

| # | Qty | Part name | Package | Reference designator | Board name | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|----|-----|--------------------|------------------------|---|----------------|-----|---------------------|---------------------|-----------------|-----|------------------|-----------------|-----|--------------------|-----------------|-----|
| | | | | | | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | 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 | 17 | 100n 16V X7R | 0603 | C9, C20, C32, C43, C44, C45, C49, C50, C51, C54, C56, C59, C63, C65, C69, C72, C73 | Power board | 34 | | | | | | | | | | |
| | 5 | 100n 16V X7R | 0603 | C81, C82, C83, C84, C85 | AUX PS | 5 | | | | | | | | | | |
| | 27 | 100n 16V X7R | 0603 | C97, C98, C99, C100, C101, C102, C104, C106, C107, C108, C109, C111, C113, C114, C121, C122, C123, C124, C125, C126, C127, C128, C132, C134, C136, C139, C141 | Arduino Shield | 27 | | | | | | | | | | |
| | | | | | | 66 | 2496832 | 0603B104K160CT | 0,012 | 10 | 0603YC104KAT2A | 0,010 | | 06033C104K4T4A | 0,025 | |
| 3 | 1 | 220u 16V | SMD ELCO; Ø6.3 x 7.7mm | C78 | AUX PS | 1 | 1870605 | MCESL16V227M6.3X7.7 | 0,213 | 10 | 399-6679-1-ND | 0,410 | 1 | 80-EDK227M016A9 | 0,407 | 1 |
| 4 | 5 | 10n 50V X7R | 0805 | C118, C131, C135, C137, C138 | Arduino Shield | 5 | | | | | | | | | | |
| | 7 | 10n 50V X7R | 0805 | C25, C28, C35, C42, C47, C70, C74 | Power board | 14 | | | | | | | | | | |
| | | | | | | 19 | 1759246 | MC0805B103K500CT | 0,009 | 10 | CL21B103KBCN NNC | 0,027 | | GRM216R71H103KA01D | 0,014 | |
| 5 | 2 | 10u 50V X7R | 1210 | C90, C110 | Arduino Shield | 2 | | | | | | | | | | |
| | 7 | 10u 50V X7R | 1210 | C10, C16, C22, C24, C29, C30, C55 | Power board | 14 | | | | | | | | | | |
| | | | | | | 16 | 2362133 | GRM32ER71H106KA12L | 0,748 | 1 | CL32B106KBJN NWE | 0,335 | | GRM32ER71H106KA12L | 0,376 | |
| 6 | 2 | 10u 10V | 1206, Tantalum | C105, C129 | Arduino Shield | 2 | | | | | | | | | | |
| | 3 | 10u 10V | 1206, Tantalum | C23, C31, C57 | Power board | 6 | | | | | | | | | | |
| | | | | | | 8 | 1457413 | T491A106K010AT | 0,260 | 5 | T491A106K010AT | 0,340 | | T491A106K010AT | 0,344 | |
| 7 | 2 | 120p 50V NP0 | 0805 / 0603 | C17, C39 | Power board | 4 | 1414667 | C0805C121J5GAC TU | 0,044 | 10 | CL21C121JBAN NNC | 0,058 | | C0805C121J5GACTU | 0,031 | |
| 8 | 2 | 18p 50V NP0 | 0805 / 0603 | C116, C120 | Arduino Shield | 2 | 2320820 | MC0805N180J101CT | 0,026 | 10 | CL21C180JBAN NNC | 0,090 | | C0805C180J5GACTU | 0,100 | |
| 9 | 2 | 1n 50V NP0 | 0805 / 0603 | C52, C53 | Power board | 4 | 1759227 | MC0805N102J500CT | 0,029 | 10 | CL21C102JBCN NNC | 0,065 | | C0805C102J5GACTU | 0,038 | |
| 10 | 2 | 1u 100V X7R | 1206, 100V | C8, C33 | Power board | 4 | 2320876 | MC1206B105K101CT | 0,200 | 5 | CL31B105KCHN NNE | 0,253 | | GRM31CR72A105KA01L | 0,227 | |
| 11 | 7 | 1u 50V X7R | 0805, 50V | C11, C26, C46, C48, C58, C64, C66 | Power board | 14 | 2118131 | C0805C105K5RAC TU | 0,215 | 5 | CL21B105KBFN NNE | 0,129 | | 08055C105K4T2A | 0,135 | |
| 12 | 1 | 22n 50V X7R | 0805 | C115 | Arduino Shield | 1 | 1759252 | MC0805B223K500CT | 0,016 | 10 | CL21B223KBAN NNC | 0,058 | | C0805C223K5RAC | 0,031 | |
| 13 | 5 | 2n2 50V NP0 | 0805 / 0603 | C36, C37, C38, C40, C71 | Power board | 10 | 1759236 | MC0805N222J500CT | 0,052 | 10 | CL21C222JBFN NNG | 0,078 | | GRM2165C1H222JA01D | 0,076 | |
| 14 | 4 | 3n3 50V X7R or NP0 | 0805 / 0603 | C60, C61, C67, C68 | Power board | 8 | 1759291 | MC0805B332K101CT | 0,015 | 10 | CL21B332KBAN NNC | 0,045 | | C0805C332K5RAC | 0,024 | |
| 15 | 1 | 470n 50V X7R | 0805, 50V | C7 | Power board | 2 | | | | | | | | | | |
| | 2 | 470n 50V X7R | 0805, 50V | C87, C92 | Arduino Shield | 2 | | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|----|---------------|--------------------|----------|-------------------------|-----------------|-----|------------------------|-----------------|-----|---------|--|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 1 | 1 | 2x3-pin socket | 681-6832 | M20-7830346 | 0,899 | 5 | ZL262-6DG | 0,070 | 10 | 1 | | TME | 0,070 € | 1 | 0,070 |
| 2 | 17 | 100n 16V X7R | | | | | | | | | | | | | |
| | 5 | 100n 16V X7R | | | | | | | | | | | | | |
| | 27 | 100n 16V X7R | | | | | | | | | | | | | |
| | | | 391-246 | 0603YC104JAT2 A | 0,004 | 50 | CL10B104KO8NNNC | 0,004 | 100 | 66 | | 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 | 5 | 10n 50V X7R | | | | | | | | | | | | | |
| | 7 | 10n 50V X7R | | | | | | | | | | | | | |
| | | | 461-4013 | CC0805KRX7R9 BB103 | 0,007 | 50 | CL21B103JBANNNC | 0,006 | 100 | 19 | | TME | 0,006 € | 20 | 0,120 |
| 5 | 2 | 10u 50V X7R | | | | | | | | | | | | | |
| | 7 | 10u 50V X7R | | | | | | | | | | | | | |
| | | | 766-1214 | CL32B106KBJN NNE | 0,601 | 10 | CL32B106KBJNNNE | 0,201 | 10 | 16 | | TME | 0,201 € | 16 | 3,216 |
| 6 | 2 | 10u 10V | | | | | | | | | | | | | |
| | 3 | 10u 10V | | | | | | | | | | | | | |
| | | | 538-2278 | T491A106K010A T | 0,196 | 10 | T491A106K010AT | 0,085 | 10 | 8 | | TME | 0,085 € | 10 | 0,845 |
| 7 | 2 | 120p 50V NP0 | 723-6209 | GRM2165C1H1 21JA01D | 0,035 | 100 | CL21C121JBANNNP | 0,007 | 100 | 4 | | TME | 0,007 € | 10 | 0,069 |
| 8 | 2 | 18p 50V NP0 | 648-0935 | C0805C180J5G ACTU | 0,157 | 10 | CL21C180JBANNNC | 0,071 | 100 | 2 | | Farnell | 0,026 € | 2 | 0,053 |
| 9 | 2 | 1n 50V NP0 | 378-710 | 0805CG102J9B B | 0,021 | 25 | CL21C102JBCNNNC | 0,010 | 100 | 4 | | TME | 0,010 € | 10 | 0,097 |
| 10 | 2 | 1u 100V X7R | 740-7590 | C3216X7R2A10 5K160AA | 0,174 | 10 | GRM31CR72A105KA0 1L | 0,128 | 10 | 4 | | TME | 0,128 € | 10 | 1,279 |
| 11 | 7 | 1u 50V X7R | 766-1062 | CL21B105KBFN NNF | 0,041 | 100 | CL21B105KBFNNG | 0,014 | 100 | 14 | | TME | 0,014 € | 15 | 0,214 |
| 12 | 1 | 22n 50V X7R | 464-6701 | 08055C223KAT2 A | 0,015 | 50 | CL21B223KBANNNC | 0,008 | 100 | 1 | | TME | 0,008 € | 10 | 0,084 |
| 13 | 5 | 2n2 50V NP0 | 802-9905 | C0805C222J5G ACTU | 0,043 | 100 | GRM2165C1H222JA0 1D | 0,015 | 100 | 10 | | TME | 0,015 € | 10 | 0,145 |
