    | 0805                   | C34, C45, C53, C58, C80, C84   | Power board    | 12  |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    |     |                |                        |  |                | 16  | 1759246             | MC0805B103K500 CT    | 0,009           | 10  | CL21B103KBCN NNC | 0,027           | GRM216R71H10 3KA01D | 0,014           |                 |     |
| 5  | 2   | 10u 50V X7R    | 1210                   | C107, C125   | Arduino Shield | 2   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 3   | 10u 50V X7R    | 1210                   | C12, C20, C66  | Power board    | 6   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    |     |                |                        |  |                | 8   | 2362133             | GRM32ER71H106 KA12L  | 0,748           | 1   | CL32B106KBJN NWE | 0,335           | GRM32ER71H10 6KA12L | 0,376           |                 |     |
| 6  | 1   | 10u 35V        | SMD ELCO; Ø5 x 5.8mm   | C120   | Arduino Shield | 1   | 1850112             | EEEFK1V100R          | 0,436           | 1   | EEEFK1V100R      | 0,430           | EEEFK1V100R         | 0,434           |                 |     |
| 7  | 1   | 10u 10V        | 1206, Tantalum         | C144   | Arduino Shield | 1   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 1   | 10u 10V        | 1206, Tantalum         | C67  | Power board    | 2   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    |     |                |                        |  |                | 3   | 1457413             | T491A106K010AT       | 0,260           | 5   | T491A106K010A T  | 0,340           | T491A106K010A T     | 0,344           |                 |     |
| 8  | 2   | 120p 50V NP0   | 0805 / 0603            | C21, C50   | Power board    | 4   | 1414667             | C0805C121J5GAC TU    | 0,044           | 10  | CL21C121JBAN NNC | 0,058           | C0805C121J5GA CTU   | 0,031           |                 |     |
| 9  | 2   | 18p 50V NP0    | 0805 / 0603            | C131, C135   | Arduino Shield | 2   | 2320820             | MC0805N180J101 CT    | 0,026           | 10  | CL21C180JBAN NNC | 0,090           | C0805C180J5GA CTU   | 0,100           |                 |     |
| 10 | 3   | 1n 50V NP0     | 0805 / 0603            | C41, C63, C64  | Power board    | 6   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 1   | 1n 50V NP0     | 0805 / 0603            | C94  | AUX PS         | 1   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    |     |                |                        |  |                | 7   | 1759227             | MC0805N102J500 CT    | 0,029           | 10  | CL21C102JBCN NNC | 0,065           | C0805C102J5GA CTU   | 0,038           |                 |     |
| 11 | 4   | 1u 100V X7R    | 1206, 100V             | C10, C28, C31, C44   | Power board    | 8   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 2   | 1u 100V X7R    | 1206, 100V             | C104A, C109A   | Arduino Shield | 2   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    |     |                |                        |  |                | 10  | 2320876             | MC1206B105K101 CT    | 0,200           | 5   | CL31B105KCHN NNE | 0,253           | GRM31CR72A10 5KA01L | 0,227           |                 |     |
| 12 | 6   | 1u 50V X7R     | 0805, 50V              | C13, C57, C59, C68, C74, C76   | Power board    | 12  | 2118131             | C0805C105K5RAC TU    | 0,215           | 5   | CL21B105KBFN NNE | 0,129           | 08055C105K4T2 A     | 0,135           |                 |     |
| 13 | 1   | 22n 50V X7R    | 0805                   | C130   | Arduino Shield | 1   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |
|    | 1   | 22n 50V X7R    | 0805                   | C29  | Power board    | 2   |                     |                      |                 |     |                  |                 |                     |                 |                 |     |

| RS Components |     |                |          |                         |                 |     | TME                    |                 |     |     |     | Price calculation for 1 set |                      |              |             |
|---------------|-----|----------------|----------|-------------------------|-----------------|-----|------------------------|-----------------|-----|-----|-----|-----------------------------|----------------------|--------------|-------------|
| #             | Qty | Part name      | Code     | Part Number             | Unit price<br>€ | MOQ | Code / Part Number     | Unit price<br>€ | MOQ | THT | SMD | Best<br>Supplier            | Best Line<br>Price € | Order<br>Qty | Line Cost € |
| 1             | 1   | 2x3-pin socket | 681-6832 | M20-7830346             | 0,899           | 5   | ZL262-6DG              | 0,070           | 10  | 1   |     | TME                         | 0,070 €              | 1            | 0,070       |
| 2             | 20  | 100n 16V X7R   |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 1   | 100n 16V X7R   |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 26  | 100n 16V X7R   |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               |     |                | 391-246  | 0603YC104JAT2<br>A      | 0,004           | 50  | CL10B104KO8NNNC        | 0,004           | 100 | 67  |     | RS                          | 0,004 €              | 100          | 0,400       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 3             | 1   | 220u 16V       | 839-1770 | 865080345012            | 0,280           | 10  | SC1C227M6L07KVR        | 0,061           | 10  | 1   |     | TME                         | 0,061 €              | 1            | 0,061       |
| 4             | 4   | 10n 50V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 6   | 10n 50V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               |     |                | 461-4013 | CC0805KRX7R9<br>BB103   | 0,007           | 50  | CL21B103JBANNNC        | 0,006           | 100 | 16  |     | TME                         | 0,006 €              | 20           | 0,120       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 5             | 2   | 10u 50V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 3   | 10u 50V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               |     |                | 766-1214 | CL32B106KBJN<br>NNE     | 0,601           | 10  | CL32B106KBJNNNE        | 0,201           | 10  | 8   |     | TME                         | 0,201 €              | 10           | 2,010       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 6             | 1   | 10u 35V        | 708-3443 | EEEFK1V100R             | 0,274           | 25  | EEEFK1V100R            | 0,200           | 5   | 1   |     | TME                         | 0,200 €              | 1            | 0,200       |
| 7             | 1   | 10u 10V        |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 1   | 10u 10V        |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               |     |                | 538-2278 | T491A106K010A<br>T      | 0,196           | 10  | T491A106K010AT         | 0,085           | 10  | 3   |     | TME                         | 0,085 €              | 3            | 0,254       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 8             | 2   | 120p 50V NP0   | 723-6209 | GRM2165C1H1<br>21JA01D  | 0,035           | 100 | CL21C121JBANNNP        | 0,007           | 100 | 4   |     | TME                         | 0,007 €              | 10           | 0,069       |
| 9             | 2   | 18p 50V NP0    | 648-0935 | C0805C180J5G<br>ACTU    | 0,157           | 10  | CL21C180JBANNNC        | 0,071           | 100 | 2   |     | Farnell                     | 0,026 €              | 2            | 0,053       |
| 10            | 3   | 1n 50V NP0     |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 1   | 1n 50V NP0     |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               |     |                | 378-710  | 0805CG102J9B<br>B       | 0,021           | 25  | CL21C102JBCNNNC        | 0,010           | 100 | 7   |     | TME                         | 0,010 €              | 10           | 0,097       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 11            | 4   | 1u 100V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 2   | 1u 100V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               |     |                | 740-7590 | C3216X7R2A10<br>5K160AA | 0,174           | 10  | GRM31CR72A105KA0<br>1L | 0,128           | 10  | 10  |     | TME                         | 0,128 €              | 10           | 1,279       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 12            | 6   | 1u 50V X7R     | 766-1062 | CL21B105KBFN<br>NNF     | 0,041           | 100 | CL21B105KBFNNG         | 0,014           | 100 | 12  |     | TME                         | 0,014 €              | 15           | 0,214       |
|               |     |                |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
| 13            | 1   | 22n 50V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |
|               | 1   | 22n 50V X7R    |          |                         |                 |     |                        |                 |     |     |     |                             |                      |              |             |

**EEZ PSU H24005 BOM (r5B11, 2016-12-14)**  
Project source code at <https://github.com/eez-open>

| #  | Qty | Part name               | Package                | Reference designator    | Board name     | Qty | Farnell / Element14 |                       |                 |     | Digi-Key             |                 |     | Mouser               |                 |     |
|----|-----|-------------------------|------------------------|-------------------------|----------------|-----|---------------------|-----------------------|-----------------|-----|----------------------|-----------------|-----|----------------------|-----------------|-----|
|    |     |                         |                        |                         |                |     | Code                | Part Number           | Unit price<br>€ | MOQ | Part Number          | Unit price<br>€ | MOQ | Part Number          | Unit price<br>€ | MOQ |
|    | 2   | 22n 50V X7R             | 0805                   | C87, C90                | AUX PS         | 2   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 5   |                         |                        |                         |                | 5   | 1759252             | MC0805B223K500 CT     | 0,016           | 10  | CL21B223KBAN NNC     | 0,058           |     | C0805C223K5R AC      | 0,031           |     |
| 14 | 5   | 2n2 50V NP0             | 0805 / 0603            | C47, C48, C49, C51, C81 | Power board    | 10  | 1759236             | MC0805N222J500 CT     | 0,052           | 10  | CL21C222JBFN NNG     | 0,078           |     | GRM2165C1H22 2JA01D  | 0,076           |     |
| 15 | 3   | 2u2 25V X7R             | 0805                   | C24, C36, C38           | Power board    | 6   | 2320829             | MC0805B225K250 CT     | 0,106           | 10  | CL21B225KAFN NWE     | 0,126           |     | GRM21BR71E22 5KA73L  | 0,101           |     |
| 16 | 2   | 330p 50V NP0            | 0805 / 0603            | C17, C33                | Power board    | 4   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 1   | 330p 50V NP0            | 0805 / 0603            | C89                     | AUX PS         | 1   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 5   |                         |                        |                         |                | 5   | 1759213             | MC0805N331J500 CT     | 0,027           | 10  | CL21C331JBAN NNC     | 0,029           |     | C0805C331J5GA C      | 0,029           |     |
| 17 | 5   | 3n3 50V X7R or NP0      | 0805 / 0603            | C40, C71, C72, C77, C78 | Power board    | 10  | 1759291             | MC0805B332K101 CT     | 0,015           | 10  | CL21B332KBAN NNC     | 0,045           |     | C0805C332K5R AC      | 0,024           |     |
| 18 | 1   | 3n9 50V X7R or NP0      | 0805 / 0603            | C95                     | AUX PS         | 1   | 1759240             | MC0805B392K500 CT     | 0,022           | 10  | CL21B392KBAN NNC     | 0,090           |     | C0805C392K5R ACTU    | 0,091           |     |
| 19 | 3   | 470n 50V X7R            | 0805, 50V              | C9, C25, C32            | Power board    | 6   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 2   | 470n 50V X7R            | 0805, 50V              | C104, C109              | Arduino Shield | 2   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 8   |                         |                        |                         |                | 8   | 2470492             | GRM21BR71H474 KA88L   | 0,163           | 5   | CL21B474KBFN FNE     | 0,139           |     | C0805C474K5R ACTU    | 0,103           |     |
| 20 | 1   | 470p 50V NP0            | 0805 / 0603            | C23                     | Power board    | 2   | 1759217             | MC0805N471J500 CT     | 0,023           | 10  | CL21C471JBAN NNC     | 0,090           |     | 08055A471JAT2 A      | 0,091           |     |
| 21 | 2   | 47n 50V X7R             | 0805                   | C148, C152              | Arduino Shield | 2   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 1   | 47n 50V X7R             | 0805                   | C98                     | AUX PS         | 1   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 3   |                         |                        |                         |                | 3   | 2496983             | 0805B473K500CT        | 0,023           | 10  | CL21B473KBCN NNC     | 0,090           |     | 08055C473KAT2 A      | 0,091           |     |
| 22 | 1   | 47n 400V Polyester Film | THT R=7,5mm            | C86                     | AUX PS         | 1   | 2468839             | B32520E6473K000       | 0,358           | 1   | -                    |                 |     | -                    |                 |     |
|    | 4   | 47p 50V NP0             | 0805 / 0603            | C46, C52                | Power board    | 4   | 1414692             | C0805C470J5GAC TU     | 0,028           | 10  | CL21C470JBAN NNC     | 0,043           |     | C0805C470J5GA CTU    | 0,029           |     |
| 24 | 1   | 47u 35V                 | SMD ELCO, Ø6.3 x 5.8mm | C119                    | Arduino Shield | 1   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 2   | 47u 35V                 | SMD ELCO, Ø6.3 x 5.8mm | C27, C35                | Power board    | 4   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 5   |                         |                        |                         |                | 5   | 9695850             | EEEFK1V470P           | 0,493           | 1   | EEEFK1V470P          | 0,440           |     | EEEFK1V470P          | 0,443           |     |
| 25 | 4   | 4n7 100V X7R            | 0805                   | C1, C2, C3, C22         | Power board    | 8   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 4   | 4n7 100V X7R            | 0805                   | C105, C108, C110, C112  | Arduino board  | 4   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 12  |                         |                        |                         |                | 12  | 1759293             | MC0805B472K101 CT     | 0,019           | 10  | CL21B472KCAN NNC     | 0,065           |     | GRM21AR72D47 2KW01D  | 0,050           |     |
| 26 | 1   | 4u7 10V                 | 1206, Tantalum         | C145                    | Arduino Shield | 1   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 1   | 4u7 10V                 | 1206, Tantalum         | C43                     | Power board    | 2   |                     |                       |                 |     |                      |                 |     |                      |                 |     |
|    | 3   |                         |                        |                         |                | 3   | 1457428             | T491A475K016AT        | 0,238           | 5   | T491A475K010A T      | 0,310           |     | T491A475K010A T      | 0,299           |     |
| 27 | 3   | 4u7 100V X7R            | 1210, 100V, X7R        | C6, C7, C8              | Power board    | 6   | 2211140             | CGA6M3X7S2A47 5K200AB | 1,560           | 1   | GRJ32DC72A47 5KE11L  | 1,240           |     | GRJ32DC72A47 5KE11L  | 1,250           |     |
| 28 | 3   | 4u7 25V X7R             | 1210, 25V              | C88, C92, C93           | AUX PS         | 3   | 1907365             | C3225X7R1E475K 200AA  | 0,484           | 1   | C3225X7R1E475 K200AA | 0,390           |     | C3225X7R1E475 K200AA | 0,389           |     |

| RS Components |     |                         |          |                       |                 |     | TME                 |                 |     |     |     | Price calculation for 1 set |                   |           |             |
|---------------|-----|-------------------------|----------|-----------------------|-----------------|-----|---------------------|-----------------|-----|-----|-----|-----------------------------|-------------------|-----------|-------------|
| #             | Qty | Part name               | Code     | Part Number           | Unit price<br>€ | MOQ | Code / Part Number  | Unit price<br>€ | MOQ | THT | SMD | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
|               | 2   | 22n 50V X7R             |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 464-6701 | 08055C223KAT2 A       | 0,015           | 50  | CL21B223KBANNNC     | 0,008           | 100 |     | 5   | TME                         | 0,008 €           | 10        | 0,084       |
| 14            | 5   | 2n2 50V NP0             | 802-9905 | C0805C222J5G ACTU     | 0,043           | 100 | GRM2165C1H222JA0 1D | 0,015           | 100 |     | 10  | TME                         | 0,015 €           | 10        | 0,145       |
| 15            | 3   | 2u2 25V X7R             | 766-1031 | CL21B225KAFN NNF      | 0,057           | 100 | CL21B225KAFNNNG     | 0,027           | 50  |     | 6   | TME                         | 0,027 €           | 10        | 0,274       |
| 16            | 2   | 330p 50V NP0            |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               | 1   | 330p 50V NP0            |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 723-6271 | GRM2165C1H3 31JA01D   | 0,042           | 100 | CL21C331JBANNNC     | 0,014           | 100 |     | 5   | TME                         | 0,014 €           | 10        | 0,138       |
| 17            | 5   | 3n3 50V X7R or NP0      | 237-7009 | GRM216R71H3 32KA01D   | 0,038           | 50  | CL21B332KBANNNC     | 0,007           | 100 |     | 10  | Farnell<br>TME              | 0,007 €           | 10        | 0,069       |
| 18            | 1   | 3n9 50V X7R or NP0      | 766-1047 | CL21C392JBFN NNF      | 0,074           | 50  | CL21B392KBANNNC     | 0,009           | 100 |     | 1   | TME                         | 0,009 €           | 1         | 0,009       |
| 19            | 3   | 470n 50V X7R            |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               | 2   | 470n 50V X7R            |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 766-1053 | CL21B474KBF4 PNG      | 0,085           | 50  | CL21B474KBFNNNG     | 0,015           | 100 |     | 8   | TME                         | 0,015 €           | 10        | 0,153       |
| 20            | 1   | 470p 50V NP0            | 378-700  | 0805CG471J9B B        | 0,021           | 25  | CL21C471JBANNNC     | 0,009           | 100 |     | 2   | Farnell<br>TME              | 0,009 €           | 2         | 0,018       |
| 21            | 2   | 47n 50V X7R             |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               | 1   | 47n 50V X7R             |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 391-303  | 08055C473KAT2 A       | 0,011           | 50  | CC0805KRX7R9473     | 0,008           | 100 |     | 3   | TME                         | 0,008 €           | 3         | 0,025       |
| 22            | 1   | 47n 400V Polyester Film | 668-9993 | B32520C6473K1 89      | 0,241           | 10  | -                   |                 |     | 1   |     | RS                          | 0,241 €           | 1         | 0,241       |
| 23            | 2   | 47p 50V NP0             | 264-4270 | C0805C470J5G ACTU     | 0,014           | 25  | CC0805JRNPO9470     | 0,007           | 100 |     | 4   | TME                         | 0,007 €           | 10        | 0,074       |
| 24            | 1   | 47u 35V                 |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               | 2   | 47u 35V                 |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 565-623  | EEEFK1V470AP          | 0,165           | 5   | EEEFK1V470P         | 0,157           | 5   |     | 5   | TME                         | 0,157 €           | 5         | 0,786       |
| 25            | 4   | 4n7 100V X7R            |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               | 4   | 4n7 100V X7R            |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 698-3364 | 08051C472KAZ 2A       | 0,036           | 25  | CL21B472KCANNNC     | 0,006           | 100 |     | 12  | TME                         | 0,006 €           | 20        | 0,126       |
| 26            | 1   | 4u7 10V                 |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               | 1   | 4u7 10V                 |          |                       |                 |     |                     |                 |     |     |     |                             |                   |           |             |
|               |     |                         | 538-2341 | T491A475K016A T       | 0,179           | 10  | T491A475M010AT      | 0,128           | 5   |     | 3   | TME                         | 0,128 €           | 5         | 0,640       |
| 27            | 3   | 4u7 100V X7R            | 915-5415 | CGA6M3X7S2A 475K200AB | 0,686           | 5   | -                   |                 |     |     | 6   | RS                          | 0,686 €           | 6         | 4,116       |
| 28            | 3   | 4u7 25V X7R             | 515-8508 | GRM32ER71H4 75KA88L   | 0,608           | 10  | CL32A475KAULNNE     | 0,119           | 10  |     | 3   | TME                         | 0,119 €           | 3         | 0,358       |

| #  | Qty | Part name                            | Package                | Reference designator                       | Board name     | Qty | Farnell / Element14 |                   |                 |     | Digi-Key         |                 |     | Mouser              |                 |     |
|----|-----|--------------------------------------|------------------------|--|----------------|-----|---------------------|-------------------|-----------------|-----|------------------|-----------------|-----|---------------------|-----------------|-----|
|    |     |                                      |                        |  |                |     | Code                | Part Number       | Unit price<br>€ | MOQ | Part Number      | Unit price<br>€ | MOQ | Part Number         | Unit price<br>€ | MOQ |
| 29 | 2   | 6n8 50V X7R or NP0                   | 0603                   | C132, C134                                 | Arduino Shield | 2   | 1759100             | MC0603B682K500 CT | 0,007           | 10  | CL10B682KB8N NNC | 0,090           |     | GRM188R71H68 2KA01J | 0,091           |     |
| 30 | 1   | 6n8 (X1 / Y2) PP Film 300Vac 1000Vdc | THT R=10mm             | C85  | AUX PS         | 1   | 2478385             | R413F16804000M    | 0,528           | 1   | R413F16804000 M  | 0,520           |     | R413F16804000 M     | 0,525           |     |
| 31 | 1   | 1F 5,5V Backup Cap                   | THT                    | C127                                       | Arduino Shield | 1   | 9697497             | EEC-S5R5H105      | 4,660           | 1   | EEC-S5R5H105     | 3,480           |     | EEC-S5R5H105        | 3,510           |     |
| 32 | 1   | 100u 63V                             | SMD ELCO; Ø10 x 10.2mm | C18  | Power board    | 2   | 9696040             | EEEFK1J101P       | 0,846           | 1   | EEE-FK1J101P     | 0,930           |     | EEE-FK1J101P        | 0,932           |     |
| 33 | 1   | 47u 63V                              | SMD ELCO; Ø8x10.2mm    | C16  | Power board    | 2   | 9696032             | EEEFK1J470P       | 1,040           | 1   | EEE-FK1J470P     | 0,880           |     | EEE-FK1J470P        | 0,887           |     |
| 34 | 2   | 22u 50V                              | SMD ELCO; Ø6.3x5.8mm   | C106, C111                                 | Arduino Shield | 2   | 9696016             | EEEFK1J220P       | 0,537           | 1   | PCE3820CT-ND     | 0,760           |     | 667-EEE-FK1J220P    | 0,760           |     |
| 35 | 1   | BAS316                               | SOD-323                | D21  | AUX PS         | 1   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 6   | BAS316                               | SOD-323                | D22, D23, D24, D25, D27, D33               | Arduino Shield | 6   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 9   | BAS316                               | SOD-323                | D6, D11, D12, D13, D14, D15, D16, D17, D18 | Power board    | 18  |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    |     |                                      |                        |  |                | 25  | 8734275             | BAS316,115        | 0,192           | 5   | BAS316,115       | 0,175           |     | BAS316,115          | 0,174           |     |
| 36 | 1   | BAT54S                               | SOT-23                 | D28  | Arduino Shield | 1   | 1621835             | BAT54S            | 0,125           | 10  | BAT54SLT1G       | 0,150           |     | BAT54SLT1G          | 0,145           |     |
| 37 | 1   | DFLS1100-7                           | PowerDi 123            | D19  | AUX PS         | 1   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 2   | DFLS1100-7                           | PowerDi 123            | D7, D10                                    | Power board    | 4   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    |     |                                      |                        |  |                | 5   | 1713889             | DFLS1100-7        | 0,424           | 1   | DFLS1100-7       | 0,370           |     | DFLS1100-7          | 0,476           |     |
| 38 | 1   | SKL16                                | SOD-323                | D20  | AUX PS         | 1   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 1   | SKL16                                | SOD-323                | D29  | Arduino Shield | 1   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 2   | SKL16                                | SOD-323                | D8, D9                                     | Power board    | 4   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    |     |                                      |                        |  |                | 6   | 8738025             | PMEG4005AEA       | 0,104           | 5   | PMEG4005AEA      | 0,325           |     | PMEG4005AEA         | 0,286           |     |
| 39 | 1   | SMBJ5.0A-TR                          | DO-214AA               | D26  | Arduino Shield | 1   | 9886311             | SMBJ5.0A-TR       | 0,088           | 10  | SMBJ5.0A-TR      | 0,380           |     | SMBJ5.0A            | 0,302           |     |
| 40 | 1   | STPS15H100                           | TO-252                 | D5   | Power board    | 2   | 2344052             | STPS15H100CB-TR   | 1,070           | 1   | STPS15H100CB     | 0,900           |     | STPS15H100CB        | 0,896           |     |
| 41 | 1   | 50mA, polyfuse                       | 1210                   | F1   | Arduino board  | 1   | 1861176             | MC36203           | 0,163           | 5   | 507-1476-1-ND    | 0,200           | 1   | 530-0ZCJ0005FF2E    | 0,101           | 1   |
| 42 | 3   | 60R@100MHz                           | 0603 Ferrite Bead      | FB1, FB2, FB3                              | Power board    | 6   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 1   | 60R@100MHz                           | 0603 Ferrite Bead      | FB4  | AUX PS         | 1   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    | 1   | 60R@100MHz                           | 0603 Ferrite Bead      | FB7  | Arduino Shield | 1   |                     |                   |                 |     |                  |                 |     |                     |                 |     |
|    |     | Würth 742792602                      | 0603 Ferrite Bead      |  |                | 8   | 1635704             | 742792602         | 0,210           | 1   | 742792602        | 0,210           |     | 742792602           | 0,160           |     |
| 43 | 1   | LTC3864EMSE#PBF                      | MSOP-12                | IC1  | Power board    | 2   | 2293128             | LTC3864EMSE#PB F  | 4,520           | 1   | LTC3864EMSE# PBF | 3,960           |     | -                   |                 |     |
| 44 | 1   | REF5025AIDG4                         | SOIC-8                 | IC10                                       | Power board    | 2   | 1439622             | REF5025AIDG4      | 3,720           | 1   | REF5025AIDR      | 2,990           |     | REF5025AIDR         | 2,910           |     |
| 45 | 1   | DAC8552IDGKTG4                       | MSOP-8 (VSSOP-8)       | IC11                                       | Power board    | 2   | 1329584             | DAC8552IDGKTG4    | 6,420           | 1   | DAC8552IDGKT     | 7,660           |     | DAC8552IDGKR        | 6,510           |     |
| 46 | 1   | ADG465BRTZ                           | SOT-23                 | IC12                                       | Power board    | 2   | 2376952             | ADG465BRTZ-REEL7  | 1,690           | 1   | Discontinued     |                 |     | Discontinued        |                 |     |
| 47 | 1   | TS5A9411DCKT                         | SC-70                  | IC13                                       | Power board    | 2   | 1755582             | TS5A9411DCKT      | 1,050           | 1   | TS5A9411DCKR     | 0,560           |     | TS5A9411DCKR        | 0,534           |     |
| 48 | 1   | ADS1120IPWR                          | TSSOP-16               | IC14                                       | Power board    | 2   | 2402249             | ADS1120IPWR       | 6,760           | 1   | ADS1120IPWR      | 6,250           |     | ADS1120IPWR         | 6,100           |     |
| 49 | 1   | LP339D                               | SOIC-14                | IC15                                       | Power board    | 2   | 9589686             | LP339D            | 0,573           | 1   | LP339DR          | 0,520           |     | LP339DR             | 0,498           |     |
| 50 | 1   | LM25575MH/NOPB                       | HTSSOP-16              | IC16                                       | AUX PS         | 1   | 1564783             | LM25575MH/NOPB    | 4,360           | 1   | LM25575MHX/N OPB | 3,540           |     | LM25575MHX/N OPB    | 3,450           |     |
| 51 | 1   | MC79L05                              | SOIC-8                 | IC2  | Power board    | 2   | 2323583             | MC79L05ACD        | 0,428           | 1   | MC79L05ACD       | 0,380           |     | MC79L05ACD          | 0,371           |     |

| RS Components |     |                                      |          |                   |                 |     | TME                |                 |     | THT   SMD |    | Price calculation for 1 set |                   |           |             |
|---------------|-----|--------------------------------------|----------|-------------------|-----------------|-----|--------------------|-----------------|-----|-----------|----|-----------------------------|-------------------|-----------|-------------|
| #             | Qty | Part name                            | Code     | Part Number       | Unit price<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ |           |    | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
| 29            | 2   | 6n8 50V X7R or NP0                   | 147-825  | C0603C682K5R ACTU | 0,007           | 50  | CL10B682JB8NNNC    | 0,004           | 100 |           | 2  | TME                         | 0,004 €           | 10        | 0,042       |
| 30            | 1   | 6n8 (X1 / Y2) PP Film 300Vac 1000Vdc | 871-2489 | 890334023003C S   | 0,420           | 10  | MKP-Y2-6N8         | 0,158           | 5   | 1         |    | TME                         | 0,158 €           | 1         | 0,158       |
| 31            | 1   | 1F 5,5V Backup Cap                   | 339-6843 | EECS5R5H105       | 3,556           | 1   | EECS5R5H105        | 2,190           | 1   | 1         |    | TME                         | 2,190 €           | 1         | 2,190       |
| 32            | 1   | 100u 63V                             | 708-3623 | EEEFK1J101P       | 0,641           | 5   | EEEFK1J101P        | 0,380           | 5   |           | 2  | TME                         | 0,380 €           | 2         | 0,760       |
| 33            | 1   | 47u 63V                              | 708-3614 | EEEFK1J470P       | 0,784           | 5   | EEEFK1J470P        | 0,456           | 1   |           | 2  | TME                         | 0,456 €           | 2         | 0,911       |
| 34            | 2   | 22u 50V                              | 708-3598 | EEEFK1J220P       | 0,255           | 5   | EEEFK1J220P        | 0,260           | 5   |           | 2  | RS                          | 0,255 €           | 2         | 0,510       |
| 35            | 1   | BAS316                               |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 6   | BAS316                               |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 9   | BAS316                               |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               |     |                                      | 397-2914 | BAS316,115        | 0,195           | 50  | BAS316,115         | 0,019           | 25  |           | 25 | TME                         | 0,019 €           | 25        | 0,463       |
| 36            | 1   | BAT54S                               | 670-8797 | BAT54S            | 0,202           | 10  | BAT54S.215         | 0,017           | 50  |           | 1  | TME                         | 0,017 €           | 1         | 0,017       |
| 37            | 1   | DFLS1100-7                           |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 2   | DFLS1100-7                           |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               |     |                                      | 708-2292 | DFLS1100-7        | 0,392           | 25  | -                  |                 |     |           | 5  | Digikey                     | 0,370 €           | 5         | 1,850       |
| 38            | 1   | SKL16                                |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 1   | SKL16                                |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 2   | SKL16                                |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               |     |                                      | 485-729  | PMEG4005AEA, 115  | 0,325           | 20  | SKL16              | 0,095           | 5   |           | 6  | TME                         | 0,095 €           | 10        | 0,952       |
| 39            | 1   | SMBJ5.0A-TR                          | 714-7210 | SMBJ5.0A-TR       | 0,245           | 25  | SMBJ5.0A-TR        | 0,094           | 5   |           | 1  | Farnell                     | 0,088 €           | 1         | 0,088       |
| 40            | 1   | STPS15H100                           | 795-9075 | STPS15H100CB -TR  | 0,924           | 5   | -                  |                 |     |           | 2  | Mouser                      | 0,896 €           | 2         | 1,792       |
| 41            | 1   | 50mA, polyfuse                       | -        |                   |                 |     | SM005-60           | 0,092           | 10  |           | 1  | TME                         | 0,092 €           | 1         | 0,092       |
| 42            | 3   | 60R@100MHz                           |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 1   | 60R@100MHz                           |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               | 1   | 60R@100MHz                           |          |                   |                 |     |                    |                 |     |           |    |                             |                   |           |             |
|               |     | Würth 742792602                      | 669-4049 | 742792602         | 0,172           | 10  | LCBA-600           | 0,027           | 25  |           | 8  | TME                         | 0,027 €           | 10        | 0,269       |
| 43            | 1   | LTC3864EMSE#PBF                      | -        |                   |                 |     | -                  |                 |     |           | 2  | Digikey                     | 3,960 €           | 2         | 7,920       |
| 44            | 1   | REF5025AIDG4                         | 404-304  | REF5025AID        | 3,500           | 1   | -                  |                 |     |           | 2  | Mouser                      | 2,910 €           | 2         | 5,820       |
| 45            | 1   | DAC8552IDGKTG4                       | 662-1498 | DAC8552IDGKT      | 6,524           | 1   | -                  |                 |     |           | 2  | Farnell                     | 6,420 €           | 2         | 12,840      |
| 46            | 1   | ADG465BRTZ                           | -        |                   |                 |     | -                  |                 |     |           | 2  | Farnell                     | 1,690 €           | 2         | 3,380       |
| 47            | 1   | TS5A9411DCKT                         | 459-459  | TS5A9411DCKT      | 0,570           | 10  | -                  |                 |     |           | 2  | Mouser                      | 0,534 €           | 2         | 1,068       |
| 48            | 1   | ADS1120IPWR                          | -        |                   |                 |     | -                  |                 |     |           | 2  | Mouser                      | 6,100 €           | 2         | 12,200      |
| 49            | 1   | LP339D                               | 661-2659 | LP339DR           | 0,175           | 10  | LP339D             | 0,244           | 3   |           | 2  | RS                          | 0,175 €           | 3         | 0,525       |
| 50            | 1   | LM25575MH/NOPB                       | 288-774  | LM25575MH/NO PB   | 4,060           | 1   | -                  |                 |     |           | 1  | Mouser                      | 3,450 €           | 1         | 3,450       |
| 51            | 1   | MC79L05                              | 661-6131 | MC79L05ACD        | 0,308           | 10  | MC79L05ACD         | 0,202           | 3   |           | 2  | TME                         | 0,202 €           | 3         | 0,606       |