| 14 | 4 | 3n3 50V X7R or NP0 | 237-7009 | GRM216R71H3 32KA01D | 0,038 | 50 | CL21B332KBANNNC | 0,007 | 100 | 8 | | TME | 0,007 € | 10 | 0,069 |
| 15 | 1 | 470n 50V X7R | | | | | | | | | | | | | |
| | 2 | 470n 50V X7R | | | | | | | | | | | | | |

| # | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | | |
|----|-----|---|---------------------------------------|----------------------|----------------|---------------------|---------|--------------------------|-----------------|----------|------------------------|-----------------|--------|----------------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | | | | | | 4 | 2470492 | GRM21BR71H474 KA88L | 0,163 | 5 | CL21B474KBFN FNE | 0,139 | | C0805C474K5R ACTU | 0,103 | |
| 16 | 2 | 470p 50V NP0 | 0805 / 0603 | C14, C19 | Power board | 4 | 1759217 | MC0805N471J500 CT | 0,023 | 10 | CL21C471JBAN NNC | 0,090 | | 08055A471JAT2 A | 0,091 | |
| 17 | 2 | 47n 50V X7R | 0805 | C133, C140 | Arduino Shield | 2 | | | | | | | | | | |
| | 1 | 47n 50V X7R | 0805 | C79 | AUX PS | 1 | | | | | | | | | | |
| | | | | | | 3 | 2496983 | 0805B473K500CT | 0,023 | 10 | CL21B473KBCN NNC | 0,090 | | 08055C473KAT2 A | 0,091 | |
| 18 | 1 | 47n 400V Polyester Film | THT R=7,5mm | C76 | AUX PS | 1 | 2468839 | B32520E6473K000 | 0,358 | 1 | - | | | - | | |
| 19 | 2 | 47p 50V NP0 | 0805 / 0603 | C34, C41 | Power board | 4 | 1414692 | C0805C470J5GAC TU | 0,028 | 10 | CL21C470JBAN NNC | 0,043 | | C0805C470J5GA CTU | 0,029 | |
| 20 | 1 | 47u 35V | SMD ELCO, Ø6.3 x 5.8mm | C103 | Arduino Shield | 1 | | | | | | | | | | |
| | 2 | 47u 35V | SMD ELCO, Ø6.3 x 5.8mm | C77, C80 | AUX PS | 2 | | | | | | | | | | |
| | | | | | | 3 | 9695850 | EEEFK1V470P | 0,493 | 1 | EEEFK1V470P | 0,440 | | EEEFK1V470P | 0,443 | |
| 21 | 1 | 47u 50V | SMD ELCO; Ø8x10.2mm | C13 | Power board | 2 | | | | | | | | | | |
| | 2 | 47u 50V | SMD ELCO; Ø8x10.2mm | C89, C94 | Arduino board | 2 | | | | | | | | | | |
| | | | | | | 4 | 2326151 | EEE1HA220WAP | 0,341 | 1 | 493-9884-1-ND | 0,280 | 1 | 647- UWT1H220MCL6 GS | 0,339 | 1 |
| 22 | 4 | 4n7 100V X7R | 0805 | C1, C2, C4, C18 | Power board | 8 | | | | | | | | | | |
| | 4 | 4n7 100V X7R | 0805 | C88, C91, C93, C95 | Arduino board | 4 | | | | | | | | | | |
| | | | | | | 12 | 1759293 | MC0805B472K101 CT | 0,019 | 10 | CL21B472KCAN NNC | 0,065 | | GRM21AR72D47 2KW01D | 0,050 | |
| 23 | 1 | 4u7 10V | 1206, Tantalum | C130 | Arduino Shield | 1 | | | | | | | | | | |
| | 1 | 4u7 10V | 1206, Tantalum | C21 | Power board | 2 | | | | | | | | | | |
| | | | | | | 3 | 1457428 | T491A475K016AT | 0,238 | 5 | T491A475K010A T | 0,310 | | T491A475K010A T | 0,299 | |
| 24 | 2 | 4u7 100V X7R | 1210, 100V, X7R | C5, C6 | Power board | 4 | 2211140 | CGA6M3X7S2A47 5K200AB | 1,560 | 1 | GRJ32DC72A47 5KE11L | 1,240 | | GRJ32DC72A47 5KE11L | 1,250 | |
| 25 | 2 | 6n8 50V X7R or NP0 | 0603 | C117, C119 | Arduino Shield | 2 | 1759100 | MC0603B682K500 CT | 0,007 | 10 | CL10B682KB8N NNC | 0,090 | | GRM188R71H68 2KA01J | 0,091 | |
| 26 | 1 | 6n8 (X1 / Y2) PP Film 300Vac 1000Vdc | THT R=10mm | C75 | AUX PS | 1 | 2478385 | R413F16804000M | 0,528 | 1 | R413F16804000 M | 0,520 | | R413F16804000 M | 0,525 | |
| 27 | 1 | 1F 5,5V Backup Cap | THT | C112 | Arduino Shield | 1 | 9697497 | EEC-S5R5H105 | 4,660 | 1 | EEC-S5R5H105 | 3,480 | | EEC-S5R5H105 | 3,510 | |
| 28 | 1 | 100u 63V | SMD ELCO; Ø10 x 10.2mm | C15 | Power board | 2 | 9696040 | EEEFK1J101P | 0,846 | 1 | EEE-FK1J101P | 0,930 | | EEE-FK1J101P | 0,932 | |
| 29 | 2 | 18u 50V | SMD ELCO Polymer ; Ø8x6.3mm | C3 | Power bord | 2 | | | | | | | | | | |
| | 2 | 18u 50V | SMD ELCO Polymer ; Ø8x6.3mm | C86, C96 | Arduino Shield | 2 | | | | | | | | | | |
| | | | | | | 4 | 2354813 | 50SVPF18M | 1,830 | 1 | P18942CT-ND | 1,430 | 1 | 667-50SVPF18M | 1,720 | 1 |
| 30 | 1 | BAS316 | SOD-323 | D12 | AUX PS | 1 | | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|----|---------------|---|----------|--------------------------|-----------------|-----|--------------------|-----------------|-----|---------|--|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| | | | 766-1053 | CL21B474KBF4 PNG | 0,085 | 50 | CL21B474KBFNNNG | 0,015 | 100 | 4 | | TME | 0,015 € | 10 | 0,153 |
| 16 | 2 | 470p 50V NP0 | 378-700 | 0805CG471J9B B | 0,021 | 25 | CL21C471JBANNNC | 0,009 | 100 | 4 | | TME | 0,009 € | 2 | 0,018 |
| 17 | 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 |
| 18 | 1 | 47n 400V Polyester Film | 668-9993 | B32520C6473K1 89 | 0,241 | 10 | - | | | 1 | | RS | 0,241 € | 1 | 0,241 |
| 19 | 2 | 47p 50V NP0 | 264-4270 | C0805C470J5G ACTU | 0,014 | 25 | CC0805JRNPO9470 | 0,007 | 100 | 4 | | TME | 0,007 € | 10 | 0,074 |
| 20 | 1 | 47u 35V | | | | | | | | | | | | | |
| | 2 | 47u 35V | 565-623 | EEEFK1V470AP | 0,165 | 5 | EEEFK1V470P | 0,157 | 5 | 3 | | TME | 0,157 € | 10 | 1,572 |
| 21 | 1 | 47u 50V | | | | | | | | | | | | | |
| | 2 | 47u 50V | 520-2009 | UWT1H220MCL 1GB | 0,174 | 25 | UWT1H220MCL6GS | 0,009 | 10 | 4 | | TME | 0,009 € | 5 | 0,047 |
| 22 | 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 |
| 23 | 1 | 4u7 10V | | | | | | | | | | | | | |
| | 1 | 4u7 10V | 538-2341 | T491A475K016A T | 0,179 | 10 | T491A475M010AT | 0,128 | 5 | 3 | | TME | 0,128 € | 5 | 0,640 |
| 24 | 2 | 4u7 100V X7R | 915-5415 | CGA6M3X7S2A 475K200AB | 0,686 | 5 | - | | | 4 | | RS | 0,686 € | 4 | 2,744 |
| 25 | 2 | 6n8 50V X7R or NP0 | 147-825 | C0603C682K5R ACTU | 0,007 | 50 | CL10B682JB8NNNC | 0,004 | 100 | 2 | | TME | 0,004 € | 10 | 0,042 |
| 26 | 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 |
| 27 | 1 | 1F 5,5V Backup Cap | 339-6843 | EECS5R5H105 | 3,556 | 1 | EECS5R5H105 | 2,190 | 1 | 1 | | TME | 2,190 € | 1 | 2,190 |
| 28 | 1 | 100u 63V | 708-3623 | EEEFK1J101P | 0,641 | 5 | EEEFK1J101P | 0,380 | 5 | 2 | | TME | 0,380 € | 2 | 0,760 |
| 29 | 2 | 18u 50V | | | | | | | | | | | | | |
| | 2 | 18u 50V | | | | | | | | | | | | | |
| | | | - | | | | - | | | 4 | | Digikey | 1,430 € | 5 | 7,150 |