**EEZ PSU H24005 BOM (r5B11, 2016-12-14)**  
Project source code at <https://github.com/eez-open>

| #  | Qty | Part name          | Package                      | Reference designator | Board name     | Qty | Farnell / Element14 |                     |                 |     | Digi-Key           |                 |     | Mouser             |                 |     |
|----|-----|--------------------|------------------------------|----------------------|----------------|-----|---------------------|---------------------|-----------------|-----|--------------------|-----------------|-----|--------------------|-----------------|-----|
|    |     |                    |                              |                      |                |     | Code                | Part Number         | Unit price<br>€ | MOQ | Part Number        | Unit price<br>€ | MOQ | Part Number        | Unit price<br>€ | MOQ |
| 52 | 1   | TLC5925IDBQR       | SSOP-24                      | IC20                 | Arduino Shield | 1   | 1694438             | TLC5925IDBQR        | 1,520           | 1   | TLC5925IDBQR       | 1,370           |     | TLC5925IDBQR       | 1,330           |     |
| 53 | 2   | Si8641EC-B-IS1     | SOIC-16                      | IC21, IC25           | Arduino Shield | 2   | 2423294             | Si8641EC-B-IS1      | 3,210           | 1   | Si8641EC-B-IS1     | 2,780           |     | Si8641EC-B-IS1     | 2,720           |     |
| 54 | 2   | Si8651EC-B-IS1     | SOIC-16                      | IC22, IC23           | Arduino Shield | 2   | 2423323             | Si8651EC-B-IS1      | 3,150           | 1   | Si8651EC-B-IS1     | 3,190           |     | Si8651EC-B-IS1     | 3,060           |     |
| 55 | 1   | LD1117ADT33TR      | TO-252                       | IC24                 | Arduino Shield | 1   | 1087169             | LD1117DT33          | 0,358           | 5   | LD1117ADT33TR      | 0,590           |     | LD1117ADT33TR      | 0,570           |     |
| 56 | 1   | PCA21125T/Q900/1,1 | TSSOP-14                     | IC26                 | Arduino Shield | 1   | 2400445             | PCA21125T/Q900/1,1  | 1,870           | 1   | PCA21125T/Q900/1,1 | 1,610           |     | PCA21125T/Q900/1,1 | 1,660           |     |
| 57 | 1   | AT25256B           | SOIC-8                       | IC27                 | Arduino Shield | 1   | 1841577             | AT25256B-SSHL-B     | 1,190           | 1   | AT25256B-SSHL-B    | 1,300           |     | AT25256B-SSHL-B    | 1,290           |     |
| 58 | 1   | W5500              | LQFP-48                      | IC28                 | Arduino Shield | 1   | -                   |                     |                 |     | W5500              | 3,750           |     | W5500              | 2,390           |     |
| 59 | 1   | MC78L05            | SOIC-8                       | IC3                  | Power board    | 2   | 9593845             | UA78L05ACDR         | 0,488           | 1   | MC78L05ACD         | 0,360           |     | MC78L05ACD         | 0,366           |     |
| 60 | 1   | BC857BS            | SOT-363                      | IC29                 | Arduino Shield | 1   | 1653608             | BC857BDW1T1G        | 0,141           | 1   | BC857BDW1T1G       | 0,210           |     | BC857BDW1T1G       | 0,199           |     |
| 61 | 1   | TLC555             | SOIC-8                       | IC30                 | Arduino Shield | 1   | 9589880             | NE555DR             | 0,300           | 1   | NE555D             | 0,350           |     | NE555D             | 0,353           |     |
| 62 | 1   | SN74LVC08APWR      | SSOP-8                       | IC31                 | Arduino Shield | 1   | 1102978             | SN74LVC08APWR       | 0,236           | 1   | 296-1221-1-ND      | 0,350           | 1   | 595-SN74LVC08APW   | 0,335           | 1   |
| 63 | 1   | TPS3705-33D        | SOIC-8                       | IC32                 | Arduino Shield | 1   | 2296066             | TPS3705-33D         | 1,330           | 1   | TPS3705-33DR       | 1,580           |     | TPS3705-33D        | 1,840           |     |
| 64 | 1   | SN74LV1T34DBVR     | SOT-23                       | IC33                 | Arduino Shield | 1   | 2499914             | SN74LV1T34DBVR      | 0,457           | 1   | SN74LV1T34DBVR     | 0,410           |     | SN74LV1T34DBVR     | 0,398           |     |
| 65 | 1   | SN74LVC2G02DCTR    | SSOP-8                       | IC34                 | Arduino Shield | 1   | 1236358             | SN74LVC2G02DC TR    | 0,452           | 1   | SN74LVC2G02DCTR    | 0,590           |     | SN74LVC2G02DCTR    | 0,570           |     |
| 66 | 1   | LM5574MTX/NOPB     | TSSOP-16                     | IC4                  | Power board    | 2   | 2323534             | LM5574MTX/NOPB      | 3,930           | 1   | LM5574MTX/NOPB     | 3,430           |     | LM5574MTX/NOPB     | 3,340           |     |
| 67 | 1   | LP2951D            | SOIC-8                       | IC5                  | Power board    | 2   | 1755066             | LP2951D             | 0,573           | 1   | LP2951DR           | 0,520           |     | LP2951DR           | 0,498           |     |
| 68 | 2   | TL072CD            | SOIC-8                       | IC6, IC7             | Power board    | 4   | 1467663             | TL072CDT            | 0,252           | 5   | TL072CDT           | 0,430           |     | TL072CDT           | 0,416           |     |
| 69 | 1   | OP27GSZ            | SOIC-8                       | IC8                  | Power board    | 2   | 9426124             | OP27GSZ             | 2,810           | 1   | OP27GSZ            | 3,140           |     | OP27GSZ            | 3,080           |     |
| 70 | 1   | MCP23S08-E/SO      | SOIC-18                      | IC9                  | Power board    | 2   | 1332092             | MCP23S08-E/SO       | 1,030           | 1   | MCP23S08-E/SO      | 0,960           |     | MCP23S08-E/SO      | 1,030           |     |
| 71 | 1   | 1-726388-2         | THT                          | J6                   | Arduino board  | 1   | 2308760             | 1-726388-2          | 0,085           | 10  | A121493-ND         | 0,210           | 1   | 571-1-726388-2     | 0,235           | 1   |
| 72 | 2   | RT424005           | THT                          | K_PAR, K_SER         | Arduino Shield | 2   | 9950168             | G2RL-2 5DC          | 3,940           | 1   | RTE24005           | 2,920           |     | RTE24005           | 2,850           |     |
| 73 | 2   | G6K-2F-5DC         | SMD, relay                   | K_S1, K_S2           | Arduino Shield | 2   | 4446185             | G6K-2F 5DC          | 5,870           | 1   | G6K-2F DC5         | 3,860           |     | G6K-2F-5DC         | 4,000           |     |
| 74 | 1   | SK 145/37,5        | THT Heatsink                 | KK1                  | AUX PS         | 1   | 4621414             | SK 145/37,5 STS-220 | 3,530           | 1   | -                  |                 |     | -                  |                 |     |
| 75 | 1   | RN114-4/02         | THT, solder on bottom layer! | L1                   | Power board    | 2   | 1191484             | RN114-4-02          | 3,720           | 1   | RN114-4/02         | 2,870           |     | RN114-4/02         | 2,600           |     |
| 76 | 1   | 470uH              | SMD; 7.3mm x 7.3mm           | L10                  | AUX PS         | 1   | 2455059             | SRR0745A-471M       | 0,918           | 1   | SRR0745A-471M      | 0,770           |     | SRR0745A-471M      | 0,814           |     |
| 77 | 1   | 33uH - 7443551331  | SMD; 13.2mm x 12.8mm         | L2                   | Power board    | 2   | 2211631             | Würth - 7443551331  | 3,070           | 1   | 7443551331         | 3,380           |     | 7443551331         | 2,970           |     |
| 78 | 2   | IHLP2020CZER3R3M11 | SMD; 5.49mm x 5.18mm         | L3, L4               | Power board    | 4   | 1741325             | IHLP2020CZER3R3M11  | 1,410           | 5   | IHLP2020CZER3R3M11 | 2,160           |     | IHLP2020CZER3R3M11 | 1,030           |     |
| 79 | 3   | 2u2                | 0805                         | L5, L6, L7           | Power board    | 6   |                     |                     |                 |     |                    |                 |     |                    |                 |     |
|    | 1   | 2u2                | 0805                         | L8                   | AUX PS         | 1   |                     |                     |                 |     |                    |                 |     |                    |                 |     |
|    |     |                    |                              |                      |                | 7   | 2215643             | MLZ2012A2R2WT       | 0,118           | 10  | 445-3168-1-ND      | 0,110           | 1   | 810-MLZ2012A2R2MT  | 0,109           | 1   |
| 80 | 1   | 100uH              | SMD, 12mm x 12mm             | L9                   | AUX PS         | 1   | 2113014             | SRU1038-101Y        | 1,010           | 1   | SRU1038-101Y       | 0,720           |     | SRU1038-101Y       | 0,758           |     |
| 81 | 1   | TFT_320QVT         | THT; 2x20-pin socket         | LCD1                 | Arduino Shield | 1   | 7992033             | M20-7832046         | 2,750           | 1   | M20-7832046        | 3,160           |     | M20-7832046        | 2,530           |     |
| 82 | 2   | HSMG-C170          | 0805 Green                   | LED_O1, LED_O2       | Arduino Shield | 2   | 5790852             | HSMG-C170           | 0,204           | 10  | HSMG-C170          | 0,490           |     | HSMG-C170          | 0,060           |     |

| 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 | THT     | SMD | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
| 52            | 1   | TLC5925IDBQR       | 812-3984 | TLC5925IDBQR           | 1,109        | 10  | -                  |              |     |         | 1   | RS                          | 1,109 €           | 1         | 1,109       |
| 53            | 2   | Si8641EC-B-IS1     | 753-2438 | Out of stock           |              |     | -                  |              |     |         | 2   | Mouser                      | 2,720 €           | 2         | 5,440       |
| 54            | 2   | Si8651EC-B-IS1     | 753-2497 | Si8651EC-B-IS1         | 3,038        | 1   | -                  |              |     |         | 2   | RS                          | 3,038 €           | 2         | 6,076       |
| 55            | 1   | LD1117ADT33TR      | 686-9123 | LD1117ADT33T<br>R      | 0,294        | 10  | LD1117ADT33        | 0,315        | 3   |         | 1   | RS                          | 0,294 €           | 1         | 0,294       |
| 56            | 1   | PCA21125T/Q900/1,1 | -        |                        |              |     | -                  |              |     |         | 1   | Digikey                     | 1,610 €           | 1         | 1,610       |
| 57            | 1   | AT25256B           | 738-0079 | AT25256B-<br>SSHL-B    | 1,267        | 2   | 25AA256-I/SN       | 1,290        | 1   |         | 1   | Farnell                     | 1,190 €           | 1         | 1,190       |
| 58            | 1   | W5500              | -        |                        |              |     | W5500              | 2,190        | 1   |         | 1   | TME                         | 2,190 €           | 1         | 2,190       |
| 59            | 1   | MC78L05            | 688-9269 | MC78L05ABDR<br>2G      | 0,245        | 2   | MC78L05ABDG        | 0,165        | 3   |         | 2   | TME                         | 0,165 €           | 3         | 0,495       |
| 60            | 1   | BC857BS            | 690-0101 | BC857BDW1T1<br>G       | 0,022        | 25  | BC857BS            | 0,027        | 25  |         | 1   | RS                          | 0,022 €           | 1         | 0,022       |
| 61            | 1   | TLC555             | 662-4006 | TLC555CDR              | 0,218        | 10  | TLC555CDR          | 0,384        | 3   |         | 1   | RS                          | 0,218 €           | 1         | 0,218       |
| 62            | 1   | SN74LVC08APWR      | 662-8588 | SN74LVC08AP<br>WR      | 0,240        | 10  | -                  |              |     |         | 1   | Farnell                     | 0,236 €           | 1         | 0,236       |
| 63            | 1   | TPS3705-33D        | 662-3331 | TPS3705-33D            | 0,528        | 5   | -                  |              |     |         | 1   | RS                          | 0,528 €           | 1         | 0,528       |
| 64            | 1   | SN74LV1T34DBVR     | -        |                        |              |     | -                  |              |     |         | 1   | Mouser                      | 0,398 €           | 1         | 0,398       |
| 65            | 1   | SN74LVC2G02DCTR    | -        |                        |              |     | SN74LVC2G02DCTR    | 0,252        | 5   |         | 1   | TME                         | 0,252 €           | 1         | 0,252       |
| 66            | 1   | LM5574MTX/NOPB     | 288-960  | LM5574MT/NOP<br>B      | 3,948        | 1   | LM5574MT           | 4,150        | 1   |         | 2   | Mouser                      | 3,340 €           | 2         | 6,680       |
| 67            | 1   | LP2951D            | 796-8095 | LP2951D                | 0,613        | 5   | LP2951CM/NOPB      | 0,495        | 1   |         | 2   | TME                         | 0,495 €           | 2         | 0,990       |
| 68            | 2   | TL072CD            | 857-907P | TL072CD                | 0,252        | 1   | TL072CD            | 0,164        | 3   |         | 4   | TME                         | 0,164 €           | 6         | 0,981       |
| 69            | 1   | OP27GSZ            | 522-8304 | OP27GSZ                | 3,024        | 1   | OP27GSZ            | 1,550        | 1   |         | 2   | TME                         | 1,550 €           | 2         | 3,100       |
| 70            | 1   | MCP23S08-E/SO      | 403-812  | MCP23S08-<br>E/SO      | 1,249        | 5   | MCP23S08-E/SO      | 1,060        | 1   |         | 2   | Digikey                     | 0,960 €           | 2         | 1,920       |
| 71            | 1   | 1-726388-2         | 680-5772 | 1-726388-2             | 0,060        | 100 | 1-726388-2         | 0,082        | 10  | 1       |     | RS                          | 0,060 €           | 2         | 0,120       |
| 72            | 2   | RT424005           | 198-6898 | RTE24005               | 4,676        | 1   | RT424005           | 1,260        | 1   | 2       |     | TME                         | 1,260 €           | 2         | 2,520       |
| 73            | 2   | G6K-2F-5DC         | 683-9633 | G6K2F5DC               | 4,928        | 1   | G6K-2F-5DC         | 2,490        | 1   |         | 2   | TME                         | 2,490 €           | 2         | 4,980       |
| 74            | 1   | SK 145/37,5        | -        |                        |              |     | -                  |              |     | 1       |     | Farnell                     | 3,530 €           | 1         | 3,530       |
| 75            | 1   | RN114-4/02         | 525-3697 | RN114-4-02             | 2,912        | 1   | CAF-3.1-1.2        | 1,820        | 1   | 2       |     | TME                         | 1,820 €           | 2         | 3,640       |
| 76            | 1   | 470uH              | 770-1182 | DR74-471-R             | 0,977        | 5   | DE0704-470         | 0,254        | 5   |         | 1   | TME                         | 0,254 €           | 1         | 0,254       |
| 77            | 1   | 33uH - 7443551331  | -        |                        |              |     | -                  |              |     |         | 2   | Mouser                      | 2,970 €           | 2         | 5,940       |
| 78            | 2   | IHLP2020CZER3R3M11 | 748-6912 | IHLP2020CZER<br>3R3M01 | 1,518        | 5   | -                  |              |     |         | 4   | Mouser                      | 1,030 €           | 4         | 4,120       |
| 79            | 3   | 2u2                |          |                        |              |     |                    |              |     |         |     |                             |                   |           |             |
|               | 1   | 2u2                |          |                        |              |     |                    |              |     |         |     |                             |                   |           |             |
|               |     |                    | 604-1524 | MLZ2012A2R2M<br>T      | 0,083        | 10  | -                  |              |     |         | 7   | RS                          | 0,083 €           | 10        | 0,830       |
| 80            | 1   | 100uH              | 692-0644 | SRU1048-101Y           | 0,756        | 1   | DE1205-100         | 0,299        | 5   |         | 1   | TME                         | 0,299 €           | 1         | 0,299       |
| 81            | 1   | TFT_320QVT         | 681-6851 | M20-7832046            | 3,027        | 5   | ZL262-40DG         | 0,329        | 2   | 1       |     | TME                         | 0,329 €           | 2         | 0,658       |
| 82            | 2   | HSMG-C170          | 435-6767 | HSMG-C170              | 0,206        | 50  | HSMG-C170          | 0,095        | 5   |         | 2   | Mouser                      | 0,060 €           | 2         | 0,120       |



| #   | Qty | Part name              | Package                      | Reference designator                                 | Board name     | Qty | Farnell / Element14 |                      |                 |     | Digi-Key             |                 |     | Mouser               |                 |     |
|-----|-----|------------------------|------------------------------|--|----------------|-----|---------------------|----------------------|-----------------|-----|----------------------|-----------------|-----|----------------------|-----------------|-----|
|     |     |                        |                              |  |                |     | Code                | Part Number          | Unit price<br>€ | MOQ | Part Number          | Unit price<br>€ | MOQ | Part Number          | Unit price<br>€ | MOQ |
| 83  | 5   | HSMH-C170              | 0805 Red                     | LED_CC1, LED_CC2,<br>LED_PROG1, LED_PROG2,<br>LED_SP | Arduino Shield | 5   | 5790840             | HSMH-C170            | 0,488           | 5   | HSMH-C170            | 0,440           |     | HSMH-C170            | 0,060           |     |
| 84  | 1   | HSMD-C170              | 0805 Orange                  | LED_PWR  | Arduino Shield | 1   | 5790864             | HSMD-C170            | 0,240           | 5   | HSMD-C170            | 0,440           |     | HSMD-C170            | 0,060           |     |
| 85  | 4   | HSMY-C170              | 0805 Yellow                  | LED_CV1, LED_CV2, LED_S1,<br>LED_S2                  | Arduino Shield | 4   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     | 1   | HSMY-C170              | 0805 Yellow                  | LED1   | Power board    | 2   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     |     |                        |                              |  |                | 6   | 5790876             | HSMY-C170            | 0,330           | 5   | HSMY-C170            | 0,440           |     | HSMY-C170            | 0,060           |     |
| 86  | 1   | 10K/Beta:3570K         | 0805                         | NTC1   | Power board    | 2   | 1612623             | NTCS0805E3103J<br>MT | 0,413           | 1   | NTCS0805E3103<br>JMT | 0,250           |     | NTCS0805E3103<br>JMT | 0,145           |     |
| 87  | 1   | MOC3052                | SMD; SDIP-6                  | OK1  | AUX PS         | 1   | 2453236             | MOC3052SM            | 0,884           | 1   | MOC3052SM            | 0,910           |     | MOC3052SM            | 0,750           |     |
| 88  | 1   | MOC3062                | SMD; SDIP-6                  | OK2  | AUX PS         | 1   | 2322554             | MOC3062SR2VM         | 0,977           | 1   | MOC3062SM            | 1,110           |     | MOC3062SM            | 0,924           |     |
| 89  | 2   | HCPL-181               | SOIC-4                       | OK3, OK4   | Arduino Shield | 2   | 1244525             | HCPL-181-000E        | 0,342           | 1   | HCPL-181-000E        | 0,560           |     | HCPL-181-000E        | 0,150           |     |
| 90  | 1   | IRFR5305               | TO-252                       | Q1   | Power board    | 2   | 8649820             | IRFR5305PBF          | 0,994           | 1   | IRFR5305PBF-<br>ND   | 0,810           |     | 942-<br>IRFR5305PBF  | 0,805           |     |
|     |     | Option #1: SPD30P06P   | TO-252                       | Q1   | Power board    | 0   | 2480881             | SPD30P06P G          | 0,980           | 1   | SPD30P06P<br>GCT-ND  | 1,030           |     | 726-<br>SPD30P06PG   | 1,020           |     |
|     |     | Option #2: SUD19P06-60 | TO-252                       | Q1   | Power board    | 0   | 2101465             | SUD19P06-60-GE3      | 1,590           | 5   | SUD19P06-60-<br>GE3  | 0,950           |     | SUD19P06-60-<br>GE3  | 1,070           |     |
| 91  | 5   | MMBT5551               | SOT-23                       | Q12, Q13, Q16, Q18, Q19                              | Power board    | 10  | 1459109             | MMBT5551LT1G         | 0,167           | 5   | MMBT5551LT1G         | 0,180           |     | MMBT5551LT1G         | 0,163           |     |
| 92  | 1   | BSS84P                 | SOT-23                       | Q14  | Power board    | 2   | 1056526             | BSS84P H6327         | 0,110           | 5   | BSS84PH6433X<br>TMA1 | 0,180           |     | BSS84PH6433X<br>TMA1 | 0,177           |     |
| 93  | 4   | MMBT5401               | SOT-23                       | Q2, Q10, Q11, Q17                                    | Power board    | 8   | 1459108             | MMBT5401LT1G         | 0,167           | 10  | MMBT5401LT1G         | 0,180           |     | MMBT5401LT1G         | 0,163           |     |
| 94  | 2   | BTA26-600              | THT                          | Q20, Q21   | AUX PS         | 2   | 1057286             | BTA26-600BRG         | 2,840           | 1   | BTA26-600BRG         | 2,930           |     | BTA26-600BRG         | 3,110           |     |
| 95  | 1   | IRLL014N               | SOT-223                      | Q22  | AUX PS         | 1   | 8651183             | IRLL014NPBF          | 0,539           | 1   | IRLL014NTRPBF        | 0,580           |     | IRLL014NTRPBF        | 0,561           |     |
| 96  | 5   | IRLML2246TRPBF         | SOT-23                       | Q23, Q24, Q25, Q26, Q28                              | Arduino Shield | 5   | 1888166             | IRLML2246TRPBF       | 0,287           | 1   | IRLML2246TRPB<br>F   | 0,400           |     | IRLML2246TRPB<br>F   | 0,389           |     |
| 97  | 3   | 2N7002                 | SOT-23                       | Q27, Q29, Q30  | Arduino Shield | 3   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     | 2   | 2N7002                 | SOT-23                       | Q3, Q15  | Power board    | 4   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     |     |                        |                              |  |                | 7   | 1713823             | 2N7002-7-F           | 0,135           | 5   | 2N7002LT1G           | 0,130           |     | 2N7002LT1G           | 0,118           |     |
| 98  | 1   | IRFP250N               | THT, solder on bottom layer! | Q4   | Power board    | 2   | 8649260             | IRFP250NPBF          | 2,080           | 1   | IRFP250NPBF          | 1,870           |     | IRFP250NPBF          | 1,870           |     |
| 99  | 1   | BC857C                 | SOT-23                       | Q5   | Power board    | 2   | 8734771             | BC857C,215           | 0,022           | 10  | BC857CLT1G           | 0,120           |     | BC857CLT1G           | 0,109           |     |
| 100 | 2   | BCP56-16.115           | SOT-223                      | Q7, Q9   | Power board    | 4   | 1081258             | BCP56-16,115         | 0,256           | 5   | BCP56-16T1G          | 0,360           |     | BCP56-16,115         | 0,340           |     |
| 101 | 1   | IRFR5410               | TO-252                       | Q8   | Power board    | 2   | 2468040             | IRFR5410TRPBF        | 1,050           | 1   | IRFR5410PBF          | 0,850           |     | IRFR5410PBF          | 0,842           |     |
| 102 | 3   | 0R                     | 0805                         | R3, R21, R57   | Power board    | 6   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     | 4   | 0R                     | 0805                         | JP1, JP2, JP9, R73                                   | Power board    | 8   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     | 1   | 0R                     | 0805                         | R173   | AUX PS         | 1   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     | 5   | 0R                     | 0805                         | JP4, JP5, JP6, JP7, JP8                              | Arduino Shield | 5   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     |     |                        |                              |  |                | 20  | 9233750             | RC0805JR-070RL       | 0,010           | 10  | RC2012J000CS         | 0,014           |     | RC0805JR-<br>070RL   | 0,012           |     |
| 103 | 4   | 100K 1%                | 0805                         | R11, R14, R77, R79                                   | Power board    | 8   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     | 2   | 100K 1%                | 0805                         | R143, R154   | Arduino Shield | 2   |                     |                      |                 |     |                      |                 |     |                      |                 |     |
|     |     |                        |                              |  |                | 10  | 2352619             | RCV0805100KFKE<br>A  | 0,080           | 10  | RC0805FR-<br>07100KL | 0,019           |     | RC0805FR-<br>07100KL | 0,015           |     |