| 30 | 1 | BAS316 | | | | | | | | | | | | | |

| # | Qty | Part name | Package | Reference designator | Board name | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|----|-----|--------------------|-------------------|-------------------------------------|----------------|-----|---------------------|--------------------|-----------------|-----|--------------------|-----------------|-----|--------------------|-----------------|-----|
| | | | | | | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | 6 | BAS316 | SOD-323 | D13, D14, D15, D16, D18, D21 | Arduino Shield | 6 | | | | | | | | | | |
| | 9 | BAS316 | SOD-323 | D2, D3, D4, D5, D6, D7, D8, D9, D10 | Power board | 18 | | | | | | | | | | |
| | | | | | | 25 | 8734275 | BAS316,115 | 0,192 | 5 | BAS316,115 | 0,175 | | BAS316,115 | 0,174 | |
| 31 | 1 | BAT54S | SOT-23 | D19 | Arduino Shield | 1 | 1621835 | BAT54S | 0,125 | 10 | BAT54SLT1G | 0,150 | | BAT54SLT1G | 0,145 | |
| 32 | 1 | SKL16 | SOD-323 | D11 | AUX PS | 1 | | | | | | | | | | |
| | 1 | SKL16 | SOD-323 | D20 | Arduino Shield | 1 | | | | | | | | | | |
| | | | | | | 2 | 8738025 | PMEG4005AEA | 0,104 | 5 | PMEG4005AEA | 0,325 | | PMEG4005AEA | 0,286 | |
| 33 | 1 | STPS15H100 | TO-252 | D1 | Power board | 2 | 2344052 | STPS15H100CB-TR | 1,070 | 1 | STPS15H100CB | 0,900 | | STPS15H100CB | 0,896 | |
| 34 | 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 |
| 35 | 3 | 60R@100MHz | 0603 Ferrite Bead | FB1, FB2, FB3 | Power board | 6 | | | | | | | | | | |
| | 3 | 60R@100MHz | 0603 Ferrite Bead | FB4, FB5, FB6 | AUX PS | 3 | | | | | | | | | | |
| | 1 | 60R@100MHz | 0603 Ferrite Bead | FB7 | Arduino Shield | 1 | | | | | | | | | | |
| | | | | | | 10 | 1635704 | 742792602 | 0,210 | 1 | 742792602 | 0,210 | | 742792602 | 0,160 | |
| 36 | 1 | LTC3864EMSE#PBF | MSOP-12 | IC1 | Power board | 2 | 2293128 | LTC3864EMSE#PBF | 4,520 | 1 | LTC3864EMSE#PBF | 3,960 | | - | | |
| 37 | 1 | DAC8552IDGKTG4 | MSOP-8 (VSSOP-8) | IC10 | Power board | 2 | 1329584 | DAC8552IDGKTG4 | 6,420 | 1 | DAC8552IDGKT | 7,660 | | DAC8552IDGKR | 6,510 | |
| 38 | 1 | ADG465BRTZ | SOT-23 | IC11 | Power board | 2 | 2376952 | ADG465BRTZ-REEL7 | 1,690 | 1 | Discontinued | | | Discontinued | | |
| 39 | 1 | TS5A9411DCKT | SC-70 | IC12 | Power board | 2 | 1755582 | TS5A9411DCKT | 1,050 | 1 | TS5A9411DCKR | 0,560 | | TS5A9411DCKR | 0,534 | |
| 40 | 1 | ADS1120IPWR | TSSOP-16 | IC13 | Power board | 2 | 2402249 | ADS1120IPWR | 6,760 | 1 | ADS1120IPWR | 6,250 | | ADS1120IPWR | 6,100 | |
| 41 | 1 | LP339D | SOIC-14 | IC14 | Power board | 2 | 9589686 | LP339D | 0,573 | 1 | LP339DR | 0,520 | | LP339DR | 0,498 | |
| 42 | 1 | TPD4E002DRLR | | IC15 | AUX PS | 1 | 1755329 | TPD4E002DRLR | 0,275 | 1 | 296-21694-1-ND | 0,660 | 1 | 595-TPD4E002DRLR | 0,594 | 1 |
| 43 | 1 | TPD2E001DZDR | | IC16 | AUX PS | 1 | 2335446 | TPD2E001DZDR | 0,506 | 1 | 296-24770-1-ND | 0,580 | 1 | 595-TPD2E001DZDR | 0,519 | 1 |
| 44 | 1 | ADUM3160BRWZ | | IC17 | AUX PS | 1 | 1843660 | ADUM3160BRWZ | 7,070 | 1 | ADUM3160BRWZ-ND | 7,290 | 1 | 584-ADUM3160BRWZ | 6,660 | 1 |
| 45 | 1 | TLC5925IDBQR | SSOP-24 | IC18 | Arduino Shield | 1 | 1694438 | TLC5925IDBQR | 1,520 | 1 | TLC5925IDBQR | 1,370 | | TLC5925IDBQR | 1,330 | |
| 46 | 2 | Si8641EC-B-IS1 | SOIC-16 | IC19, IC23 | Arduino Shield | 2 | 2423294 | Si8641EC-B-IS1 | 3,210 | 1 | Si8641EC-B-IS1 | 2,780 | | Si8641EC-B-IS1 | 2,720 | |
| 47 | 1 | LP2951D | SOIC-8 | IC2 | Power board | 2 | 1755066 | LP2951D | 0,573 | 1 | LP2951DR | 0,520 | | LP2951DR | 0,498 | |
| 48 | 2 | Si8651EC-B-IS1 | SOIC-16 | IC20, IC21 | Arduino Shield | 2 | 2423323 | Si8651EC-B-IS1 | 3,150 | 1 | Si8651EC-B-IS1 | 3,190 | | Si8651EC-B-IS1 | 3,060 | |
| 49 | 1 | LD1117ADT33TR | TO-252 | IC22 | Arduino Shield | 1 | 1087169 | LD1117DT33 | 0,358 | 5 | LD1117ADT33TR | 0,590 | | LD1117ADT33TR | 0,570 | |
| 50 | 1 | PCA21125T/Q900/1,1 | TSSOP-14 | IC24 | Arduino Shield | 1 | 2400445 | PCA21125T/Q900/1,1 | 1,870 | 1 | PCA21125T/Q900/1,1 | 1,610 | | PCA21125T/Q900/1,1 | 1,660 | |
| 51 | 1 | AT25256B | SOIC-8 | IC25 | Arduino Shield | 1 | 1841577 | AT25256B-SSHL-B | 1,190 | 1 | AT25256B-SSHL-B | 1,300 | | AT25256B-SSHL-B | 1,290 | |

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|--------------------|------------|-----------------|-----------------|-----|--------------------|-----------------|-----|-----|---------|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 6 | BAS316 | | | | | | | | | | | | | | |
| 9 | BAS316 | | | | | | | | | | | | | | |
| 31 | | 397-2914 | BAS316,115 | | 0,195 | 50 | BAS316,115 | 0,019 | 25 | 25 | TME | 0,019 € | 25 | 0,463 | |
| | 1 | BAT54S | 670-8797 | BAT54S | 0,202 | 10 | BAT54S.215 | 0,017 | 50 | 1 | TME | 0,017 € | 1 | 0,017 | |
| | 1 | SKL16 | | | | | | | | | | | | | |
| | 1 | SKL16 | 485-729 | PMEG4005AEA,115 | 0,325 | 20 | SKL16 | 0,095 | 5 | 2 | TME | 0,095 € | 10 | 0,952 | |
| 33 | 1 | STPS15H100 | 795-9075 | STPS15H100CB-TR | 0,924 | 5 | - | | | 2 | Mouser | 0,896 € | 2 | 1,792 | |
| 34 | 1 | 50mA, polyfuse | - | | | | SM005-60 | 0,092 | 10 | 1 | TME | 0,092 € | 1 | 0,092 | |
| 35 | 3 | 60R@100MHz | | | | | | | | | | | | | |
| | 3 | 60R@100MHz | | | | | | | | | | | | | |
| | 1 | 60R@100MHz | 669-4049 | 742792602 | 0,172 | 10 | LCBA-600 | 0,027 | 25 | 10 | TME | 0,027 € | 10 | 0,269 | |
| 36 | 1 | LTC3864EMSE#PBF | - | | | | - | | | 2 | Digikey | 3,960 € | 2 | 7,920 | |
| 37 | 1 | DAC8552IDGKTG4 | 662-1498 | DAC8552IDGKT | 6,524 | 1 | - | | | 2 | Farnell | 6,420 € | 2 | 12,840 | |
| 38 | 1 | ADG465BRTZ | - | | | | - | | | 2 | Farnell | 1,690 € | 2 | 3,380 | |
| 39 | 1 | TS5A9411DCKT | 459-459 | TS5A9411DCKT | 0,570 | 10 | - | | | 2 | Mouser | 0,534 € | 2 | 1,068 | |
| 40 | 1 | ADS1120IPWR | - | | | | - | | | 2 | Mouser | 6,100 € | 2 | 12,200 | |
| 41 | 1 | LP339D | 661-2659 | LP339DR | 0,175 | 10 | LP339D | 0,244 | 3 | 2 | RS | 0,175 € | 2 | 0,350 | |
| 42 | 1 | TPD4E002DRLR | 709-9060 | TPD4E002DRLR | 0,199 | 10 | - | | | 1 | RS | 0,199 € | 1 | 0,199 | |