| RS Components |     |                          |          |                    |                      |       | TME                |                 |       | THT   SMD |    | Price calculation for 1 set |                   |           |             |
|---------------|-----|--------------------------|----------|--------------------|----------------------|-------|--------------------|-----------------|-------|-----------|----|-----------------------------|-------------------|-----------|-------------|
| #             | Qty | Part name                | Code     | Part Number        | Unit price<br>€      | MOQ   | Code / Part Number | Unit price<br>€ | MOQ   |           |    | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
| 83            | 5   | HSMH-C170                | 486-0468 | HSMH-C170          | 0,188                | 25    | HSMH-C170          | 0,057           | 10    |           | 5  | TME                         | 0,057 €           | 5         | 0,287       |
| 84            | 1   | HSMD-C170                | 486-0525 | HSMD-C170          | 0,231                | 25    | HSMD-C170          | 0,059           | 10    |           | 1  | TME                         | 0,059 €           | 1         | 0,059       |
| 85            | 4   | HSMY-C170                |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               | 1   | HSMY-C170                |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               |     |                          | 486-0519 | HSMY-C170          | 0,248                | 25    | HSMY-C170          | 0,060           | 10    |           | 6  | Mouser                      | 0,060 €           | 6         | 0,360       |
| 86            | 1   | 10K/Beta:3570K           | 697-4601 | NB12K00103JB<br>B  | 0,392                | 5     | NTCS0805E3103JMT   | 0,190           | 5     |           | 2  | Mouser                      | 0,145 €           | 2         | 0,290       |
| 87            | 1   | MOC3052                  | 761-3690 | MOC3052SM          | 0,739                | 5     | MOC3052SR2VM       | 0,380           | 2     |           | 1  | TME                         | 0,380 €           | 1         | 0,380       |
| 88            | 1   | MOC3062                  | 806-6064 | MOC3062SM          | 0,718                | 10    | MOC3062XSM         | 0,410           | 1     |           | 1  | TME                         | 0,410 €           | 1         | 0,410       |
| 89            | 2   | HCPL-181                 | 693-5277 | HCPL-181-000E      | 0,343                | 10    | HCPL-181-000E      | 0,250           | 2     |           | 2  | Mouser                      | 0,150 €           | 1         | 0,150       |
| 90            | 1   | IRFR5305                 | 543-2496 | IRFR5305PBF        | 0,994                | 1     | IRFR5305PBF        | 0,540           | 1     |           | 2  | TME                         | 0,540 €           | 2         | 1,080       |
|               |     | Option #1: SPD30P06P     | 898-6864 | SPD30P06P G        | 0,861                | 1     | SPD30P06PGBTMA1    | 0,780           | 1     |           |    |                             |                   |           |             |
|               |     | Option #2: SUD19P06-60 - |          |                    |                      |       | -                  |                 |       |           |    |                             |                   |           |             |
| 91            | 5   | MMBT5551                 | 545-0400 | MMBT5551LT1G       | 0,129                | 10    | MMBT5551           | 0,020           | 25    |           | 10 | TME                         | 0,020 €           | 25        | 0,510       |
| 92            | 1   | BSS84P                   | 653-2288 | BSS84P             | 0,157                | 10    | BSS84P             | 0,048           | 10    |           | 2  | TME                         | 0,048 €           | 2         | 0,096       |
| 93            | 4   | MMBT5401                 | 545-0393 | MMBT5401LT1G       | 0,151                | 10    | MMBT5401           | 0,021           | 25    |           | 8  | TME                         | 0,021 €           | 25        | 0,513       |
| 94            | 2   | BTA26-600                | 714-0515 | BTA26-600BRG       | 3,038                | 1     | BTA26-600BRG       | 2,540           | 1     | 2         |    | TME                         | 2,540 €           | 2         | 5,080       |
| 95            | 1   | IRLL014N                 | 302-000  | IRLL014NPBF        | 0,552                | 5     | IRLL014NPBF        | 0,214           | 3     |           | 1  | TME                         | 0,214 €           | 1         | 0,214       |
| 96            | 5   | IRLML2246TRPBF           | 760-4432 | IRLML2246TRP<br>BF | 0,322                | 5     | IRLML2246TRPBF     | 0,100           | 5     |           | 5  | TME                         | 0,100 €           | 5         | 0,500       |
| 97            | 3   | 2N7002                   |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               | 2   | 2N7002                   |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               |     |                          | 545-0012 | 2N7002LT1G         | 0,108                | 50    | 2N7002LT1G         | 0,019           | 25    |           | 7  | TME                         | 0,019 €           | 25        | 0,475       |
| 98            | 1   | IRFP250N                 | 541-0042 | IRFP250NPBF        | 2,100                | 1     | IRFP250NPBF        | 1,060           | 1     | 2         |    | TME                         | 1,060 €           | 2         | 2,120       |
| 99            | 1   | BC857C                   | 690-0105 | BC857CLT1G         | 0,102                | 25    | BC857C-DIO         | 0,020           | 25    |           | 2  | TME                         | 0,020 €           | 2         | 0,040       |
| 100           | 2   | BCP56-16.115             | 773-7633 | BCP56-16T3G        | 0,242                | 10    | BCP56-16.115       | 0,106           | 5     |           | 4  | TME                         | 0,106 €           | 4         | 0,424       |
| 101           | 1   | IRFR5410                 | 784-0303 | IRFR5410PBF        | 0,977                | 5     | IRFR5410PBF        | 0,550           | 1     |           | 2  | TME                         | 0,550 €           | 2         | 1,100       |
| 102           | 3   | 0R                       |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               | 4   | 0R                       |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               | 1   | 0R                       |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               | 5   | 0R                       |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               |     |                          |          | 679-0800           | CRCW08050000<br>Z0EA | 0,020 | 50                 | SMD0805-0R      | 0,006 | 100       |    | 20                          | TME               | 0,006 €   | 15          |
| 103           | 4   | 100K 1%                  |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               | 2   | 100K 1%                  |          |                    |                      |       |                    |                 |       |           |    |                             |                   |           |             |
|               |     |                          | 223-0691 | CRG0805F100K       | 0,007                | 50    | SMD0805-100K-1%    | 0,008           | 100   |           | 10 | RS                          | 0,007 €           | 10        | 0,070       |

**EEZ PSU H24005 BOM (r5B11, 2016-12-14)**  
Project source code at <https://github.com/eez-open>

| #   | Qty | Part name   | Package                                   | Reference designator   | Board name     | Qty | Farnell / Element14 |                    |                 |     | Digi-Key             |                 |     | Mouser                |                 |     |
|-----|-----|-------------|---|--|----------------|-----|---------------------|--------------------|-----------------|-----|----------------------|-----------------|-----|-----------------------|-----------------|-----|
|     |     |             |   |  |                |     | Code                | Part Number        | Unit price<br>€ | MOQ | Part Number          | Unit price<br>€ | MOQ | Part Number           | Unit price<br>€ | MOQ |
| 104 | 2   | 100K 0.1%   | 0805                                      | R49, R59   | Power board    | 4   | 1577686             | ERA6AEB104V        | 0,205           | 5   | RT0805BRD0710<br>0KL | 0,350           |     | CPF0805B100KE         | 0,095           |     |
| 104 | 1   | 100R 1%     | 0805                                      | R127   | AUX PS         | 1   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 1   | 100R 1%     | 0805                                      | R164   | Arduino Shield | 1   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 3   | 100R 1%     | 0805                                      | R5, R6, R43  | Power board    | 6   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     |     |             |   |  |                | 8   | 9332375             | MC01W08051100R     | 0,002           | 10  | RC0805FR-<br>07100RL | 0,019           |     | RC0805FR-<br>07100RL  | 0,015           |     |
| 106 | 2   | 10K 1%      | 0805                                      | R125, R131   | AUX PS         | 2   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 5   | 10K 1%      | 0805                                      | R147, R153, R157, R170, R172   | Arduino Shield | 5   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 16  | 10K 1%      | 0805                                      | R9, R10, R22, R23, R29, R45,<br>R52, R54, R61, R75, R76, R78,<br>R86, R98, R99, R106 | Power board    | 32  |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     |     |             |   |  |                | 39  | 9237755             | RC0805FR-0710KL    | 0,011           | 10  | RC0805FR-<br>0710KL  | 0,019           |     | RC0805FR-<br>0710KL   | 0,015           |     |
| 107 | 1   | 10R 1%      | 1206                                      | R120   | AUX PS         | 1   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 1   | 10R 1%      | 1206                                      | R151   | Arduino Shield | 1   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 4   | 10R 1%      | 1206                                      | R8, R18, R85, R174   | Power board    | 8   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     |     |             |   |  |                | 10  | 9236643             | RC1206FR-0710RL    | 0,017           | 10  | RC1206FR-<br>0710RL  | 0,029           |     | RC1206FR-<br>0710RL   | 0,022           |     |
| 108 | 1   | 12K4 1%     | 0805                                      | R152   | Arduino Shield | 1   | 2141850             | MC01W0805112K4     | 0,002           | 10  | RC0805FR-<br>0712K4L | 0,090           |     | RC0805FR-<br>0712K4L  | 0,091           |     |
| 109 | 1   | 18-22R / 7W | THT, RM 5mm, radial, max.<br>Height 40 mm | R107   | AUX PS         | 1   | 1687978             | SQM7-22RJI         | 0,474           | 1   | SQMW722RJ            | 0,590           |     | 280-PRM7-20-<br>RC    | 0,378           |     |
| 110 | 2   | 16K 1%      | 0805                                      | R118, R123   | AUX PS         | 2   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 2   | 16K 1%      | 0805                                      | R25, R36   | Power board    | 4   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     |     |             |   |  |                | 6   | 9332677             | MC01W0805116K      | 0,002           | 10  | RC0805FR-<br>0716KL  | 0,019           |     | RC0805FR-<br>0716KL   | 0,015           |     |
| 111 | 5   | 180R 1%     | 0805                                      | R30, R142, R155, R156, R158  | Arduino Shield | 5   | 2447583             | MCWR08X1800FT<br>L | 0,006           | 10  | RC0805FR-<br>07180RL | 0,019           |     | RC0805FR-<br>07180RL  | 0,015           |     |
| 112 | 1   | 1K 1%       | 0805                                      | R129   | AUX PS         | 1   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 2   | 1K 1%       | 0805                                      | R167, R168   | Arduino Shield | 2   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 5   | 1K 1%       | 0805                                      | R4, R41, R74, R82, R95   | Power board    | 10  |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     |     |             |   |  |                | 13  | 1099800             | WCR0805-1K0FI      | 0,018           | 10  | RC0805FR-<br>071KL   | 0,019           |     | RC0805FR-<br>071KL    | 0,015           |     |
| 113 | 1   | 1K8 1%      | 0805                                      | R126   | AUX PS         | 1   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 2   | 1K8 1%      | 0805                                      | R28, R56   | Power board    | 4   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     | 2   | 1K8 1%      | 0805                                      | R138, R159   | Arduino Shield | 2   |                     |                    |                 |     |                      |                 |     |                       |                 |     |
|     |     |             |   |  |                | 7   | 2447595             | MCWR08X1801FT<br>L | 0,006           | 10  | RC0805FR-<br>071K8L  | 0,019           |     | RC0805FR-<br>071K8L   | 0,015           |     |
| 114 | 4   | 1R 1%       | 0805                                      | R136, R136A, R140, R140A   | Arduino Shield | 4   | 2141629             | MC01W080511R0      | 0,002           | 10  | RC0805FR-<br>071RL   | 0,090           |     | RC0805FR-<br>071RL    | 0,091           |     |
| 115 | 2   | 22K 0.1%    | 0805                                      | R50, R60   | Power board    | 4   | 1653299             | RR1220P-223-B-T5   | 0,330           | 10  | RG20P22KBCT-<br>ND   | 0,360           | 1   | 279-<br>CPF0805B22KE1 | 0,162           | 1   |
| 116 | 10  | 220R 1%     | 0805                                      | R38, R39, R42, R48, R58, R66,<br>R80, R81, R83, R84                                  | Power board    | 20  |                     |                    |                 |     |                      |                 |     |                       |                 |     |

| 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 | THT     | SMD | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
| 104           | 2   | 100K 0.1%   | 666-2673 | CPF0805B100K E    | 0,112        | 5   | RN73C2A100KBTDF     | 0,513        | 2   |         | 4   | Mouser                      | 0,095 €           | 4         | 0,380       |
| 104           | 1   | 100R 1%     |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 1   | 100R 1%     |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 3   | 100R 1%     |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               |     |             | 679-0807 | CRCW0805100 RFKEA | 0,031        | 50  | RC0805FR-07100R     | 0,008        | 100 |         | 8   | Farnell                     | 0,002 €           | 10        | 0,020       |
| 106           | 2   | 10K 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 5   | 10K 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 16  | 10K 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               |     |             | 223-0562 | CRG0805F10K       | 0,021        | 50  | RC0805FR-0710K      | 0,008        | 100 |         | 39  | TME                         | 0,008 €           | 40        | 0,308       |
| 107           | 1   | 10R 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 1   | 10R 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 4   | 10R 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               |     |             | 740-9085 | CR1206-FX-10R0ELF | 0,028        | 50  | CRCW120610R0FKTA BC | 0,014        | 100 |         | 10  | TME                         | 0,014 €           | 10        | 0,137       |
| 108           | 1   | 12K4 1%     | 679-0863 | CRCW080512K 4FKEA | 0,008        | 50  | -                   |              |     |         | 1   | Farnell                     | 0,002 €           | 10        | 0,023       |
| 109           | 1   | 18-22R / 7W | 199-8087 | SQMW722RJ         | 0,725        | 5   | -                   |              |     | 1       |     | Mouser                      | 0,378 €           | 1         | 0,378       |
| 110           | 2   | 16K 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 2   | 16K 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               |     |             | 679-0920 | CRCW080516K 0FKEA | 0,014        | 50  | SMD0805-16K-1%      | 0,008        | 100 |         | 6   | Farnell                     | 0,002 €           | 10        | 0,020       |
| 111           | 5   | 180R 1%     | 223-0326 | CRG0805F180R      | 0,006        | 50  | SMD0805-180R-1%     | 0,008        | 100 |         | 5   | Farnell                     | 0,030 €           | 10        | 0,300       |
| 112           | 1   | 1K 1%       |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 2   | 1K 1%       |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 5   | 1K 1%       |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               |     |             | 223-0427 | CRG0805F1K0       | 0,013        | 50  | RC0805FR-071K       | 0,008        | 100 |         | 13  | TME                         | 0,008 €           | 15        | 0,116       |
| 113           | 1   | 1K8 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 2   | 1K8 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               | 2   | 1K8 1%      |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |
|               |     |             | 679-1033 | CRCW08051K8 0FKEA | 0,011        | 50  | SMD0805-1K8-1%      | 0,008        | 100 |         | 7   | Farnell                     | 0,006 €           | 10        | 0,063       |
| 114           | 4   | 1R 1%       | 721-5631 | ERJ6BQF1R0V       | 0,246        | 5   | RC0805FR-071R       | 0,009        | 100 |         | 4   | Farnell                     | 0,002 €           | 10        | 0,022       |
| 115           | 2   | 22K 0.1%    | 866-7349 | CPF-A-0805B22KE1  | 0,196        | 10  | AR05BTCW2202        | 0,107        | 10  |         | 4   | TME                         | 0,107 €           | 4         | 0,429       |
| 116           | 10  | 220R 1%     |          |                   |              |     |                     |              |     |         |     |                             |                   |           |             |