| 43 | 1 | TPD2E001DZDR | 812-0171 | TPD2E001DZDR | 0,193 | 25 | - | | | 1 | RS | 0,193 € | 3 | 0,579 | |
| 44 | 1 | ADUM3160BRWZ | 796-9041 | ADUM3160BRWZ | 5,880 | 1 | ADUM3160BRWZ-RL | 4,040 | 1 | 1 | TME | 4,040 € | 1 | 4,040 | |
| 45 | 1 | TLC5925IDBQR | 812-3984 | TLC5925IDBQR | 1,109 | 10 | - | | | 1 | RS | 1,109 € | 1 | 1,109 | |
| 46 | 2 | Si8641EC-B-IS1 | 753-2438 | Out of stock | | | - | | | 2 | Mouser | 2,720 € | 2 | 5,440 | |
| 47 | 1 | LP2951D | 796-8095 | LP2951D | 0,613 | 5 | LP2951CM/NOPB | 0,495 | 1 | 2 | TME | 0,495 € | 2 | 0,990 | |
| 48 | 2 | Si8651EC-B-IS1 | 753-2497 | Si8651EC-B-IS1 | 3,038 | 1 | - | | | 2 | RS | 3,038 € | 2 | 6,076 | |
| 49 | 1 | LD1117ADT33TR | 686-9123 | LD1117ADT33TR | 0,294 | 10 | LD1117ADT33 | 0,315 | 3 | 1 | RS | 0,294 € | 1 | 0,294 | |
| 50 | 1 | PCA21125T/Q900/1,1 | - | | | | - | | | 1 | Digikey | 1,610 € | 1 | 1,610 | |
| 51 | 1 | AT25256B | 738-0079 | AT25256B-SSHL-B | 1,267 | 2 | 25AA256-I/SN | 1,290 | 1 | 1 | Farnell | 1,190 € | 1 | 1,190 | |

| # | Qty | Part name | Package | Reference designator | Board name | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|----|-----|--------------------------------------|---|--|----------------|-----|---------------------|---------------------|-----------------|-----|---------------------|-----------------|-----|--------------------|-----------------|-----|
| | | | | | | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 52 | 1 | W5500 | LQFP-48 | IC26 | Arduino Shield | 1 | - | | | | W5500 | 3,750 | | W5500 | 2,390 | |
| 53 | 1 | BC857BS | SOT-363 | IC27 | Arduino Shield | 1 | 1653608 | BC857BDW1T1G | 0,141 | 1 | BC857BDW1T1G | 0,210 | | BC857BDW1T1G | 0,199 | |
| 54 | 1 | TLC555 | SOIC-8 | IC28 | Arduino Shield | 1 | 9589880 | NE555DR | 0,300 | 1 | NE555D | 0,350 | | NE555D | 0,353 | |
| 55 | 1 | SN74LVC08APWR | SSOP-8 | IC29 | Arduino Shield | 1 | 1102978 | SN74LVC08APWR | 0,236 | 1 | 296-1221-1-ND | 0,350 | 1 | 595-SN74LVC08APWR | 0,335 | 1 |
| 56 | 1 | TL783CKTTR | TO-263-3 | IC3 | Power board | 2 | 2075436 | TL783CKTTR | 2,070 | 1 | 296-20778-1-ND | 2,270 | 1 | 595-TL783CKTTR | 2,220 | 1 |
| 57 | 1 | SN74LV1T34DBVR | SOT-23 | IC30 | Arduino Shield | 1 | 2499914 | SN74LV1T34DBVR | 0,457 | 1 | SN74LV1T34DBVR | 0,410 | | SN74LV1T34DBVR | 0,398 | |
| 58 | 1 | TPS3705-33D | SOIC-8 | IC31 | Arduino Shield | 1 | 2296066 | TPS3705-33D | 1,330 | 1 | TPS3705-33DR | 1,580 | | TPS3705-33D | 1,840 | |
| 59 | 1 | SN74LVC2G02DCTR | SSOP-8 | IC32 | Arduino Shield | 1 | 1236358 | SN74LVC2G02DC TR | 0,452 | 1 | SN74LVC2G02DCTR | 0,590 | | SN74LVC2G02DCTR | 0,570 | |
| 60 | 1 | LTC3260EMSE#PBF | MSOP-16 | IC4 | Power board | 2 | 2115838 | LTC3260EMSE#PBF | 7,660 | 1 | LTC3260EMSE#PBF-ND | 6,780 | 1 | - | | |
| 61 | 2 | TL072CD | SOIC-8 | IC5, IC6 | Power board | 4 | 1467663 | TL072CDT | 0,252 | 5 | TL072CDT | 0,430 | | TL072CDT | 0,416 | |
| 62 | 1 | LTC2050HVCS8#PBF | SOIC-8 | IC7 | Power board | 2 | 1330903 | LTC2050HVCS8#PBF | 2,110 | 1 | LTC2050HVCS8#PBF-ND | 2,850 | 1 | - | | |
| 63 | 1 | MCP23S17-E/SS | SSOP-28 | IC8 | Power board | 2 | 1467675 | MCP23S17-E/SS | 1,280 | 1 | MCP23S17-E/SS-ND | 1,270 | 1 | 579-MCP23S17-E/SS | 1,320 | 1 |
| 64 | 1 | REF5025AIDG4 | SOIC-8 | IC9 | Power board | 2 | 1439622 | REF5025AIDG4 | 3,720 | 1 | REF5025AIDR | 2,990 | | REF5025AIDR | 2,910 | |
| 65 | 1 | 1-726388-2 | THT | J2 | Arduino board | 1 | 2308760 | 1-726388-2 | 0,085 | 10 | A121493-ND | 0,210 | 1 | 571-1-726388-2 | 0,235 | 1 |
| 66 | 2 | RT424005 | THT | K_PAR, K_SER | Arduino Shield | 2 | | | | | | | | | | |
| | 1 | RT424005 | THT | K_DOUT2 | AUX PS | 1 | | | | | | | | | | |
| | | | | | | 3 | 9950168 | G2RL-2 5DC | 3,940 | 1 | RTE24005 | 2,920 | | RTE24005 | 2,850 | |
| 67 | 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 | |
| 68 | 1 | SK 145/37,5 | THT Heatsink for installation of Q21 and Q22 like on the picture here . | KK1 | AUX PS | 1 | 4621414 | SK 145/37,5 STS-220 | 3,530 | 1 | - | | | - | | |
| | 1 | M3 nut | For mounting Q21, Q22 to KK1 | | AUX PS | 1 | - | | | | | | | | | |
| | 1 | Washer externally serrated M3, D=6mm | For mounting Q21, Q22 to KK1 | | AUX PS | 1 | 7096471 | 6797/3.0 | 1,870 | 100 | | | | | | |
| | 1 | M3x8, black finish | For mouniting Q21, Q22 to KK1 | | AUX PS | 1 | - | | | | | | | | | |
| 69 | 1 | RN112-4-02 | THT, solder on the bottom layer! | L1 | Power board | 2 | 1191474 | RN112-4-02 | 3,240 | 1 | 817-1535-ND | 2,510 | 1 | 631-RN112-4/02 | 2,290 | 1 |
| 70 | 1 | 470uH | SMD; 7.3mm x 7.3mm | L5 | AUX PS | 1 | 2455059 | SRR0745A-471M | 0,918 | 1 | SRR0745A-471M | 0,770 | | SRR0745A-471M | 0,814 | |
| 71 | 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 | |
| 72 | 2 | IHLP2020CZER3R3M11 | SMD; 5.49mm x 5.18mm | L3, L4 | Power board | 4 | 1741325 | IHLP2020CZER3R3M11 | 1,410 | 5 | IHLP2020CZER3R3M11 | 2,160 | | IHLP2020CZER3R3M11 | 1,030 | |
| 73 | 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 | |
| 74 | 2 | HSMG-C170 | 0805 Green | LED_O1, LED_O2 | Arduino Shield | 2 | 5790852 | HSMG-C170 | 0,204 | 10 | HSMG-C170 | 0,490 | | 630-HSMG-C170 | 0,060 | |
| 75 | 5 | HSMH-C170 | 0805 Red | LED_CC1, LED_CC2, LED_PROG1, LED_PROG2, LED_SP | Arduino Shield | 5 | 5790840 | HSMH-C170 | 0,488 | 5 | HSMH-C170 | 0,440 | | 630-HSMH-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 | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 52 | 1 | W5500 | - | | | | W5500 | 2,190 | 1 | 1 | | TME | 2,190 € | 1 | 2,190 |
| 53 | 1 | BC857BS | 690-0101 | BC857BDW1T1 G | 0,022 | 25 | BC857BS | 0,027 | 25 | 1 | | RS | 0,022 € | 1 | 0,022 |
| 54 | 1 | TLC555 | 662-4006 | TLC555CDR | 0,218 | 10 | TLC555CDR | 0,384 | 3 | 1 | | RS | 0,218 € | 1 | 0,218 |
| 55 | 1 | SN74LVC08APWR | 662-8588 | SN74LVC08AP WR | 0,240 | 10 | - | | | 1 | | Farnell | 0,236 € | 1 | 0,236 |
| 56 | 1 | TL783CKTTR | 660-7455 | TL783CKTTR | 1,904 | 5 | - | | | 2 | | RS | 1,904 € | 2 | 3,808 |
| 57 | 1 | SN74LV1T34DBVR | - | | | | - | | | 1 | | Mouser | 0,398 € | 1 | 0,398 |