| #   | Qty | Part name    | Package | Reference designator                                  | Board name     | Qty | Farnell / Element14 |                   |                 |     | Digi-Key          |                 |     | Mouser            |                 |     |
|-----|-----|--------------|---------|---|----------------|-----|---------------------|-------------------|-----------------|-----|-------------------|-----------------|-----|-------------------|-----------------|-----|
|     |     |              |         |   |                |     | Code                | Part Number       | Unit price<br>€ | MOQ | Part Number       | Unit price<br>€ | MOQ | Part Number       | Unit price<br>€ | MOQ |
| 117 | 2   | 220R 1%      | 0805    | R114, R117  | AUX PS         | 2   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                | 22  | 1099795             | WCR0805-220RFI    | 0,024           | 10  | RC0805FR-07220RL  | 0,019           |     | RC0805FR-07220RL  | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 5   | 2K2 1%       | 0805    | R110, R111, R119, R122, R124                          | AUX PS         | 5   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 11  | 2K2 1%       | 0805    | R17, R32, R34, R35, R37, R46, R62, R65, R68, R94, R96 | Power board    | 22  |                     |                   |                 |     |                   |                 |     |                   |                 |     |
| 118 |     |              |         |   |                | 27  | 9237534             | RC0805FR-072K2L   | 0,011           | 10  | RC0805FR-072K2L   | 0,019           |     | RC0805FR-072K2L   | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 2   | 2K55 0.1%    | 0805    | R64, R72  | Power board    | 4   | 1575837             | MCTC0525B2551T 5E | 0,483           | 10  | P2.55KDACT-ND     | 0,570           | 1   | 667-ERA-6AEB2551V | 0,570           | 1   |
|     | 1   | 2R2 5% / 2W  | 2512    | R31   | Power board    | 2   | 1376975             | RC2512JK-7W2R2L   | 0,557           | 10  | CRM2512-JW-2R2ELF | 0,320           |     | CRM2512-JW-2R2ELF | 0,341           |     |
|     | 1   | 330K 1%      | 0805    | R12   | Power board    | 2   | 9333070             | MC01W08051330K    | 0,002           | 10  | RC0805FR-07330KL  | 0,090           |     | RC0805FR-07330KL  | 0,091           |     |
| 121 | 2   | 330R 1%      | 0805    | R87, R105   | Power board    | 4   | 9333037             | MC01W08051330R    | 0,002           | 10  | RC0805FR-07330RL  | 0,090           |     | RC0805FR-07330RL  | 0,091           |     |
| 122 | 4   | 330R 5% / 2W | 2512    | R108, R109, R112, R115                                | AUX PS         | 4   | 1265196             | 3520330RJT        | 0,122           | 10  | RHC2512FT330R     | 0,760           |     | 3521330RFT        | 0,580           |     |
| 123 | 3   | 470R 1%      | 0805    | R20, R40, R53   | Power board    | 6   | 1099798             | WCR0805-470RFI    | 0,024           | 10  | RC0805FR-07470RL  | 0,019           |     | RC0805FR-07470RL  | 0,015           |     |
| 124 | 1   | 47K 1%       | 0805    | R128  | AUX PS         | 1   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 2   | 47K 1%       | 0805    | R162, R163  | Arduino Shield | 2   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 7   | 47K 1%       | 0805    | R7, R16, R19, R89, R90, R91, R103                     | Power board    | 14  |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                | 17  | 2447664             | MCWR08X4702FT L   | 0,006           | 10  | RC0805FR-0747KL   | 0,019           |     | RC0805FR-0747KL   | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
| 125 | 4   | 49R9 1%      | 0805    | R146, R148, R149, R150                                | Arduino Shield | 4   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 2   | 49R9 1%      | 0805    | R113, R116  | AUX PS         | 2   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                | 6   | 2141727             | MC01W0805149R9    | 0,002           | 10  | RC0805FR-0749R9L  | 0,019           |     | RC0805FR-0749R9L  | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
| 126 | 9   | 4K7 1%       | 0805    | R134, R135, R137, R139, R141, R144, R145, R169, R171  | Arduino Shield | 9   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 2   | 4K7 1%       | 0805    | R15, R102   | Power board    | 4   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                | 13  | 9333266             | MC01W080514K7     | 0,002           | 10  | RC0805FR-074K7L   | 0,019           |     | RC0805FR-074K7L   | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
| 127 | 2   | 51K 1%       | 0805    | R24, R51  | Power board    | 4   | 9334653             | MC01W0805551K     | 0,015           | 10  | RC0805FR-0751KL   | 0,019           |     | RC0805FR-0751KL   | 0,015           |     |
| 128 | 2   | 102R 0.1%    | 0805    | R67, R71  | Power board    | 4   | 1575575             | MCTC0525B1020T 5E | 0,447           | 10  | 985-1391-1-ND     | 0,800           | 1   | 667-ERA-6AEB1020V | 0,570           | 1   |
| 129 | 4   | 5K1 1%       | 0805    | R27, R70, R88, R101                                   | Power board    | 8   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 2   | 5K1 1%       | 0805    | R165, R166  | Arduino Shield | 2   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                | 10  | 9333320             | MC01W080515K1     | 0,002           | 10  | RC0805FR-075K1L   | 0,019           |     | RC0805FR-075K1L   | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
| 130 | 2   | 5K6 1%       | 0805    | R121, R130  | AUX PS         | 2   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     | 4   | 5K6 1%       | 0805    | R26, R92, R97, R104                                   | Power board    | 8   |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                | 10  | 2447693             | MCWR08X5601FT L   | 0,006           | 10  | RC0805FR-075K6L   | 0,019           |     | RC0805FR-075K6L   | 0,015           |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |
|     |     |              |         |   |                |     |                     |                   |                 |     |                   |                 |     |                   |                 |     |

| RS Components |     |              |          |                       |                 |     | TME                |                 |     |     |     | Price calculation for 1 set |                      |              |             |
|---------------|-----|--------------|----------|-----------------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|----------------------|--------------|-------------|
| #             | Qty | Part name    | Code     | Part Number           | Unit price<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ | THT | SMD | Best<br>Supplier            | Best Line<br>Price € | Order<br>Qty | Line Cost € |
| 117           | 2   | 220R 1%      | 223-0332 | CRG0805F220R          | 0,024           | 50  | RC0805FR-07220R    | 0,007           | 100 | 22  |     | TME                         | 0,007 €              | 20           | 0,143       |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 5   | 2K2 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 11  | 2K2 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              | 679-1207 | CRCW08052K2<br>0FKEA  | 0,027           | 50  | SMD0805-2K2-1%     | 0,008           | 100 | 27  |     | TME                         | 0,008 €              | 30           | 0,242       |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
| 118           | 2   | 2K55 0.1%    | 708-6240 | ERA6AEB2551V          | 0,040           | 5   | -                  |                 |     | 4   |     | RS                          | 0,040 €              | 5            | 0,200       |
| 119           | 1   | 2R2 5% / 2W  | 720-3231 | CRM2512-JW-<br>2R2ELF | 0,406           | 5   | WF25P-2R2-5%       | 0,042           | 50  | 2   |     | TME                         | 0,042 €              | 2            | 0,084       |
| 120           | 1   | 330K 1%      | 679-1272 | CRCW0805330<br>KFKEA  | 0,024           | 50  | RC0805FR-07330K    | 0,007           | 100 | 2   |     | Farnell                     | 0,002 €              | 10           | 0,020       |
| 121           | 2   | 330R 1%      | 740-9022 | CR0805-FX-<br>3300GLF | 0,025           | 50  | RC0805FR-07330R    | 0,007           | 100 | 4   |     | Farnell                     | 0,002 €              | 10           | 0,020       |
| 122           | 4   | 330R 5% / 2W | 755-1224 | 3521330RFT            | 0,182           | 10  | WF25P-330R-5%      | 0,042           | 50  | 4   |     | TME                         | 0,042 €              | 10           | 0,419       |
| 123           | 3   | 470R 1%      | 223-0376 | CRG0805F470R          | 0,024           | 50  | RC0805FR-07470R    | 0,007           | 100 | 6   |     | TME                         | 0,007 €              | 10           | 0,073       |
| 124           | 1   | 47K 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 2   | 47K 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 7   | 47K 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              | 679-1434 | CRCW080547K<br>0FKEA  | 0,010           | 50  | RC0805FR-0747K     | 0,007           | 100 | 17  |     | Farnell                     | 0,006 €              | 20           | 0,126       |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
| 125           | 4   | 49R9 1%      |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 2   | 49R9 1%      |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              | 679-1462 | CRCW080549R<br>9FKEA  | 0,011           | 50  | RC0805FR-0749R9    | 0,007           | 100 | 6   |     | Farnell                     | 0,002 €              | 10           | 0,020       |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
| 126           | 9   | 4K7 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 2   | 4K7 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              | 223-0528 | CRG0805F4K7           | 0,011           | 50  | RC0805FR-074K7     | 0,008           | 100 | 13  |     | Farnell                     | 0,002 €              | 20           | 0,040       |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
| 127           | 2   | 51K 1%       | 679-1525 | CRCW080551K<br>0FKEA  | 0,020           | 50  | RC0805FR-0751K     | 0,006           | 100 | 4   |     | TME                         | 0,006 €              | 10           | 0,061       |
| 128           | 2   | 102R 0.1%    | 708-9271 | ERA6AEB1020V          | 0,210           | 5   | -                  |                 |     | 4   |     | RS                          | 0,210 €              | 10           | 2,100       |
| 129           | 4   | 5K1 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 2   | 5K1 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              | 679-1569 | CRCW08055K1<br>0FKEA  | 0,027           | 50  | RC0805FR-075K1     | 0,007           | 100 | 10  |     | Farnell                     | 0,002 €              | 10           | 0,021       |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
| 130           | 2   | 5K6 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 4   | 5K6 1%       |          |                       |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |     |              | 679-1572 | CRCW08055K6<br>0FKEA  | 0,021           | 50  | SMD0805-5K6-1%     | 0,008           | 100 | 10  |     | Farnell                     | 0,006 €              | 10           | 0,063       |

**EEZ PSU H24005 BOM (r5B11, 2016-12-14)**  
Project source code at <https://github.com/eez-open>

| #   | Qty | Part name         | Package                      | Reference designator                             | Board name     | Qty | Farnell / Element14 |                    |                 |     | Digi-Key           |                 |     | Mouser             |                 |     |
|-----|-----|-------------------|------------------------------|--|----------------|-----|---------------------|--------------------|-----------------|-----|--------------------|-----------------|-----|--------------------|-----------------|-----|
|     |     |                   |                              |  |                |     | Code                | Part Number        | Unit price<br>€ | MOQ | Part Number        | Unit price<br>€ | MOQ | Part Number        | Unit price<br>€ | MOQ |
| 131 | 3   | 750R 1%           | 0805                         | R47, R93, R100                                   | Power board    | 6   |                     |                    |                 |     |                    |                 |     |                    |                 |     |
|     | 2   | 750R 1%           | 0805                         | R160, R161                                       | Arduino Shield | 2   |                     |                    |                 |     |                    |                 |     |                    |                 |     |
|     |     |                   |                              |  |                | 8   | 9333525             | MC01W08051750R     | 0,002           | 10  | RC0805FR-07750RL   | 0,019           |     | RC0805FR-07750RL   | 0,015           |     |
| 132 | 2   | 7K5 0.1%          | 0805                         | R44, R55   | Power board    | 4   | 1670239             | ERA6AEB752V        | 0,312           | 10  | RT0805BRD077K5L    | 0,350           |     | RT0805BRD077K5L    | 0,357           |     |
|     | 1   | R010 1% / 2W      | 2512, 2W                     | R2   | Power board    | 2   | 1435947             | CRA2512-FZ-R010ELF | 0,484           | 10  | CRA2512-FZ-R010ELF | 0,540           |     | CRA2512-FZ-R010ELF | 0,568           |     |
| 134 | 1   | R020 1% / 2W      | 2512, 2W                     | R69  | Power board    | 2   | 2079436             | LRMAM2512-R02FT4   | 0,250           | 10  | CRA2512-FZ-R020ELF | 0,540           |     | CRA2512-FZ-R020ELF | 0,568           |     |
| 135 | 2   | 4x10K 5%          | 1206; resistor array         | RN1, RN2   | Arduino Shield | 2   | 1770137             | CAY16-103J4LF      | 0,110           | 10  | CAY16-103J4LF      | 0,090           |     | CAY16-103J4LF      | 0,095           |     |
| 136 | 1   | LD-BZEN-0903      | THT                          | SP1 Buzzer                                       | Arduino Shield | 1   | -                   |                    |                 |     | -                  |                 |     | TE092703-6         | 2,200           |     |
| 137 | 1   | A101SYCQ04        | THT                          | SW1  | Arduino Shield | 1   | 2292959             | A101SYCQ04         | 2,760           | 1   | A101SYCQ04         | 3,000           |     | A101SYCQ04         | 2,640           |     |
| 138 | 1   | 1301.9316         | SMD; tactile switch          | SW2  | Arduino Shield | 1   | 1217765             | 1301.9316          | 0,302           | 1   | FSM6JSMA           | 0,210           |     | 1301.9316          | 0,270           |     |
| 139 | 1   | 820uH Dual Coil   | SMD; 7.6mm x 7.6mm           | TR1  | Power board    | 2   | 1852832             | SRF0703-821M       | 0,893           | 1   | SRF0703-821M       | 0,720           |     | SRF0703-821M       | 0,758           |     |
| 140 | 1   | VTX-214-005-112   | THT                          | TR2  | AUX PS         | 1   | 2401044             | VTX-214-005-112    | 8,120           | 1   | -                  |                 |     | -                  |                 |     |
| 141 | 1   | 39-30-3035        | THT 4,2mm 3pin               | X1   | Power board    | 2   | 9963545             | 39303035           | 0,914           | 1   | 39-30-3035         | 0,800           |     | 39-30-3035         | 0,603           |     |
| 142 | 1   | 2411-01           | THT, solder on bottom layer! | X11 USB Connector                                | AUX PS         | 1   | 1177884             | 2411-01            | 1,050           | 1   | 952-1767-ND        | 0,730           |     | 710-61400413321    | 1,200           |     |
| 143 | 2   | MC000006          | THT, solder on bottom layer! | X12, X14 Front Treminal                          | Arduino Shield | 2   | 2007972             | MC000006           | 1,900           | 1   | -                  |                 |     | -                  |                 |     |
| 144 | 2   | TSW-113-07-F-D    | THT; 2x13-pin header         | X13, X15   | Arduino Shield | 2   | 2025182             | TSW-113-07-F-D     | 2,240           | 5   | TSW-113-07-L-D     | 2,470           |     | 710-61302621121    | 1,410           |     |
| 145 | 1   | 22-23-2021        | THT                          | X17 Optional TEMP                                | Arduino Shield | 1   | 1462926             | 22-23-2021         | 0,100           | 1   | 22-23-2021         | 0,140           |     | 22-23-2021         | 0,141           |     |
| 146 | 1   | MC34753           | THT                          | X18  | Arduino Shield | 1   | 1593431             | MC34753            | 0,422           | 10  | M20-9750846        | 0,230           |     | 710-61300811021    | 0,670           |     |
| 147 | 1   | 22-23-2041        | THT                          | X19 Optional Encoder                             | Arduino Shield | 1   | 1462920             | 22-23-2041         | 0,165           | 10  | 22-23-2041         | 0,240           |     | 22-23-2041         | 0,217           |     |
| 148 | 1   | SSW-113-02-T-D-RA | THT; 2x13-pin socket         | X3   | Power board    | 2   | 1805583             | SSW-113-02-G-D-RA  | 5,700           | 2   | SSW-113-02-G-D-RA  | 5,340           |     | -                  |                 |     |
| 149 | 1   | 39-30-3055        | THT 4,2mm 5pin               | X4 AC In   | AUX PS         | 1   | 9963561             | 39303055           | 0,530           | 1   | 39-30-3055         | 1,180           |     | 39-30-3055         | 0,923           |     |
|     | 1   | 09185107324       | THT; 2x5-pin header          | X5   | AUX PS         | 1   |                     |                    |                 |     |                    |                 |     |                    |                 |     |
|     | 1   | 09185107324       | THT; 2x5-pin header          | X16  | Arduino Shield | 1   |                     |                    |                 |     |                    |                 |     |                    |                 |     |
|     |     |                   |                              |  |                | 2   | 1096985             | 09 18 510 7324     | 1,220           | 1   | 09185107324        | 1,460           |     | 09185107324        | 1,460           |     |
| 150 | 1   | 22-23-2031        | THT                          | X6 FAN Connector                                 | AUX PS         | 1   | 1462950             | 22-23-2031         | 0,081           | 1   | 22-23-2031         | 0,210           |     | 22-23-2031         | 0,198           |     |
| 151 | 1   | LMJ2138814S0L1T1C | THT, solder on bottom layer! | X7 RJ45 Connector                                | AUX PS         | 1   | -                   |                    |                 |     | -                  |                 |     | -                  |                 |     |
| 152 | 1   | 826629-8          | THT 8-Pin Header             | X8   | AUX PS         | 1   |                     |                    |                 |     |                    |                 |     |                    |                 |     |
|     | 6   | 826629-8          | THT 8-Pin Header             | MCU-ADCL, MCU-ADCH, MCU-COMM, MCU-PWML, MCU-PWMH | Arduino Shield | 6   |                     |                    |                 |     |                    |                 |     |                    |                 |     |
|     |     |                   |                              |  |                | 7   | 1022256             | M20-9990845        | 0,117           | 10  | M20-9990845        | 0,240           |     | M20-9990845        | 0,317           |     |
| 153 | 1   | 826629-5          | THT 5-Pin Header             | X9   | AUX PS         | 1   | 2452473             | 826629-5           | 0,631           | 50  | 826629-5           | 0,660           |     | M20-9990545        | 0,217           |     |
| 154 | 1   | 32,768kHz         | THT                          | Y1   | Arduino Shield | 1   | 1611828             | AB38T-32.768KHZ    | 0,185           | 1   | AB38T-32.768KHZ    | 0,150           |     | AB38T-32.768KHZ    | 0,155           |     |

| RS Components |     |                   |          |                    |                 |     | TME                 |                 |     | THT   SMD |         | Price calculation for 1 set |                   |           |             |
|---------------|-----|-------------------|----------|--------------------|-----------------|-----|---------------------|-----------------|-----|-----------|---------|-----------------------------|-------------------|-----------|-------------|
| #             | Qty | Part name         | Code     | Part Number        | Unit price<br>€ | MOQ | Code / Part Number  | Unit price<br>€ | MOQ |           |         | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
| 131           | 3   | 750R 1%           |          |                    |                 |     |                     |                 |     |           |         |                             |                   |           |             |
|               | 2   | 750R 1%           |          |                    |                 |     |                     |                 |     |           |         |                             |                   |           |             |
|               |     |                   | 679-1660 | CRCW0805750 RFKEA  | 0,010           | 50  | CRCW0805750RFKTA BC | 0,012           | 100 | 8         | Farnell | 0,002 €                     | 20                | 0,040     |             |
| 132           | 2   | 7K5 0.1%          | 666-2588 | CPF0805B7K5E       | 0,280           | 5   | RN73C2A7K5BTDF      | 0,520           | 2   | 4         | RS      | 0,280 €                     | 5                 | 1,400     |             |
| 133           | 1   | R010 1% / 2W      | 693-4381 | CRA2512-FZ-R010ELF | 0,515           | 5   | VW25RR010FTL        | 0,189           | 5   | 2         | TME     | 0,189 €                     | 5                 | 0,945     |             |
| 134           | 1   | R020 1% / 2W      | 693-4384 | CRA2512-FZ-R020ELF | 0,507           | 5   | VW25NR020FTL        | 0,189           | 5   | 2         | TME     | 0,189 €                     | 5                 | 0,945     |             |
| 135           | 2   | 4x10K 5%          | 522-5585 | CAY16-103J4LF      | 0,020           | 50  | DR1206-10K-4/8      | 0,007           | 100 | 2         | TME     | 0,007 €                     | 2                 | 0,013     |             |
| 136           | 1   | LD-BZEN-0903      | -        |                    |                 |     | LD-BZEN-0903        | 0,504           | 3   | 1         | TME     | 0,504 €                     | 3                 | 1,512     |             |
| 137           | 1   | A101SYCQ04        | 710-9788 | A101SYCQ04         | 2,576           | 1   | -                   |                 |     | 1         | RS      | 2,576 €                     | 1                 | 2,576     |             |
| 138           | 1   | 1301.9316         | 718-2443 | FSM6JSMATR         | 0,818           | 5   | 1301.9316           | 0,220           | 5   | 1         | Digikey | 0,210 €                     | 1                 | 0,210     |             |
| 139           | 1   | 820uH Dual Coil   | -        |                    |                 |     | -                   |                 |     | 2         | Digikey | 0,720 €                     | 2                 | 1,440     |             |
| 140           | 1   | VTX-214-005-112   | 792-4372 | Myrra 47154        | 10,140          | 1   | -                   |                 |     | 1         | Farnell | 8,120 €                     | 1                 | 8,120     |             |
| 141           | 1   | 39-30-3035        | 670-5849 | 39-30-3035         | 0,969           | 5   | MX-5569-03A4        | 0,476           | 1   | 2         | TME     | 0,476 €                     | 2                 | 0,952     |             |
| 142           | 1   | 2411-01           | -        |                    |                 |     | 2411-01             | 0,660           | 1   | 1         | TME     | 0,660 €                     | 1                 | 0,660     |             |
| 143           | 2   | MC000006          | -        |                    |                 |     | -                   |                 |     | 1         | Farnell | 1,900 €                     | 1                 | 1,900     |             |
| 144           | 2   | TSW-113-07-F-D    | -        |                    |                 |     | -                   |                 |     | 2         | Mouser  | 1,410 €                     | 2                 | 2,820     |             |
| 145           | 1   | 22-23-2021        | 679-5583 | 22-23-2021         | 0,087           | 10  | MX-22-23-2021       | 0,070           | 10  | 1         | TME     | 0,070 €                     | 1                 | 0,070     |             |
| 146           | 1   | MC34753           | 828-1673 | 61300811021        | 0,759           | 5   |                     |                 |     | 1         | Digikey | 0,230 €                     | 1                 | 0,230     |             |
| 147           | 1   | 22-23-2041        | 679-5596 | 22-23-2041         | 0,197           | 10  | MX-22-23-2041       | 0,106           | 5   | 1         | TME     | 0,106 €                     | 1                 | 0,106     |             |
| 148           | 1   | SSW-113-02-T-D-RA | -        |                    |                 |     | ZL263-26DG          | 0,399           | 2   | 2         | TME     | 0,399 €                     | 2                 | 0,798     |             |
| 149           | 1   | 39-30-3055        | 670-5861 | 39-30-3055         | 0,563           | 5   | -                   |                 |     | 1         | Farnell | 0,530 €                     | 1                 | 0,530     |             |
|               | 1   | 09185107324       |          |                    |                 |     |                     |                 |     |           |         |                             |                   |           |             |
|               | 1   | 09185107324       |          |                    |                 |     |                     |                 |     |           |         |                             |                   |           |             |
|               |     |                   | 740-7108 | 09185107324        | 1,442           | 1   | T821-1-10-S1        | 0,290           | 2   | 2         | TME     | 0,290 €                     | 2                 | 0,580     |             |
| 150           | 1   | 22-23-2031        | 679-5587 | 22-23-2031         | 0,083           | 10  | MX-22-23-2031       | 0,080           | 10  | 1         | TME     | 0,080 €                     | 1                 | 0,080     |             |
| 151           | 1   | LMJ2138814S0L1T1C | -        |                    |                 |     | RJ45-TRAFO-LP       | 2,820           | 1   | 1         | TME     | 2,820 €                     | 1                 | 2,820     |             |
| 152           | 1   | 826629-8          |          |                    |                 |     |                     |                 |     |           |         |                             |                   |           |             |
|               | 6   | 826629-8          |          |                    |                 |     |                     |                 |     |           |         |                             |                   |           |             |
|               |     |                   | 681-2997 | M20-9990845        | 0,125           | 10  | ZL201-08G           | 0,065           | 10  | 7         | TME     | 0,065 €                     | 10                | 0,649     |             |
| 153           | 1   | 826629-5          | 681-2981 | M20-9990545        | 0,160           | 10  | ZL201-05G           | 0,032           | 25  | 1         | TME     | 0,032 €                     | 1                 | 0,032     |             |
| 154           | 1   | 32,768kHz         | 226-1443 | LFXTAL002995       | 0,532           | 1   | 32.768K-TC38        | 0,144           | 5   | 1         | TME     | 0,144 €                     | 1                 | 0,144     |             |



| #                                   | Qty            | Part name                           | Package             | Reference designator        | Board name     | Qty | Farnell / Element14 |                       |                 |     | Digi-Key              |                 |     | Mouser          |                 |     |
|-------------------------------------|----------------|-------------------------------------|---------------------|-----------------------------|----------------|-----|---------------------|-----------------------|-----------------|-----|-----------------------|-----------------|-----|-----------------|-----------------|-----|
|                                     |                |                                     |                     |                             |                |     | Code                | Part Number           | Unit price<br>€ | MOQ | Part Number           | Unit price<br>€ | MOQ | Part Number     | Unit price<br>€ | MOQ |
| 155                                 | 1              | 25MHz                               | SMD, 11.5mm x 4.7mm | Y2                          | Arduino Shield | 1   | 2467741             | ABLS-25.000MHZ-B4-F-T | 0,393           | 1   | ABLS-25.000MHZ-B4-F-T | 0,240           |     | ABLS-25.0M-F-T  | 0,260           |     |
| 156                                 | 3              | SMAJ18A                             | DO-214AC            | ZD4, ZD10, ZD11             | Arduino Shield | 3   | 1749305             | SMAJ18A-TR            | 0,070           | 10  | SMA6J18A-TR           | 0,340           |     | SMA6J18A-TR     | 0,407           |     |
| 157                                 | 1              | BZX384-C4V3                         | SOD-323             | ZD12                        | Arduino Shield | 1   | 8735697             | BZX384-C4V3           | 0,182           | 5   | MM3Z4V3T1G            | 0,130           |     | BZX384-C4V3,115 | 0,110           |     |
| 158                                 | 1              | BZX384-C15.115                      | SOD-323             | ZD4                         | Power board    | 2   | 8735506             | BZX384-C15            | 0,182           | 5   | MM3Z15VT1G            | 0,130           |     | MM3Z15VT1G      | 0,118           |     |
| 159                                 | 1              | PDZ6.2B                             | SOD-323             | ZD5                         | Power board    | 2   | 1757863             | PDZ6.2B,115           | 0,266           | 5   | MM3Z6V2T1G            | 0,130           |     | MM3Z6V2T1G      | 0,118           |     |
| 160                                 | 2              | P4SMAJ48A                           | DO-214AC            | ZD8, ZD9                    | Arduino Shield | 2   | 1749310             | SMAJ48A-TR            | 0,264           | 1   | SMAJ48A-TR            | 0,340           |     | SMAJ48A-TR      | 0,340           |     |
| <b>AUX PS 230 V protection</b>      |                |                                     |                     |                             |                |     |                     |                       |                 |     |                       |                 |     |                 |                 |     |
| 161                                 | 1              | CG2-470L                            | THT                 | SAR1                        | AUX PS         | 1   | 1846854             | 2027-47-BLF           | 1,850           | 1   | 2027-47-BLF           | 1,270           |     | 2027-47-BLF     | 1,340           |     |
| 162                                 | 2              | S20K250                             | THT                 | VAR1, VAR2                  | AUX PS         | 2   | 1004357             | B72220S0251K101       | 0,650           | 1   | B72220S0251K101       | 0,850           |     | B72220S0251K101 | 0,936           |     |
|                                     | 2              | 1.5KE400CA                          | THT                 | ZD6, ZD7                    | AUX PS         | 2   | 2341650             | 1.5KE400CARL          | 0,777           | 1   | 1.5KE400CA-TP         | 0,560           |     | 1.5KE400CA-TP   | 0,549           |     |
| <b>Not installed</b>                |                |                                     |                     |                             |                |     |                     |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | 1u             | 1206                                |                     | C14                         | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | 100n           | 0805                                |                     | C15, C19                    | Power board    | 4   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | n.c.           | 0805                                |                     | C158                        | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | n.c.           | 0805                                |                     | C160                        | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 4                                   | 1n             | 0805                                |                     | C200, C201, C202, C203      | Power board    | 8   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | n.c.           | 0805                                |                     | C39                         | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | 2m2            | THT, Ø18mm, solder on bottom layer! |                     | C4, C5                      | Power board    | 4   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | n.c.           | 0805                                |                     | C96                         | AUX PS         | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 5                                   | 100n           | 0603                                |                     | C99, C100, C101, C102, C103 | AUX PS         | 5   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 4                                   | STPS15H100     | TO-252                              |                     | D1, D2, D3, D4              | Power board    | 8   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | 60R@100MHz     | 0603                                |                     | FB5, FB6                    | AUX PS         | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | S1751-46R      | 0805                                |                     | GND, SW                     | Power board    | 4   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | TPD4E002DRLR   |                                     |                     | IC17                        | AUX PS         | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | TPD2E001DZDR   |                                     |                     | IC18                        | AUX PS         | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | ADUM3160BRWZ   |                                     |                     | IC19                        | AUX PS         | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | 901210762      | THT                                 |                     | JP3                         | Arduino Shield | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | 12K            | 1208                                |                     | R1                          | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | n.c.           | 0805                                |                     | R13, R175                   | Power board    | 4   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | n.c.           | 0805                                |                     | R33                         | Arduino board  | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | 22R            | 0805                                |                     | R132, R133                  | AUX PS         | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | n.c.           | 1206                                |                     | R63                         | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | 826629-5       | THT                                 |                     | X10                         | AUX PS         | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | 282836-2       | THT                                 |                     | X2                          | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | SSW-105-02-S-D | THT                                 |                     | X20                         | Arduino Shield | 1   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | n.c.           |                                     |                     | ZD1, ZD2                    | Power board    | 4   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| 1                                   | See Note 3.2   |                                     |                     | ZD3                         | Power board    | 2   | -                   |                       |                 |     |                       |                 |     |                 |                 |     |
| <b>Power module AC input option</b> |                |                                     |                     |                             |                |     |                     |                       |                 |     |                       |                 |     |                 |                 |     |
| 2                                   | 2200uF 63V     | THT, solder on bottom layer!        |                     | C4, C5                      | Power board    | 4   | 1822562             | UVR1J222MHD           | 2,540           | 1   | UVR1H222MHD           | 1,680           |     | UVR1H222MHD     | 1,710           |     |

| RS Components |     |                |          |                    |                 |     | TME                |                 |     |   |         | Price calculation for 1 set |                   |           |             |
|---------------|-----|----------------|----------|--------------------|-----------------|-----|--------------------|-----------------|-----|---|---------|-----------------------------|-------------------|-----------|-------------|
| #             | Qty | Part name      | Code     | Part Number        | Unit price<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ |   |         | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
| 155           | 1   | 25MHz          | 814-9550 | QCS25.0000F18 B23R | 0,217           | 10  | 25.00M-SMDHC49S    | 0,373           | 2   | 1 | RS      | 0,217 €                     | 1                 | 0,217     |             |
| 156           | 3   | SMAJ18A        | 795-9268 | SMA6J18A-TR        | 0,112           | 25  | P4SMAJ18A-DIO      | 0,105           | 5   | 3 | Farnell | 0,070 €                     | 5                 | 0,350     |             |
| 157           | 1   | BZX384-C4V3    | 508-696  | BZX384-C4V3        | 0,013           | 100 | BZT52C4V3-DIO      | 0,019           | 25  | 1 | RS      | 0,013 €                     | 1                 | 0,013     |             |
| 158           | 1   | BZX384-C15.115 | 802-4568 | MM3Z15VST1G        | 0,013           | 200 | BZX384-C15.115     | 0,019           | 25  | 2 | RS      | 0,013 €                     | 2                 | 0,026     |             |
| 159           | 1   | PDZ6.2B        | 725-8247 | PDZ6.2B,115        | 0,014           | 100 | PDZ6.2B            | 0,019           | 25  | 2 | RS      | 0,014 €                     | 2                 | 0,028     |             |
| 160           | 2   | P4SMAJ48A      | 687-3286 | SMAJ48A            | 0,098           | 25  | P4SMAJ48A-DIO      | 0,102           | 5   | 2 | RS      | 0,098 €                     | 2                 | 0,196     |             |
|               |     |                |          |                    |                 |     |                    |                 | 75  |   |         |                             |                   |           | 181,20 €    |

| AUX PS 230 V protection |   |            |          |                 |       |    |              |       |   |   |         |         |   |       |
|-------------------------|---|------------|----------|-----------------|-------|----|--------------|-------|---|---|---------|---------|---|-------|
| 161                     | 1 | CG2-470L   | 878-3652 | CG2-470L        | 2,279 | 10 | CG2-470L     | 1,450 | 1 | 1 | Digikey | 1,270 € | 1 | 1,270 |
|                         | 2 | S20K250    | 289-7301 | B72220S0251K101 | 0,745 | 5  | SIOV-S20K250 | 0,524 | 1 | 2 | TME     | 0,524 € | 2 | 1,048 |
| 162                     |   |            |          |                 |       |    |              |       |   |   |         |         |   |       |
| 163                     | 2 | 1.5KE400CA | 486-4381 | 1.5KE400CA      | 0,781 | 5  | 1.5KE400CA   | 0,256 | 3 | 2 | TME     | 0,256 € | 3 | 0,768 |
|                         |   |            |          |                 |       |    |              |       |   | 3 | 49      | 695     |   |       |

| Not installed |                |   |  |   |  |
|---------------|----------------|---|--|---|--|
| 1             | 1u             | - |  | 2 |  |
| 2             | 100n           | - |  | 4 |  |
| 1             | n.c.           |   |  | 2 |  |
| 1             | n.c.           |   |  |   |  |
| 4             | 1n             |   |  | 8 |  |
| 1             | n.c.           | - |  | 2 |  |
| 2             | 2m2            | - |  | 4 |  |
|               |                |   |  |   |  |
| 1             | n.c.           |   |  |   |  |
| 5             | 100n           | - |  | 5 |  |
|               |                |   |  |   |  |
| 4             | STPS15H100     | - |  | 8 |  |
| 2             | 60R@100MHz     | - |  | 2 |  |
| 2             | S1751-46R      |   |  | 4 |  |
| 1             | TPD4E002DRLR   | - |  | 1 |  |
| 1             | TPD2E001DZDR   | - |  | 1 |  |
| 1             | ADUM3160BRWZ   | - |  | 1 |  |
| 1             | 901210762      | - |  | 1 |  |
| 1             | 12K            | - |  | 2 |  |
| 2             | n.c.           | - |  | 4 |  |
| 1             | n.c.           |   |  | 1 |  |
| 2             | 22R            | - |  | 2 |  |
| 1             | n.c.           | - |  | 2 |  |
| 1             | 826629-5       | - |  | 1 |  |
| 1             | 282836-2       | - |  | 2 |  |
| 1             | SSW-105-02-S-D |   |  | 1 |  |
| 2             | n.c.           | - |  | 4 |  |
| 1             | See Note 3.2   | - |  | 2 |  |

| Power module AC input ( |            |          |             |       |   |             |       |   |  |  |  |  |
|-------------------------|------------|----------|-------------|-------|---|-------------|-------|---|--|--|--|--|
| 2                       | 2200uF 63V | 862-3229 | UVR1H222MHD | 2,156 | 1 | UVR1H222MHD | 1,100 | 1 |  |  |  |  |