| 58 | 1 | TPS3705-33D | 662-3331 | TPS3705-33D | 0,528 | 5 | - | | | 1 | | RS | 0,528 € | 1 | 0,528 |
| 59 | 1 | SN74LVC2G02DCTR | - | | | | SN74LVC2G02DCTR | 0,252 | 5 | 1 | | TME | 0,252 € | 1 | 0,252 |
| 60 | 1 | LTC3260EMSE#PBF | 851-6768 | LTC3260EMSE# PBF | 5,800 | 1 | - | | | 2 | | RS | 5,800 € | 2 | 11,600 |
| 61 | 2 | TL072CD | 857-907P | TL072CD | 0,252 | 1 | TL072CD | 0,164 | 3 | 4 | | TME | 0,164 € | 4 | 0,654 |
| 62 | 1 | LTC2050HVCS8#PBF | 822-6746 | LTC2050HVCS8 #PBF-ND | 2,155 | 2 | - | | 1 | 2 | | Farnell | 2,110 € | 2 | 4,220 |
| 63 | 1 | MCP23S17-E/SS | 669-6452 | MCP23S17- E/SS | 1,168 | 5 | MCP23S17-E/SS | 1,290 | 1 | 2 | | RS | 1,168 € | 2 | 2,336 |
| 64 | 1 | REF5025AIDG4 | 404-304 | REF5025AID | 3,500 | 1 | - | | | 2 | | Mouser | 2,910 € | 2 | 5,820 |
| 65 | 1 | 1-726388-2 | 680-5772 | 1-726388-2 | 0,060 | 100 | 1-726388-2 | 0,082 | 10 | 1 | | RS | 0,060 € | 1 | 0,060 |
| 66 | 2 | RT424005 | | | | | | | | | | | | | |
| | 1 | RT424005 | | | | | | | | | | | | | |
| | | | 198-6898 | RTE24005 | 4,676 | 1 | RT424005 | 1,260 | 1 | 3 | | TME | 1,260 € | 3 | 3,780 |
| 67 | 2 | G6K-2F-5DC | 683-9633 | G6K2F5DC | 4,928 | 1 | G6K-2F-5DC | 2,490 | 1 | 2 | | TME | 2,490 € | 2 | 4,980 |
| 68 | 1 | SK 145/37,5 | - | | | | - | | | 1 | | Farnell | 3,530 € | 1 | 3,530 |
| | 1 | M3 nut | | | | | B3/BN117 | 0,005 | 100 | | | TME | 0,005 € | 1 | 0,005 |
| | 1 | Washer externally serrated M3, D=6mm | | | | | B3/BN789 | 0,008 | 100 | | | TME | 0,008 € | 1 | 0,008 |
| | 1 | M3x8, black finish | | | | | M3X8/D7985B | 0,019 | 100 | | | TME | 0,019 € | 1 | 0,019 |
| 69 | 1 | RN112-4-02 | 219-3261 | RN112-4-02 | 3,160 | 1 | - | | | 2 | | Mouser | 2,290 € | 2 | 4,580 |
| 70 | 1 | 470uH | 770-1182 | DR74-471-R | 0,977 | 5 | DE0704-470 | 0,254 | 5 | 1 | | TME | 0,254 € | 1 | 0,254 |
| 71 | 1 | 33uH - 7443551331 | - | | | | - | | | 2 | | Mouser | 2,970 € | 2 | 5,940 |
| 72 | 2 | IHLP2020CZER3R3M11 | 748-6912 | IHLP2020CZER 3R3M01 | 1,518 | 5 | - | | | 4 | | Mouser | 1,030 € | 4 | 4,120 |
| 73 | 1 | TFT_320QVT | 681-6851 | M20-7832046 | 3,027 | 5 | ZL262-40DG | 0,329 | 2 | 1 | | TME | 0,329 € | 2 | 0,658 |
| 74 | 2 | HSMG-C170 | 435-6767 | HSMG-C170 | 0,206 | 50 | HSMG-C170 | 0,095 | 5 | 2 | | Mouser | 0,060 € | 2 | 0,120 |
| 75 | 5 | HSMH-C170 | 486-0468 | HSMH-C170 | 0,188 | 25 | HSMH-C170 | 0,057 | 10 | 5 | | TME | 0,057 € | 5 | 0,287 |

| # | Qty | Part name | Package | Reference designator | Board name | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|----|-----|------------------------|--|----------------------------------|----------------|-----|---------------------|------------------|-----------------|-----|---------------------|-----------------|-----|------------------|-----------------|-----|
| | | | | | | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 76 | 1 | HSMD-C170 | 0805 Orange | LED_PWR | Arduino Shield | 1 | 5790864 | HSMD-C170 | 0,240 | 5 | HSMD-C170 | 0,440 | | 630-HSMD-C170 | 0,060 | |
| 77 | 4 | HSMY-C170 | 0805 Yellow | LED_CV1, LED_CV2, LED_S1, LED_S2 | Arduino Shield | 4 | 5790876 | HSMY-C170 | 0,330 | 5 | HSMY-C170 | 0,440 | | 630-HSMY-C170 | 0,060 | |
| 78 | 1 | 10K/Beta:3570K | 0805 | NTC1 | Power board | 2 | 1612623 | NTCS0805E3103JMT | 0,413 | 1 | NTCS0805E3103JMT | 0,250 | | NTCS0805E3103JMT | 0,145 | |
| 79 | 1 | MOC3052 | SMD; SDIP-6 | OK1 | AUX PS | 1 | 2453236 | MOC3052SM | 0,884 | 1 | MOC3052SM | 0,910 | | MOC3052SM | 0,750 | |
| 80 | 1 | MOC3062 | SMD; SDIP-6 | OK2 | AUX PS | 1 | 2322554 | MOC3062SR2VM | 0,977 | 1 | MOC3062SM | 1,110 | | MOC3062SM | 0,924 | |
| 81 | 2 | HCPL-181 | SOIC-4 | OK3, OK4 | AUX PS | 2 | | | | | | | | | | |
| | 2 | HCPL-181 | SOIC-4 | OK5, OK6 | Arduino Shield | 2 | | | | | | | | | | |
| | | | | | | 4 | 1244525 | HCPL-181-000E | 0,342 | 1 | HCPL-181-000E | 0,560 | | HCPL-181-000E | 0,150 | |
| 82 | 2 | IRFR5305 | TO-252 | Q1, Q7 | Power board | 4 | 8649820 | IRFR5305PBF | 0,994 | 1 | IRFR5305PBF-ND | 0,810 | | 942-IRFR5305PBF | 0,805 | |
| | | Option #1: SPD30P06P | TO-252 | Q1, Q7 | Power board | 0 | 2480881 | SPD30P06P G | 0,980 | 1 | SPD30P06P GCT-ND | 1,030 | | 726-SPD30P06PG | 1,020 | |
| | | Option #2: SUD19P06-60 | TO-252 | Q1, Q7 | Power board | 0 | 2101465 | SUD19P06-60-GE3 | 1,590 | 5 | SUD19P06-60-GE3 | 0,950 | | SUD19P06-60-GE3 | 1,070 | |
| 83 | 5 | MMBT5551 | SOT-23 | Q11, Q12, Q17, Q19, Q20 | Power board | 10 | 1459109 | MMBT5551LT1G | 0,167 | 5 | MMBT5551LT1G | 0,180 | | MMBT5551LT1G | 0,163 | |
| 84 | 4 | MMBT5401 | SOT-23 | Q2, Q9, Q10, Q18 | Power board | 8 | 1459108 | MMBT5401LT1G | 0,167 | 10 | MMBT5401LT1G | 0,180 | | MMBT5401LT1G | 0,163 | |
| 85 | 2 | BTA26-600 | THT | Q21, Q22 | AUX PS | 2 | 1057286 | BTA26-600BRG | 2,840 | 1 | BTA26-600BRG | 2,930 | | BTA26-600BRG | 3,110 | |
| 86 | 1 | IRLL2705PBF | SOT-223 | Q13 | Power board | 2 | | | | | | | | | | |
| | 1 | IRLL2705PBF | SOT-223 | Q23 | AUX PS | 1 | | | | | | | | | | |
| | | | | | | 3 | 8651230 | IRLL2705PBF | 0,578 | 1 | IRLL2705PBF-ND | 0,630 | 1 | 942-IRLL2705PBF | 0,622 | 1 |
| 87 | 1 | IRFR48ZPB | TO-252 | Q14 | Power board | 2 | 1013388 | IRFR48ZPBF | 1,310 | 1 | IRFR48ZTRLPBF CT-ND | 1,090 | 1 | 942-IRFR48ZPBF | 1,110 | 1 |
| 88 | 5 | IRLML2246TRPBF | SOT-23 | Q26, Q27, Q28, Q29, Q31 | Arduino Shield | 5 | | | | | | | | | | |
| | 1 | IRLML2246TRPBF | SOT-23 | Q15 | Power board | 2 | | | | | | | | | | |
| | | | | | | 7 | 1888166 | IRLML2246TRPBF | 0,287 | 1 | IRLML2246TRPB F | 0,400 | | IRLML2246TRPB F | 0,389 | |
| 89 | 2 | 2N7002 | SOT-23 | Q24, Q25 | AUX PS | 2 | | | | | | | | | | |
| | 2 | 2N7002 | SOT-23 | Q3, Q16 | Power board | 4 | | | | | | | | | | |
| | 3 | 2N7002 | SOT-23 | Q30, Q32, Q33 | Arduino Shield | 3 | | | | | | | | | | |
| | | | | | | 9 | 1713823 | 2N7002-7-F | 0,135 | 5 | 2N7002LT1G | 0,130 | | 2N7002LT1G | 0,118 | |
| 90 | 1 | IRFP250N | THT, solder on the bottom layer! See pic here and here | Q4 | Power board | 2 | 8649260 | IRFP250NPBF | 2,080 | 1 | IRFP250NPBF | 1,870 | | IRFP250NPBF | 1,870 | |