| #                       | Qty  | Part name  | Package                             | Reference designator                                      | Board name     | Qty | Farnell / Element14 |                 |                 |     | Digi-Key        |                 |     | Mouser          |                 |     |
|-------------------------|--|--|-------------------------------------|---|----------------|-----|---------------------|-----------------|-----------------|-----|-----------------|-----------------|-----|-----------------|-----------------|-----|
|                         |  |  |                                     |   |                |     | Code                | Part Number     | Unit price<br>€ | MOQ | Part Number     | Unit price<br>€ | MOQ | Part Number     | Unit price<br>€ | MOQ |
|                         |  | Option #1:<br>UVZ1H222MHD  | THT, <b>solder on bottom layer!</b> | C4, C5  | Power board    | 0   | 1822570             | UVZ1H222MHD     | 2,420           | 1   | UVZ1H222MHD     | 1,500           |     | UVZ1H222MHD     | 1,690           |     |
|                         |  | Option #2:<br>UVZ1J222MHD  | THT, <b>solder on bottom layer!</b> | C4, C5  | Power board    | 0   | 1822575             | UVZ1J222MHD     | 2,420           | 1   | UVZ1J222MHD     | 2,210           |     | UVZ1J222MHD     | 2,780           |     |
| 4                       |  | STPS15H100   | TO-252                              | D1, D2, D3, D4  | Power board    | 8   | 2344052             | STPS15H100CB-TR | 1,070           | 1   | STPS15H100CB    | 0,900           |     | STPS15H100CB    | 0,896           |     |
| 1                       | 12K 1%                                       | 1206   |                                     | R1  | Power board    | 2   | 1100220             | WCR1206-12KFI   | 0,026           | 10  | RC1206FR-0712KL | 0,090           |     | RC1206FR-0712KL | 0,091           |     |
| 1                       | 282836-2                                     | THT, Terminal Block  |                                     | X2  | Power board    | 2   | 3089034             | 282836-2        | 0,452           | 1   | 282836-2        | 0,830           |     | 282836-2        | 0,385           |     |
| 1                       | INDEL TST450/014                             | -  |                                     | Transformer: toroidal; 450VA; 230VAC; 2x40V; 2x5.62A; 4kg | Enclosure      | 1   | -                   |                 |                 |     | VPT100-5000     | 81,040          |     | VPM100-5000     | 129,850         |     |
| <b>Other</b>            |  |  |                                     |   |                |     |                     |                 |                 |     |                 |                 |     |                 |                 |     |
| 1                       | MEAN WELL LRS-150-48                         | Power module 48VDC; 3.3A   |                                     |   | Power board    | 2   | -                   |                 |                 |     | -               |                 |     | LRS-150-48      | 23,980          | 1   |
|                         | Option #1: MEAN WELL LRS-150F-48             | Power module 48VDC; 3.3A (auto-range)                                    |                                     |   | Power board    | 0   | -                   |                 |                 |     | -               |                 |     | LRS-150F-48     | 28,190          | 1   |
| 1                       | TFF-M3X40/DR124                              | 40 mm metal spacer, M3 (a pair is required for dual channel)             |                                     |   | Power board    | 2   | -                   |                 |                 |     |                 |                 |     |                 |                 |     |
|                         | Heatsink 70 x 120 mm                         | Not required if Varisom enclosure kit is purchased!                      |                                     |   | Power board    | 0   | -                   |                 |                 |     | -               |                 |     | -               |                 |     |
| 1                       | 12V fan 60x60mm                              |  |                                     |   | Enclosure      | 1   | -                   |                 |                 |     | -               |                 |     | -               |                 |     |
| 4                       | FSP-2  | Fastener for fan   |                                     |   | Enclosure      | 4   | -                   |                 |                 |     | -               |                 |     | -               |                 |     |
| 1                       | FG-06  | Finger guard, 60x60mm, metal   |                                     |   | Enclosure      | 1   | 2292912             | MC32696         | 0,567           | 1   | -               |                 |     | -               |                 |     |
| 1                       | Arduino Due                                  |  |                                     |   | Arduino Shield | 1   | 2250861             | A000062         | 40,660          | 1   |                 |                 |     |                 |                 |     |
| 1                       | 3.2" TFT LCD                                 |  |                                     |   | Arduino Shield | 1   | -                   |                 |                 |     |                 |                 |     |                 |                 |     |
| 1                       | 0.4 mm thermal silicone pad                  | for Q4   |                                     |   | Power board    | 2   |                     |                 |                 | 1   |                 |                 |     |                 |                 |     |
| 1                       | 5 mm thick thermal silicone pad (20 x 75 mm) | Mounted below power pre-regulator  |                                     | Search <a href="#">AliExpress</a> , eBay, etc.            | Power board    | 2   |                     |                 |                 |     |                 |                 |     |                 |                 |     |
| 1                       | Varisom enclosure kit                        | Enclosure, AC/DC mounting rail, TFT display mounting rail, handles, foot |                                     |   | Enclosure      | 1   | -                   |                 |                 |     |                 |                 |     |                 |                 |     |
| 1                       | PCB+PCBA                                     |  |                                     |   | Enclosure      | 1   | -                   |                 |                 |     |                 |                 |     |                 |                 |     |
| <b>Nuts &amp; bolts</b> |  |  |                                     |   |                |     |                     |                 |                 |     |                 |                 |     |                 |                 |     |
| 2                       | BS-244DSM-R                                  | Binding post 4mm, red  |                                     | J1, J4  | Arduino Shield | 2   | 1815818             | 2,12            | 4,240           |     |                 |                 |     |                 |                 |     |
| 1                       | BS-244DSM-G                                  | Binding post 4mm, green  |                                     | J2  | Arduino Shield | 1   | 1815820             | 2,17            | 2,170           |     |                 |                 |     |                 |                 |     |
| 2                       | BS-244DSM-B                                  | Binding post 4mm, black  |                                     | J3, J5  | Arduino Shield | 2   | 1815819             | 2,11            | 4,220           |     |                 |                 |     |                 |                 |     |
| 1                       | 12V fan 60x60mm                              |  |                                     |   | Enclosure      | 1   | -                   |                 |                 |     |                 |                 |     |                 |                 |     |
| 4                       | FSP-2  | Fastener for fan   |                                     |   | Enclosure      | 4   | -                   |                 |                 |     |                 |                 |     |                 |                 |     |
| 1                       | FG-06  | Finger guard, 60x60mm, metal   |                                     |   | Enclosure      | 1   | 2292912             | 0,453           | 0,453           | 1   |                 |                 |     |                 |                 |     |
| 2                       | M3x5 countersunk, black finish               | Rear and front panel   |                                     |   | Enclosure      | 2   |                     |                 |                 |     |                 |                 |     |                 |                 |     |
| 2                       | M3x5 countersunk, black finish               | AC/DC mounting rail  |                                     |   | Enclosure      | 2   |                     |                 |                 |     |                 |                 |     |                 |                 |     |

| RS Components |     |  |          |                 |              |     | TME                |              |     |     |     | Price calculation for 1 set |                   |           |             |       |
|---------------|-----|--|----------|-----------------|--------------|-----|--------------------|--------------|-----|-----|-----|-----------------------------|-------------------|-----------|-------------|-------|
| #             | Qty | Part name                                    | Code     | Part Number     | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |       |
|               |     | Option #1: UVZ1H222MHD                       | 845-4755 | UVZ1H222MHD     | 1,218        | 5   | UVZ1H222MHD        | 0,973        | 1   |     |     |                             |                   |           | 6,372       |       |
|               |     | Option #2: UVZ1J222MHD                       | 862-1759 | UVZ1J222MHD     | 2,814        | 1   | UVZ1J222MHD        | 1,593        | 1   | 4   |     | TME                         | 1,593 €           | 4         |             |       |
| 4             |     | STPS15H100                                   | 795-9075 | STPS15H100CB-TR | 0,924        | 5   | -                  |              |     |     | 8   | Mouser                      | 0,896 €           | 8         |             | 7,168 |
| 1             |     | 12K 1%                                       | 223-2401 | CRG1206F12K     | 0,008        | 50  | RC1206JR-0712K     | 0,006        | 100 |     | 2   | TME                         | 0,006 €           | 2         |             | 0,013 |
| 1             |     | 282836-2                                     | 361-7667 | 282836-2        | 0,414        | 5   | 282836-2           | 0,280        | 2   | 2   |     | TME                         | 0,280 €           | 2         |             | 0,560 |
| 1             |     | INDEL TST450/014                             |          |                 |              |     | TST450/014         | 36,500       | 1   | 1   |     | TME                         | 36,500 €          | 1         | 36,500      |       |
| 50,61 €       |     |  |          |                 |              |     |                    |              |     |     |     |                             |                   |           |             |       |
| Other         |     |  |          |                 |              |     |                    |              |     |     |     |                             |                   |           |             |       |
| 1             |     | MEAN WELL LRS-150-48 -                       |          |                 |              |     | LRS-150-48         | 15,100       | 1   | -   |     | TME                         | 15,100 €          | 2         | 30,200      |       |
|               |     | Option #1: MEAN WELL - LRS-150F-48           |          |                 |              |     | LRS-150F-48        | 18,000       | 1   | -   |     |                             |                   |           | 1,558       |       |
| 1             |     | TFF-M3X40/DR124                              | -        |                 |              |     | TFF-M3X40/DR124    | 0,156        | 10  | -   |     | TME                         | 0,156 €           | 10        |             |       |
|               |     | Heatsink 70 x 120 mm                         | -        |                 |              |     | RAD-A4463/120      | 1,370        | 1   | -   |     |                             |                   |           |             | 0,000 |
| 1             |     | 12V fan 60x60mm                              | -        |                 |              |     | MB60251V1-G99      | 2,590        | 1   | -   |     | TME                         | 2,590 €           | 1         |             | 2,590 |
| 4             |     | FSP-2  | -        |                 |              |     | FSP-2              | 0,140        | 5   | -   |     | TME                         | 0,140 €           | 1         |             | 0,140 |
| 1             |     | FG-06  | -        |                 |              |     | FG-06              | 0,513        | 1   | -   |     | TME                         | 0,513 €           | 1         | 0,513       |       |
| 1             |     | Arduino Due                                  | 769-7412 | A000062         | 33,680       | 1   | itead/Eckstein     | 19,480       |     | -   |     | TME                         | 19,480 €          | 1         | 19,480      |       |
| 1             |     | 3.2" TFT LCD                                 |          |                 |              |     | itead/Eckstein     | 12,140       |     | -   |     | TME                         | 12,140 €          | 1         | 12,140      |       |
| 1             |     | 0.4 mm thermal silicone pad                  |          |                 |              |     | SMICA-SOT93        |              | 10  | -   |     | Farnell                     | 0,000 €           | 20        | 0,000       |       |
| 1             |     | 5 mm thick thermal silicone pad (20 x 75 mm) |          |                 |              |     |                    |              |     | -   |     |                             |                   |           | 66,62 €     |       |
| 1             |     | Varisom enclosure kit                        |          |                 |              |     |                    |              |     | -   |     |                             |                   |           |             |       |
| 1             |     | PCB+PCBA                                     |          |                 |              |     |                    |              |     | -   |     |                             |                   |           |             |       |
| 66,62 €       |     |  |          |                 |              |     |                    |              |     |     |     |                             |                   |           |             |       |
| Nuts & bolts  |     |  |          |                 |              |     |                    |              |     |     |     |                             |                   |           |             |       |
| 2             |     | BS-244DSM-R                                  |          |                 |              |     | BS-244DSM-R        | 1,120        |     |     |     | TME                         | 1,120 €           | 2         | 2,240       |       |
| 1             |     | BS-244DSM-G                                  |          |                 |              |     | BS-244DSM-G        | 1,120        |     |     |     | TME                         | 1,120 €           | 1         | 1,120       |       |
| 2             |     | BS-244DSM-B                                  |          |                 |              |     | BS-244DSM-B        | 1,140        |     |     |     | TME                         | 1,140 €           | 2         | 2,280       |       |
| 1             |     | 12V fan 60x60mm                              |          |                 |              |     | MB60251V1-G99      | 4,110        |     |     |     | TME                         | 4,110 €           |           | 0,000       |       |
| 4             |     | FSP-2  |          |                 |              |     | FSP-2              | 0,140        |     |     |     | TME                         | 0,140 €           |           | 0,000       |       |
| 1             |     | FG-06  |          |                 |              |     | FG-06              | 0,513        |     |     |     | Farnell                     | 0,453 €           | 1         | 0,453       |       |
| 2             |     | M3x5 countersunk, black finish               |          |                 |              |     |                    |              |     |     |     |                             |                   |           |             |       |
| 2             |     | M3x5 countersunk, black finish               |          |                 |              |     |                    |              |     |     |     |                             |                   |           |             |       |

| #    | Qty | Part name                              | Package  | Reference designator | Board name     | Qty  | Farnell / Element14 |             |                 |     | Digi-Key    |                 |     | Mouser      |                 |     |
|------|-----|--|--|----------------------|----------------|------|---------------------|-------------|-----------------|-----|-------------|-----------------|-----|-------------|-----------------|-----|
|      |     |  |  |                      |                |      | Code                | Part Number | Unit price<br>€ | MOQ | Part Number | Unit price<br>€ | MOQ | Part Number | Unit price<br>€ | MOQ |
| 2    |     | M3x5 countersunk, black finish         | AC inlet   |                      | Enclosure      | 2    |                     |             |                 |     |             |                 |     |             |                 |     |
| 8    |     | M3x5 countersunk, black finish         | Power board top and bottom plate mounting                    |                      | Power board    | 16   |                     |             |                 |     |             |                 |     |             |                 |     |
|      |     |  |  |                      |                | 22   | -                   |             |                 |     |             |                 |     |             |                 |     |
| 4    |     | M4x6                                   | Front panel handles  |                      | Enclosure      | 4    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 1    |     | Washer externally serrated M3, D=6mm   | Earth connection   |                      | Enclosure      | 1    |                     |             |                 |     |             |                 |     |             |                 |     |
| 1    |     | Washer externally serrated M3, D=6mm   | Q4 mounting to heatsink                                      |                      | Power board    | 2    |                     |             |                 |     |             |                 |     |             |                 |     |
|      |     |  |  |                      |                | 3    | 7096471             | 0,013       | 0,013           |     |             |                 |     |             |                 |     |
| 1    |     | M3x12, cheese head                     | Q4 mounting to heatsink                                      |                      | Power board    | 2    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 4    |     | Washer M3, 8mm                         | Enclosure feet   |                      | Enclosure      | 4    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 5    |     | M3x8, black finish                     | AUX PS mounting, ext   |                      | AUX PS         | 5    |                     |             |                 |     |             |                 |     |             |                 |     |
| 8    |     | M3x8, black finish                     | Top and bottom plates  |                      | Enclosure      | 8    |                     |             |                 |     |             |                 |     |             |                 |     |
| 1    |     | M3x8, black finish                     | AC/DC mounting rail  |                      | Power board    | 2    |                     |             |                 |     |             |                 |     |             |                 |     |
| 4    |     | M3x8, black finish                     | Power board heatsink   |                      | Power board    | 8    |                     |             |                 |     |             |                 |     |             |                 |     |
|      |     |  |  |                      |                | 23   | -                   |             |                 |     |             |                 |     |             |                 |     |
| 5    |     | M3x5                                   | AUX PS mounting, int   |                      | AUX PS         | 5    |                     |             |                 |     |             |                 |     |             |                 |     |
| 2    |     | M3x5                                   | AC/DC mounting rail  |                      | Power board    | 4    |                     |             |                 |     |             |                 |     |             |                 |     |
|      |     |  |  |                      |                | 9    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 1    |     | TFF-M3X40/DR124                        | 40 mm metal spacer, M3 (a pair is required for dual channel) |                      | Power board    | 2    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 4    |     | Screwed spacer sleeve; hexagonal       | 14 mm, M3  |                      | AUX PS         | 4    | 1466812             | 0,326       | 1,304           |     |             |                 |     |             |                 |     |
| 9    |     | Screwed spacer sleeve; M5; 8mm; brass  | Extend binding post for PCB mounting                         |                      | Arduino Shield | 9    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 4    |     | Spacer sleeve; 5mm; cylindrical; brass | 5 mm between PCB and heatsink                                |                      | Power board    | 8    | 1733405             | 0,0652      | 0,522           |     |             |                 |     |             |                 |     |
| 4    |     | ???                                    | Spacer between display and Arduino shield                    |                      | Arduino Shield | 4    |                     |             | 0,000           |     |             |                 |     |             |                 |     |
| 12   |     | Light pipe for LED                     | Round; Ø3mm; Front: convex; straight                         |                      | Arduino Shield | 12   | 2293496             | 0,636       | 7,632           |     |             |                 |     |             |                 |     |
| 1    |     | Schurter 4304.6090                     | C14 IEC inlet, switch, 2 fuse drawer is included             |                      | Enclosure      | 1    | 2080294             | 8,65        | 8,650           |     |             |                 |     |             |                 |     |
| 2    |     | 4A Fuse                                |  |                      | AUX PS         | 2    | -                   |             |                 |     |             |                 |     |             |                 |     |
| 0,06 |     | CB-HFT50.8/1M-BL                       | Heat shrink sleeve; 2:1, 50.8mm                              |                      | AUX PS         | 0,06 | -                   |             |                 |     |             |                 |     |             |                 |     |
| 0,09 |     | Thermal pad 5mm                        |  | eBay, AliExpress     | Power board    | 0,17 | -                   |             |                 |     |             |                 |     |             |                 |     |

| Wire harness |            |                         |                |  |                |   |         |            |       |    |            |       |  |            |       |  |
|--------------|------------|-------------------------|----------------|--|----------------|---|---------|------------|-------|----|------------|-------|--|------------|-------|--|
| 1            | 10K NTC    | Main temperature sensor |                |  | Arduino Shield | 1 | 1187031 |            | 0,271 |    |            |       |  |            |       |  |
| 1            | 39-01-4030 | Receptacle for X1       | DC power input |  | Power board    | 2 | 9963480 | 39-01-4030 | 0,219 | 1  | 39-01-4030 | 0,300 |  | 39-01-4030 | 0,292 |  |
| 1            | 39-01-4050 | Receptacle for X4       | AC power input |  | AUX PS         | 1 | 9963502 | 39-01-4050 | 0,327 | 1  | 39-01-4050 | 0,360 |  | 39-01-4050 | 0,358 |  |
| 1            | 22-01-2035 | Receptacle for X6       | Cooling fan    |  | AUX PS         | 1 | 143127  | 22-01-2035 | 0,192 | 10 | 22-01-2035 | 0,310 |  | 22-01-2035 | 0,290 |  |
| 2            | NSR-08     | Receptacle for X8, X18  | Ethernet cable |  | AUX PS         | 2 |         |            |       |    |            |       |  |            |       |  |