| 91 | 1 | BC857C | SOT-23 | Q5 | Power board | 2 | 8734771 | BC857C,215 | 0,022 | 10 | BC857CLT1G | 0,120 | | BC857CLT1G | 0,109 | |
| 92 | 2 | BCP56-16.115 | SOT-223 | Q6, Q8 | Power board | 4 | 1081258 | BCP56-16,115 | 0,256 | 5 | BCP56-16T1G | 0,360 | | BCP56-16,115 | 0,340 | |
| 93 | 4 | 0R | 0805 | JP1, JP2, JP3, R56 | Power board | 8 | | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|----|---------------|--------------------------|----------|-----------------|--------------|-----|--------------------|--------------|-----|---------|--|-----------------------------|---------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 76 | 1 | HSMD-C170 | 486-0525 | HSMD-C170 | 0,231 | 25 | HSMD-C170 | 0,059 | 10 | 1 | | TME | 0,059 € | 1 | 0,059 |
| 77 | 4 | HSMY-C170 | 486-0519 | HSMY-C170 | 0,248 | 25 | HSMY-C170 | 0,060 | 10 | 4 | | Mouser | 0,060 € | 4 | 0,240 |
| 78 | 1 | 10K/Beta:3570K | 697-4601 | NB12K00103JB B | 0,392 | 5 | NTCS0805E3103JMT | 0,190 | 5 | 2 | | Mouser | 0,145 € | 2 | 0,290 |
| 79 | 1 | MOC3052 | 761-3690 | MOC3052SM | 0,739 | 5 | MOC3052SR2VM | 0,380 | 2 | 1 | | TME | 0,380 € | 1 | 0,380 |
| 80 | 1 | MOC3062 | 806-6064 | MOC3062SM | 0,718 | 10 | MOC3062XSM | 0,410 | 1 | 1 | | TME | 0,410 € | 1 | 0,410 |
| 81 | 2 | HCPL-181 | | | | | | | | | | | | | |
| | 2 | HCPL-181 | | | | | | | | | | | | | |
| | | | 693-5277 | HCPL-181-000E | 0,343 | 10 | HCPL-181-000E | 0,250 | 2 | 4 | | Mouser | 0,150 € | 4 | 0,600 |
| 82 | 2 | IRFR5305 | 543-2496 | IRFR5305PBF | 0,994 | 1 | IRFR5305PBF | 0,540 | 1 | 4 | | TME | 0,540 € | 2 | 1,080 |
| | | Option #1: SPD30P06P | 898-6864 | SPD30P06P G | 0,861 | 1 | SPD30P06PGBTMA1 | 0,780 | 1 | | | | | | |
| | | Option #2: SUD19P06-60 - | | | | | - | | | | | | | | |
| 83 | 5 | MMBT5551 | 545-0400 | MMBT5551LT1G | 0,129 | 10 | MMBT5551 | 0,020 | 25 | 10 | | TME | 0,020 € | 25 | 0,510 |
| 84 | 4 | MMBT5401 | 545-0393 | MMBT5401LT1G | 0,151 | 10 | MMBT5401 | 0,021 | 25 | 8 | | TME | 0,021 € | 25 | 0,513 |
| 85 | 2 | BTA26-600 | 714-0515 | BTA26-600BRG | 3,038 | 1 | BTA26-600BRG | 2,540 | 1 | 2 | | TME | 2,540 € | 2 | 5,080 |
| 86 | 1 | IRLL2705PBF | | | | | | | | | | | | | |
| | 1 | IRLL2705PBF | | | | | | | | | | | | | |
| | | | 540-9907 | IRLL2705PBF | 0,260 | 1 | IRLL2705PBF | 0,307 | 1 | 3 | | RS | 0,260 € | 3 | 0,780 |
| 87 | 1 | IRFR48ZPB | 688-7055 | IRFR48ZPBF | 1,234 | 1 | IRFR48ZPBF | 0,540 | 1 | 2 | | TME | 0,540 € | 2 | 1,080 |
| 88 | 5 | IRLML2246TRPBF | | | | | | | | | | | | | |
| | 1 | IRLML2246TRPBF | | | | | | | | | | | | | |
| | | | 760-4432 | IRLML2246TRP BF | 0,322 | 5 | IRLML2246TRPBF | 0,100 | 5 | 7 | | TME | 0,100 € | 7 | 0,700 |
| 89 | 2 | 2N7002 | | | | | | | | | | | | | |
| | 2 | 2N7002 | | | | | | | | | | | | | |
| | 3 | 2N7002 | | | | | | | | | | | | | |
| | | | 545-0012 | 2N7002LT1G | 0,108 | 50 | 2N7002LT1G | 0,019 | 25 | 9 | | TME | 0,019 € | 25 | 0,475 |
| 90 | 1 | IRFP250N | 541-0042 | IRFP250NPBF | 2,100 | 1 | IRFP250NPBF | 1,060 | 1 | 2 | | TME | 1,060 € | 2 | 2,120 |
| 91 | 1 | BC857C | 690-0105 | BC857CLT1G | 0,102 | 25 | BC857C-DIO | 0,020 | 25 | 2 | | TME | 0,020 € | 2 | 0,040 |
| 92 | 2 | BCP56-16.115 | 773-7633 | BCP56-16T3G | 0,242 | 10 | BCP56-16.115 | 0,106 | 5 | 4 | | TME | 0,106 € | 4 | 0,424 |
| 93 | 4 | 0R | | | | | | | | | | | | | |

EEZ PSU H24005 BOM (r5B12, 2017-03-12)
Project source code at <https://github.com/eez-open>

| # | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | | | |
|-----|-----|-------------|--|--|------------------------------|---------------------|---------|------------------|-----------------|----------|------------------|-------------------|--------|------------------|------------------|-------|--|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | |
| | 5 | 0R | 0805 | JP4, JP5, JP6, JP7, JP8 | Arduino Shield | 5 | | | | | | | | | | | |
| | | | | | | 13 | 9233750 | RC0805JR-070RL | 0,010 | 10 | RC2012J000CS | 0,014 | | RC0805JR-070RL | 0,012 | | |
| | | | | | | | | | | | | | | | | | |
| | 94 | 6 | 100K 1% | 0805 | R12, R15, R22, R23, R73, R75 | Power board | 12 | | | | | | | | | | |
| | 1 | 100K 1% | 0805 | R123 | AUX PS | 1 | | | | | | | | | | | |
| | 2 | 100K 1% | 0805 | R135, R146 | Arduino Shield | 2 | | | | | | | | | | | |
| | | | | | | 15 | 2352619 | RCV0805100KFKE A | 0,080 | 10 | RC0805FR-07100KL | 0,019 | | RC0805FR-07100KL | 0,015 | | |
| | | | | | | | | | | | | | | | | | |
| | 95 | 2 | 100K 0.1% | 0805 | R43, R53 | Power board | 4 | 1577686 | ERA6AEB104V | 0,205 | 5 | RT0805BRD0710 0KL | 0,350 | | CPF0805B100KE | 0,095 | |
| | 96 | 1 | 100R 1% | 0805 | R116 | AUX PS | 1 | | | | | | | | | | |
| | 1 | 100R 1% | 0805 | R155 | Arduino Shield | 1 | | | | | | | | | | | |
| | 3 | 100R 1% | 0805 | R7, R8, R42 | Power board | 6 | | | | | | | | | | | |
| | | | | | | 8 | 9332375 | MC01W08051100R | 0,002 | 10 | RC0805FR-07100RL | 0,019 | | RC0805FR-07100RL | 0,015 | | |
| | | | | | | | | | | | | | | | | | |
| | 97 | 2 | 10K 1% | 0805 | R121, R122 | AUX PS | 2 | | | | | | | | | | |
| | 5 | 10K 1% | 0805 | R139, R145, R149, R157, R165 | Arduino Shield | 5 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 18 | 10K 1% | 0805 | R3, R10, R11, R19, R27, R40, R49, R51, R58, R69, R72, R74, R82, R91, R94, R95, R98, R102 | Power board | 36 | | | | | | | | | | | |
| | | | | | | 43 | 9237755 | RC0805FR-0710KL | 0,011 | 10 | RC0805FR-0710KL | 0,019 | | RC0805FR-0710KL | 0,015 | | |
| | | | | | | | | | | | | | | | | | |
| | 1 | 10R 1% | 1206 | R143 | Arduino Shield | 1 | | | | | | | | | | | |
| | 3 | 10R 1% | 1206 | R9, R33, R81 | Power board | 6 | | | | | | | | | | | |
| | | | | | | 7 | 9236643 | RC1206FR-0710RL | 0,017 | 10 | RC1206FR-0710RL | 0,029 | | RC1206FR-0710RL | 0,022 | | |
| | | | | | | | | | | | | | | | | | |
| | 99 | 1 | 12K4 1% | 0805 | R144 | Arduino Shield | 1 | 2141850 | MC01W0805112K4 | 0,002 | 10 | RC0805FR-0712K4L | 0,090 | | RC0805FR-0712K4L | 0,091 | |
| 100 | 1 | 18-22R / 7W | THT, RM 5mm, radial, max. Height 40 mm | R103 | AUX PS | 1 | 1687978 | SQM7-22RJI | 0,474 | 1 | SQMW722RJ | 0,590 | | 280-PRM7-20-RC | 0,378 | | |
| 101 | 2 | 16K 1% | 0805 | R17, R34 | Power board | 4 | 9332677 | MC01W0805116K | 0,002 | 10 | RC0805FR-0716KL | 0,019 | | RC0805FR-0716KL | 0,015 | | |
| 102 | 4 | 180R 1% | 0805 | R134, R147, R148, R150 | Arduino Shield | 4 | 2447583 | MCWR08X1800FT L | 0,006 | 10 | RC0805FR-07180RL | 0,019 | | RC0805FR-07180RL | 0,015 | | |
| 103 | 2 | 1K 1% | 0805 | R114, R120 | AUX PS | 2 | | | | | | | | | | | |
| | 2 | 1K 1% | 0805 | R163, R164 | Arduino Shield | 2 | | | | | | | | | | | |
| | 5 | 1K 1% | 0805 | R28, R38, R68, R78, R92 | Power board | 10 | | | | | | | | | | | |
| | | | | | | 14 | 1099800 | WCR0805-1K0FI | 0,018 | 10 | RC0805FR-071KL | 0,019 | | RC0805FR-071KL | 0,015 | | |
| | | | | | | | | | | | | | | | | | |
| 104 | 2 | 1K8 1% | 0805 | R24, R55 | Power board | 4 | | | | | | | | | | | |
| | 2 | 1K8 1% | 0805 | R130, R151 | Arduino Shield | 2 | | | | | | | | | | | |
| | | | | | | 6 | 2447595 | MCWR08X1801FT L | 0,006 | 10 | RC0805FR-071K8L | 0,019 | | RC0805FR-071K8L | 0,015 | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|-----|---------------|-------------|----------|-----------------------|-----------------|-----|------------------------|-----------------|-----|---------|----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 94 | 5 | 0R | | | | | | | | | | | | | |
| | | | 679-0800 | CRCW08050000 Z0EA | 0,020 | 50 | SMD0805-0R | 0,006 | 100 | | 13 | TME | 0,006 € | 15 | 0,090 |
| | | | | | | | | | | | | | | | |
| 95 | 6 | 100K 1% | | | | | | | | | | | | | |
| | 1 | 100K 1% | | | | | | | | | | | | | |
| | 2 | 100K 1% | | | | | | | | | | | | | |
| 96 | | | 223-0691 | CRG0805F100K | 0,007 | 50 | SMD0805-100K-1% | 0,008 | 100 | | 15 | RS | 0,007 € | 15 | 0,105 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 97 | 2 | 100K 0.1% | 666-2673 | CPF0805B100K E | 0,112 | 5 | RN73C2A100KBTDF | 0,513 | 2 | | 4 | Mouser | 0,095 € | 4 | 0,380 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 98 | 1 | 100R 1% | | | | | | | | | | | | | |
| | 1 | 100R 1% | | | | | | | | | | | | | |
| | 3 | 100R 1% | | | | | | | | | | | | | |
| 99 | | | 679-0807 | CRCW0805100 RFKEA | 0,031 | 50 | RC0805FR-07100R | 0,008 | 100 | | 8 | Farnell | 0,002 € | 10 | 0,020 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 100 | 2 | 10K 1% | | | | | | | | | | | | | |
| | 5 | 10K 1% | | | | | | | | | | | | | |
| | 18 | 10K 1% | | | | | | | | | | | | | |
| 101 | | | 223-0562 | CRG0805F10K | 0,021 | 50 | RC0805FR-0710K | 0,008 | 100 | | 43 | TME | 0,008 € | 50 | 0,385 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 102 | 1 | 10R 1% | | | | | | | | | | | | | |
| | 3 | 10R 1% | | | | | | | | | | | | | |
| | | | 740-9085 | CR1206-FX- 10R0ELF | 0,028 | 50 | CRCW120610R0FKTA BC | 0,014 | 100 | | 7 | TME | 0,014 € | 10 | 0,137 |
| 103 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 104 | 1 | 12K4 1% | 679-0863 | CRCW080512K 4FKEA | 0,008 | 50 | - | | | | 1 | Farnell | 0,002 € | 10 | 0,023 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 105 | 1 | 18-22R / 7W | 199-8087 | SQMW722RJ | 0,725 | 5 | - | | | | 1 | Mouser | 0,378 € | 1 | 0,378 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 106 | 2 | 16K 1% | 679-0920 | CRCW080516K 0FKEA | 0,014 | 50 | SMD0805-16K-1% | 0,008 | 100 | | 4 | Farnell | 0,002 € | 10 | 0,020 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 107 | 4 | 180R 1% | 223-0326 | CRG0805F180R | 0,006 | 50 | SMD0805-180R-1% | 0,008 | 100 | | 4 | Farnell | 0,024 € | 10 | 0,240 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 108 | 2 | 1K 1% | | | | | | | | | | | | | |
| | 2 | 1K 1% | | | | | | | | | | | | | |
| | 5 | 1K 1% | | | | | | | | | | | | | |
| 109 | | | 223-0427 | CRG0805F1K0 | 0,013 | 50 | RC0805FR-071K | 0,008 | 100 | | 14 | TME | 0,008 € | 15 | 0,116 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 110 | 2 | 1K8 1% | | | | | | | | | | | | | |
| | 2 | 1K8 1% | | | | | | | | | | | | | |
| | | | 679-1033 | CRCW08051K8 0FKEA | 0,011 | 50 | SMD0805-1K8-1% | 0,008 | 100 | | 6 | Farnell | 0,006 € | 10 | 0,063 |

| # | | | | | | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|-----|-----|--------------|---------|--|----------------|-----|---------------------|-----------------|-----------------|-----|-------------------|-----------------|-----|-----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 105 | 2 | 1R 1% | 0805 | R129, R132 | Arduino Shield | 2 | | | | | | | | | | |
| | 1 | 1R 1% | 0805 | R6 | Power board | 2 | | | | | | | | | | |
| | | | | | | 4 | 2141629 | MC01W080511R0 | 0,002 | 10 | RC0805FR-071RL | 0,090 | | RC0805FR-071RL | 0,091 | |
| 106 | 2 | 24K 0.1% | 0805 | R44, R54 | Power board | 4 | 1670195 | ERA3AEB243V | 0,184 | 10 | YAG1843CT-ND | 0,330 | 1 | 660-RN732ATTD2402 B25 | 0,292 | 1 |
| 107 | 2 | 22R 1% | 0805 | R124, R125 | AUX PS | 2 | 2447609 | MCWR08X22R0FT L | 0,007 | 10 | 0603YC104KAT2 A | 0,090 | 1 | 603-RC0805FR-0722RL | 0,094 | 1 |
| 108 | 11 | 220R 1% | 0805 | R21, R31, R35, R36, R41, R47, R57, R76, R77, R79, R80 | Power board | 22 | | | | | | | | | | |
| | 3 | 220R 1% | 0805 | R110, R113, R118 | AUX PS | 3 | | | | | | | | | | |
| | 1 | 220R 1% | 0805 | R166 | Arduino Shield | 1 | | | | | | | | | | |
| | | | | | | 26 | 1099795 | WCR0805-220RFI | 0,024 | 10 | RC0805FR-07220RL | 0,019 | | RC0805FR-07220RL | 0,015 | |
| | | | | | | | | | | | | | | | | |
| 109 | 2 | 2K 0.1% | 0805 | R60, R70 | Power board | 4 | 1670231 | ERA6AEB202V | 0,259 | 10 | P2.0KDACT-ND | 0,370 | 1 | 667-ERA- | 0,547 | 1 |
| 110 | 3 | 2K2 1% | 0805 | R106, R107, R119 | AUX PS | 3 | | | | | | | | | | |
| | 9 | 2K2 1% | 0805 | R29, R30, R32, R45, R59, R61, R64, R90, R93 | Power board | 18 | | | | | | | | | | |
| | | | | | | 21 | 9237534 | RC0805FR-072K2L | 0,011 | 10 | RC0805FR-072K2L | 0,019 | | RC0805FR-072K2L | 0,015 | |
| | | | | | | | | | | | | | | | | |