| RS Components |      |  |          |             |              |     | TME                |              |     | THT |     | Price calculation for 1 set |                   |           |             |
|---------------|------|--|----------|-------------|--------------|-----|--------------------|--------------|-----|-----|-----|-----------------------------|-------------------|-----------|-------------|
| #             | Qty  | Part name                              | Code     | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier               | Best Line Price € | Order Qty | Line Cost € |
|               | 2    | M3x5 countersunk, black finish         |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 8    | M3x5 countersunk, black finish         |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               |      |  |          |             |              |     | M3X5/D965B         | 0,013        |     |     |     | TME                         | 0,013 €           | 22        | 0,291       |
|               | 4    | M4x6                                   |          |             |              |     | B4X6/BN3334        | 0,014        |     |     |     | TME                         | 0,014 €           |           | 0,000       |
|               | 1    | Washer externally serrated M3, D=6mm   |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 1    | Washer externally serrated M3, D=6mm   |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               |      |  |          |             |              |     | B3/BN789           | 0,008        |     |     |     | TME                         | 0,008 €           | 3         | 0,025       |
|               | 1    | M3x12, cheese head                     |          |             |              |     | B3X12/BN272        | 0,026        |     |     |     | TME                         | 0,026 €           | 2         | 0,051       |
|               | 4    | Washer M3, 8mm                         |          |             |              |     | B8X0.4/BN806       | 0,026        |     |     |     | TME                         | 0,026 €           | 4         | 0,103       |
|               | 5    | M3x8, black finish                     |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 8    | M3x8, black finish                     |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 1    | M3x8, black finish                     |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 4    | M3x8, black finish                     |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               |      |  |          |             |              |     | M3X8/D7985B        | 0,019        |     |     |     | TME                         | 0,019 €           | 23        | 0,426       |
|               | 5    | M3x5                                   |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 2    | M3x5                                   |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               |      |  |          |             |              |     | M3X5/D7985         | 0,013        |     |     |     | TME                         | 0,013 €           | 9         | 0,114       |
|               | 1    | TFF-M3X40/DR124                        |          |             |              |     | TFF-M3X40/DR124    | 0,156        |     |     |     | TME                         | 0,156 €           | 2         | 0,312       |
|               | 4    | Screwed spacer sleeve; hexagonal       |          |             |              |     | B3X14/BN3320       | 0,309        |     |     |     | TME                         | 0,309 €           | 4         | 1,238       |
|               | 9    | Screwed spacer sleeve; M5; 8mm; brass  |          |             |              |     | TFM-M5X8/DR218     | 0,187        |     |     |     | TME                         | 0,187 €           | 9         | 1,681       |
|               | 4    | Spacer sleeve; 5mm; cylindrical; brass |          |             |              |     | DR316/3.2X5        | 0,057        |     |     |     | TME                         | 0,057 €           | 8         | 0,456       |
|               | 4    | ???                                    |          |             |              |     |                    |              |     |     |     | Farnell                     | 0,000 €           | 4         | 0,000       |
|               | 12   | Light pipe for LED                     |          |             |              |     | PLP2-625           | 0,764        |     |     |     | TME                         | 0,764 €           | 12        | 9,173       |
|               | 1    | Schurter 4304.6090                     |          |             |              |     | 4304.6090          | 3,594        |     |     |     | TME                         | 3,594 €           | 1         | 3,594       |
|               | 2    | 4A Fuse                                |          |             |              |     | ZKT-4A             | 0,095        | 10  |     |     | TME                         | 0,095 €           | 2         | 0,189       |
|               | 0,06 | CB-HFT50.8/1M-BL                       |          |             |              |     | CB-HFT50.8/1M-BL   | 1,241        |     |     |     | TME                         | 1,241 €           | 1         | 1,241       |
|               | 0,09 | Thermal pad 5mm                        |          |             |              |     |                    |              |     |     |     |                             |                   |           | 0,000       |
|               |      |  |          |             |              |     |                    |              |     |     |     |                             |                   |           | 24,99 €     |
| Wire harness  |      |  |          |             |              |     |                    |              |     |     |     |                             |                   |           |             |
|               | 1    | 10K NTC                                |          |             |              |     | NTCLE100E3103JB0   | 0,269        |     |     |     | TME                         | 0,269 €           | 1         | 0,269       |
|               | 1    | 39-01-4030                             | 510-9685 | 39-01-4030  | 0,232        | 5   | MX-5557-03R2       | 0,132        | 5   | -   |     | TME                         | 0,132 €           | 2         | 0,264       |
|               | 1    | 39-01-4050                             | 510-9708 | 39-01-4050  | 0,188        | 5   | MX-5557-05R2       | 0,240        | 2   | -   |     | RS                          | 0,188 €           | 1         | 0,188       |
|               | 1    | 22-01-2035                             | 296-4940 | 22-01-2035  | 0,204        | 5   | MX-6471-031        | 0,050        | 10  | -   |     | TME                         | 0,050 €           | 1         | 0,050       |
|               | 2    | NSR-08                                 |          |             |              |     | NSR-08             | 0,087        | 10  | -   |     |                             |                   |           |             |

| #    | Qty | Part name                     | Package   | Reference designator                       | Board name     | Qty  | Farnell / Element14 |                  |                 |     | Digi-Key    |                 |     | Mouser          |                 |     |
|------|-----|-------------------------------|---|--|----------------|------|---------------------|------------------|-----------------|-----|-------------|-----------------|-----|-----------------|-----------------|-----|
|      |     |                               |   |  |                |      | Code                | Part Number      | Unit price<br>€ | MOQ | Part Number | Unit price<br>€ | MOQ | Part Number     | Unit price<br>€ | MOQ |
| 3    |     | 39-00-0078                    | Pins for X1   | DC power input                             | Power board    | 6    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 5    |     | 39-00-0078                    | Pins for X4   | AC power input                             | AUX PS         | 5    |                     |                  |                 |     |             |                 |     |                 |                 |     |
|      |     |                               |   |  |                | 11   | 9732675             | 39-00-0078 100pc | 13,300          | 1   | 39-00-0078  | 0,144           |     | 39-00-0078      | 0,112           |     |
| 3    |     | 08-50-0114                    | Pins for X6   | Cooling fan                                | AUX PS         | 3    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 2    |     | 08-50-0114                    | Pins for X17  | MAIN temperature sensor                    | Arduino board  | 2    |                     |                  |                 |     |             |                 |     |                 |                 |     |
|      |     |                               |   |  |                | 5    | 2063734             | 08-50-0114       | 0,030           | 10  | 08-50-0114  | 0,170           |     | 08-50-0114      | 0,141           |     |
| 21   |     | NDR-T                         | Contact; female; 28+22AWG;<br>NSR/NDR; tinned       | X8, X18                                    | Arduino Shield | 21   | 1022219             | M20-1180042      | 0,064           | 100 | 952-2158-ND | 0,130           |     | 855-M20-1180042 | 0,127           | 1   |
| 1    |     |                               | Ring terminal; M4; 1+2.5mm2                         |  | Enclosure      | 1    | -                   |                  |                 |     |             |                 |     |                 |                 |     |
| 4    |     | ST-003/05-20T                 | Female quick disconnect                             | AC switch patch cables                     | Enclosure      | 4    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 1    |     | ST-003/05-20T                 | Female quick disconnect                             | AC inlet Earth (Side B)                    | Enclosure      | 1    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 2    |     | ST-003/05-20T                 | Female quick disconnect                             | Lower AC/DC module power input<br>(Side B) | Enclosure      | 2    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 1    |     | ST-003/05-20T                 | Female quick disconnect                             | Cable set #1                               | Arduino board  | 1    |                     |                  |                 |     |             |                 |     |                 |                 |     |
|      |     |                               |   |  |                | 8    | 2060332             | 5-160433-6       | 0,063           | 50  |             |                 |     |                 |                 |     |
| 2    |     | H1.5/14D/BK                   | Bootlace ferrule; insulated,<br>1.5mm2              | Cable set #1                               | Enclosure      | 2    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 4    |     | H1.5/14D/BK                   | Bootlace ferrule; insulated,<br>1.5mm2              | Cable set #2                               | Enclosure      | 4    |                     |                  |                 |     |             |                 |     |                 |                 |     |
|      |     |                               |   |  |                | 6    | 9972307             | E1508-RED        | 0,028           | 100 |             |                 |     |                 |                 |     |
| 2    |     | H1.5/16D2/BK                  | Bootlace ferrule, twin entry;<br>insulated, 1.5mm2  | Cable set #1                               | Enclosure      | 2    |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 3    |     | H1.5/16D2/BK                  | Bootlace ferrule, twin entry;<br>insulated, 1.5mm2  | Cable set #2                               | Enclosure      | 3    |                     |                  |                 |     |             |                 |     |                 |                 |     |
|      |     |                               |   |  |                | 5    | 1121754             | 9037470000       | 0,112           | 100 |             |                 |     |                 |                 |     |
| 1    |     | Cat5E cable, stranded<br>wire |   | Ethernet cable                             | Enclosure      | 1    | 1734894             | PS11029          | 1,120           | 1   |             |                 |     |                 |                 |     |
| 0,09 |     | LGY1.5/10-BR                  | Insulated wire, stranded,<br><b>brown</b> , 1.5 mm2 | AC switch patch cables                     | Enclosure      | 0,09 |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 0,2  |     | LGY1.5/10-BR                  | Insulated wire, stranded,<br><b>brown</b> , 1.5 mm2 | Lower AC/DC module power input             | Enclosure      | 0,2  |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 0,07 |     | LGY1.5/10-BR                  | Insulated wire, stranded,<br><b>brown</b> , 1.5 mm2 | Upper AC/DC module power input             | Enclosure      | 0,07 |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 0,11 |     | LGY1.5/10-BR                  | Insulated wire, stranded,<br><b>brown</b> , 1.5 mm2 | AUX PS module power input                  | Enclosure      | 0,11 |                     |                  |                 |     |             |                 |     |                 |                 |     |
|      |     |                               |   |  |                | 0,47 | 1764967             | 6716 BR005       | 0,757           | 31  |             |                 |     |                 |                 |     |
| 0,09 |     | LGY1.5/10-BL                  | Insulated wire, stranded, <b>blue</b> ,<br>1.5 mm2  | AC switch patch cables                     | Enclosure      | 0,09 |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 0,2  |     | LGY1.5/10-BL                  | Insulated wire, stranded, <b>blue</b> ,<br>1.5 mm2  | Lower AC/DC module power input             | Enclosure      | 0,2  |                     |                  |                 |     |             |                 |     |                 |                 |     |
| 0,07 |     | LGY1.5/10-BL                  | Insulated wire, stranded, <b>blue</b> ,<br>1.5 mm2  | Upper AC/DC module power input             | Enclosure      | 0,07 |                     |                  |                 |     |             |                 |     |                 |                 |     |

| RS Components |      |                               |          |                     |                 |     | TME                |                 |     |     |     | Price calculation for 1 set |                      |              |             |
|---------------|------|-------------------------------|----------|---------------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|----------------------|--------------|-------------|
| #             | Qty  | Part name                     | Code     | Part Number         | Unit price<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ | THT | SMD | Best<br>Supplier            | Best Line<br>Price € | Order<br>Qty | Line Cost € |
|               | 3    | 39-00-0078                    |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 5    | 39-00-0078                    |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                               | 215-5887 | 39-00-0078<br>100pc | 14,100          | 1   | MX-5556-T3L        | 0,074           | 10  | -   |     | TME                         | 0,074 €              | 11           | 0,816       |
|               | 3    | 08-50-0114                    |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 2    | 08-50-0114                    |          |                     |                 |     |                    |                 |     |     |     | Farnell                     | 0,000 €              |              |             |
|               |      |                               | 172-9178 | 08-50-0114          | 0,085           | 100 | MX-0850-0114       | 0,047           | 10  | -   |     | Farnell                     | 0,030 €              | 5            | 0,150       |
|               | 21   | NDR-T                         | 681-2887 | 122-4777            | 0,041           | 100 | NDR-T              | 0,027           | 25  |     |     | TME                         | 0,027 €              | 21           | 0,566       |
|               | 1    |                               |          |                     |                 |     | 3804/M.05.00.9     | 0,025           | 20  |     |     | TME                         | 0,025 €              |              | 0,000       |
|               | 4    | ST-003/05-20T                 |          |                     |                 |     |                    |                 |     | -   |     |                             |                      |              | 0,000       |
|               | 1    | ST-003/05-20T                 |          |                     |                 |     |                    |                 |     | -   |     |                             |                      |              | 0,000       |
|               | 2    | ST-003/05-20T                 |          |                     |                 |     |                    |                 |     | -   |     |                             |                      |              | 0,000       |
|               | 1    | ST-003/05-20T                 |          |                     |                 |     |                    |                 |     | -   |     |                             |                      |              | 0,000       |
|               |      |                               |          |                     |                 |     | ST-003/05-20       | 0,051           |     | -   |     | TME                         | 0,051 €              | 8            | 0,406       |
|               | 2    | H1.5/14D/BK                   |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 4    | H1.5/14D/BK                   |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                               |          |                     |                 |     | H1.5/14D/BK        | 0,024           | 20  | -   |     | TME                         | 0,024 €              | 6            | 0,141       |
|               | 2    | H1.5/16D2/BK                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 3    | H1.5/16D2/BK                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                               |          |                     |                 |     | H1.5/16D2/BK       | 0,047           | 10  |     |     | TME                         | 0,047 €              | 5            |             |
|               | 1    | Cat5E cable, stranded<br>wire |          |                     |                 |     | CA00600.00C01      | 6,800           | 1   | -   |     | Farnell                     | 1,120 €              | 1            | 1,120       |
|               | 0,09 | LGY1.5/10-BR                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,2  | LGY1.5/10-BR                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,07 | LGY1.5/10-BR                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,11 | LGY1.5/10-BR                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                               |          |                     |                 |     | LGY1.5/10-BR       | 0,620           | 10  | -   |     | TME                         | 0,620 €              | 0            | 0,291       |
|               | 0,09 | LGY1.5/10-BL                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,2  | LGY1.5/10-BL                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,07 | LGY1.5/10-BL                  |          |                     |                 |     |                    |                 |     |     |     |                             |                      |              |             |



| #    | Qty               | Part name   | Package                                | Reference designator | Board name | Qty     | Farnell / Element14 |             |                 |     | Digi-Key    |                 |     | Mouser      |                 |     |
|------|-------------------|---|--|----------------------|------------|---------|---------------------|-------------|-----------------|-----|-------------|-----------------|-----|-------------|-----------------|-----|
|      |                   |   |  |                      |            |         | Code                | Part Number | Unit price<br>€ | MOQ | Part Number | Unit price<br>€ | MOQ | Part Number | Unit price<br>€ | MOQ |
| 0,11 | LGY1.5/10-BL      | Insulated wire, stranded, <b>blue</b> , 1.5 mm2         | AUX PS module power input              | Enclosure            | 0,11       |         |                     |             |                 |     |             |                 |     |             |                 |     |
|      |                   |   |  |                      | 0,47       | 1764966 | 6716 BL005          | 0,779       | 31              |     |             |                 |     |             |                 |     |
| 0,4  | LGY1.5/10-RD      | Insulated wire, stranded, <b>red</b> , 1.5 mm2          | Cable set #1, Power board X1 cable     | Enclosure            | 0,4        |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,33 | LGY1.5/10-RD      | Insulated wire, stranded, <b>red</b> , 1.5 mm2          | Cable set #2, Power board X1 cable     | Enclosure            | 0,33       |         |                     |             |                 |     |             |                 |     |             |                 |     |
|      |                   |   |  |                      | 0,73       | 1764971 | 6716 RD005          | 0,740       | 31              |     |             |                 |     |             |                 |     |
| 0,4  | LGY1.5/10-BK      | Insulated wire, stranded, <b>black</b> , 1.5 mm2        | Cable set #1, Power board X1 cable     | Enclosure            | 0,4        |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,33 | LGY1.5/10-BK      | Insulated wire, stranded, <b>black</b> , 1.5 mm2        | Cable set #2, Power board X1 cable     | Enclosure            | 0,33       |         |                     |             |                 |     |             |                 |     |             |                 |     |
|      |                   |   |  |                      | 0,73       | 1764965 | 6716 BK005          | 0,583       | 31              |     |             |                 |     |             |                 |     |
| 0,4  | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | Cable set #1, Power board X1 cable     | Enclosure            | 0,4        |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,07 | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | Cable set #1, AC/DC module Earth       | Enclosure            | 0,07       |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,17 | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | Chassis Earth                          | Enclosure            | 0,17       |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,5  | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | Arduino Shield Earth                   | Enclosure            | 0,5        |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,33 | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | Cable set #2, Power board X1 cable     | Enclosure            | 0,33       |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,15 | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | Cable set #2, AC/DC module Earth       | Enclosure            | 0,15       |         |                     |             |                 |     |             |                 |     |             |                 |     |
| 0,15 | GY1.5/10-YL/GR    | Insulated wire, stranded, <b>green-yellow</b> , 1.5 mm2 | AUX PS module Earth                    | Enclosure            | 0,15       |         |                     |             |                 |     |             |                 |     |             |                 |     |
|      |                   |   |  |                      | 1,77       | 1764969 | 6716 GY005          | 0,818       | 31              |     |             |                 |     |             |                 |     |
| 1    | Arduino USB cable | USB micro to 5-pin receptacle cable, 30 or 50 cm        | Search e.g. <a href="#">AliExpress</a> |                      | 1          | -       |                     |             |                 |     |             |                 |     |             |                 |     |
| 1    | FC10300-0         | Ribbon cable with IDC connectors, 30 cm                 |  | Arduino Shield       | 1          | -       |                     |             |                 |     |             |                 |     |             |                 |     |

All prices are net prices (without VAT)

Please note that this BOM does *not* contain ordering number for parts on reels or that which include re-reeling fee.

| RS Components |      |                   |      |             |                 |     | TME                |                 |     |     |     | Price calculation for 1 set |                      |              |             |
|---------------|------|-------------------|------|-------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|----------------------|--------------|-------------|
| #             | Qty  | Part name         | Code | Part Number | Unit price<br>€ | MOQ | Code / Part Number | Unit price<br>€ | MOQ | THT | SMD | Best<br>Supplier            | Best Line<br>Price € | Order<br>Qty | Line Cost € |
|               | 0,11 | LGY1.5/10-BL      |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                   |      |             |                 |     | LGY1.5/10-BL       | 0,620           | 10  | -   |     | TME                         | 0,620 €              | 0            | 0,291       |
|               | 0,4  | LGY1.5/10-RD      |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,33 | LGY1.5/10-RD      |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                   |      |             |                 |     | LGY1.5/10-RD       | 0,620           | 10  | -   |     | TME                         | 0,620 €              | 1            | 0,453       |
|               | 0,4  | LGY1.5/10-BK      |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,33 | LGY1.5/10-BK      |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                   |      |             |                 |     | LGY1.5/10-BK       | 0,620           | 10  | -   |     | Farnell                     | 0,583 €              | 1            | 0,425       |
|               | 0,4  | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,07 | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,17 | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,5  | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,33 | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,15 | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               | 0,15 | GY1.5/10-YL/GR    |      |             |                 |     |                    |                 |     |     |     |                             |                      |              |             |
|               |      |                   |      |             |                 |     | GY1.5/10-YL/GR     | 0,620           | 10  | -   |     | TME                         | 0,620 €              | 2            | 1,097       |
|               | 1    | Arduino USB cable |      |             |                 |     | -                  |                 |     | -   |     | Farnell                     | 0,000 €              | 1            | 0,000       |
|               | 1    | FC10300-0         |      |             |                 |     | FC10300-0          | 1,040           | 1   | -   |     | TME                         | 1,040 €              | 1            | 1,040       |
|               |      |                   |      |             |                 |     |                    |                 |     |     |     |                             |                      |              | 7,57 €      |

**Total 334,08 €**

PCBs 25,00  
Enclosure 51,00  
**76,00**

**Estimated total: 410,08 €**