| 111 | 1 | 2R2 5% / 2W | 2512 | R26 | Power board | 2 | 1376975 | RC2512JK-7W2R2L | 0,557 | 10 | CRM2512-JW-2R2ELF | 0,320 | | CRM2512-JW-2R2ELF | 0,341 | |
| 112 | 3 | 330K 1% | 0805 | R13, R20, R25 | Power board | 6 | 9333070 | MC01W08051330K | 0,002 | 10 | RC0805FR-07330KL | 0,090 | 1 | RC0805FR-07330KL | 0,091 | 1 |
| 113 | 2 | 330R 1% | 0805 | R83, R101 | Power board | 4 | 9333037 | MC01W08051330R | 0,002 | 10 | RC0805FR-07330RL | 0,090 | | RC0805FR-07330RL | 0,091 | |
| 114 | 4 | 330R 5% / 2W | 2512 | R104, R105, R108, R111 | AUX PS | 4 | 1265196 | 3520330RJT | 0,122 | 10 | RHC2512FT330R | 0,760 | | 3521330RFT | 0,580 | |
| 115 | 2 | 470R 1% | 0805 | R37, R50 | Power board | 4 | 1099798 | WCR0805-470RFI | 0,024 | 10 | RC0805FR-07470RL | 0,019 | | RC0805FR-07470RL | 0,015 | |
| 116 | 2 | 47K 1% | 0805 | R154, R158 | Arduino Shield | 2 | | | | | | | | | | |
| | 7 | 47K 1% | 0805 | R5, R66, R67, R85, R86, R87, R100 | Power board | 14 | | | | | | | | | | |
| | | | | | | 16 | 2447664 | MCWR08X4702FT L | 0,006 | 10 | RC0805FR-0747KL | 0,019 | | RC0805FR-0747KL | 0,015 | |
| | | | | | | | | | | | | | | | | |
| 117 | 11 | 4K7 1% | 0805 | R126, R127, R128, R131, R133, R136, R137, R156, R159, R161, R162 | Arduino Shield | 11 | | | | | | | | | | |
| | 1 | 4K7 1% | 0805 | R16 | Power board | 2 | | | | | | | | | | |
| | | | | | | 13 | 9333266 | MC01W080514K7 | 0,002 | 10 | RC0805FR-074K7L | 0,019 | | RC0805FR-074K7L | 0,015 | |
| | | | | | | | | | | | | | | | | |
| 118 | 4 | 49R9 1% | 0805 | R138, R140, R141, R142 | Arduino Shield | 4 | | | | | | | | | | |
| | 2 | 49R9 1% | 0805 | R109, R112 | AUX PS | 2 | | | | | | | | | | |
| | | | | | | 6 | 2141727 | MC01W0805149R9 | 0,002 | 10 | RC0805FR-0749R9L | 0,019 | | RC0805FR-0749R9L | 0,015 | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|-----|---------------|--------------|----------|-----------------------|-----------------|-----|--------------------|-----------------|-----|---------|---------|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 105 | 2 | 1R 1% | | | | | | | | | | | | | |
| | 1 | 1R 1% | | | | | | | | | | | | | |
| | | | 721-5631 | ERJ6BQF1R0V | 0,246 | 5 | RC0805FR-071R | 0,009 | 100 | 4 | Farnell | 0,002 € | 10 | | 0,022 |
| 106 | 2 | 24K 0.1% | | | | | AR0805-24K-0.1% | 0,111 | 10 | 4 | TME | 0,111 € | 4 | | 0,442 |
| 107 | 2 | 22R 1% | 223-0203 | CRG0805F22R | 0,006 | 50 | SMD0805-22R-1% | 0,008 | 100 | 2 | RS | 0,006 € | 2 | | 0,012 |
| 108 | 11 | 220R 1% | | | | | | | | | | | | | 0,000 |
| | 3 | 220R 1% | | | | | | | | | | | | | |
| | 1 | 220R 1% | | | | | | | | | | | | | |
| | | | 223-0332 | CRG0805F220R | 0,024 | 50 | RC0805FR-07220R | 0,007 | 100 | 26 | TME | 0,007 € | 50 | | 0,357 |
| 109 | 2 | 2K 0.1% | 828-0554 | ERA6AEB202V | 0,230 | 5 | AR0805-2K-0.1% | 0,113 | 10 | 4 | TME | 0,113 € | 4 | | 0,452 |
| 110 | 3 | 2K2 1% | | | | | | | | | | | | | |
| | 9 | 2K2 1% | | | | | | | | | | | | | |
| | | | 679-1207 | CRCW08052K2 0FKEA | 0,027 | 50 | SMD0805-2K2-1% | 0,008 | 100 | 21 | TME | 0,008 € | 30 | | 0,242 |
| 111 | 1 | 2R2 5% / 2W | 720-3231 | CRM2512-JW- 2R2ELF | 0,406 | 5 | WF25P-2R2-5% | 0,042 | 50 | 2 | TME | 0,042 € | 2 | | 0,084 |
| 112 | 3 | 330K 1% | 679-1272 | CRCW0805330 KFKEA | 0,024 | 50 | RC0805FR-07330K | 0,007 | 100 | 6 | Farnell | 0,002 € | 10 | | 0,020 |
| 113 | 2 | 330R 1% | 740-9022 | CR0805-FX- 3300GLF | 0,025 | 50 | RC0805FR-07330R | 0,007 | 100 | 4 | Farnell | 0,002 € | 10 | | 0,020 |
| 114 | 4 | 330R 5% / 2W | 755-1224 | 3521330RFT | 0,182 | 10 | WF25P-330R-5% | 0,042 | 50 | 4 | TME | 0,042 € | 10 | | 0,419 |
| 115 | 2 | 470R 1% | 223-0376 | CRG0805F470R | 0,024 | 50 | RC0805FR-07470R | 0,007 | 100 | 4 | TME | 0,007 € | 10 | | 0,073 |
| 116 | 2 | 47K 1% | | | | | | | | | | | | | |
| | 7 | 47K 1% | | | | | | | | | | | | | |
| | | | 679-1434 | CRCW080547K 0FKEA | 0,010 | 50 | RC0805FR-0747K | 0,007 | 100 | 16 | Farnell | 0,006 € | 20 | | 0,126 |
| 117 | 11 | 4K7 1% | | | | | | | | | | | | | |
| | 1 | 4K7 1% | | | | | | | | | | | | | |
| | | | 223-0528 | CRG0805F4K7 | 0,011 | 50 | RC0805FR-074K7 | 0,008 | 100 | 13 | Farnell | 0,002 € | 20 | | 0,040 |
| 118 | 4 | 49R9 1% | | | | | | | | | | | | | |
| | 2 | 49R9 1% | 679-1462 | CRCW080549R 9FKEA | 0,011 | 50 | RC0805FR-0749R9 | 0,007 | 100 | 6 | Farnell | 0,002 € | 10 | | 0,020 |

| # | | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|-----|-----|---|---|--------------------------------------|----------------|-----|---------------------|--------------------|-----------------|-----|--------------------|-----------------|-----|--------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 119 | 1 | 51K 1% | 0805 | R48 | Power board | 2 | 9334653 | MC01W0805551K | 0,015 | 10 | RC0805FR-0751KL | 0,019 | | RC0805FR-0751KL | 0,015 | |
| 120 | 2 | 5K1 1% | 0805 | R84, R97 | Power board | 4 | 9333320 | MC01W080515K1 | 0,002 | 10 | RC0805FR-075K1L | 0,019 | | RC0805FR-075K1L | 0,015 | |
| 121 | 2 | 5K6 1% | 0805 | R115, R117 | AUX PS | 2 | | | | | | | | | | |
| | 2 | 5K6 1% | 0805 | R88, R99 | Power board | 4 | | | | | | | | | | |
| | | | | | | 6 | 2447693 | MCWR08X5601FT L | 0,006 | 10 | RC0805FR-075K6L | 0,019 | | RC0805FR-075K6L | 0,015 | |
| 122 | 3 | 750R 1% | 0805 | R46, R89, R96 | Power board | 6 | | | | | | | | | | |
| | 2 | 750R 1% | 0805 | R152, R153 | Arduino Shield | 2 | | | | | | | | | | |
| | | | | | | 8 | 9333525 | MC01W08051750R | 0,002 | 10 | RC0805FR-07750RL | 0,019 | | RC0805FR-07750RL | 0,015 | |
| 123 | 2 | 7K5 0.1% | 0805 | R39, R52 | Power board | 4 | 1670239 | ERA6AEB752V | 0,312 | 10 | RT0805BRD077 K5L | 0,350 | | RT0805BRD077 K5L | 0,357 | |
| 124 | 2 | 82R 0.1% | 0805 / 0603 | R62, R71 | Power board | 4 | 1577592 | ERA3AEB820V | 0,185 | 10 | P82DBCT-ND | 0,370 | 1 | 667-ERA-6AEB820V | 0,547 | 1 |
| 125 | 1 | 0R010 1% / 2W | 2512 or 1206 / min 1W | R4 | Power board | 2 | 1435947 | CRA2512-FZ-R010ELF | 0,484 | 10 | CRA2512-FZ-R010ELF | 0,540 | | CRA2512-FZ-R010ELF | 0,568 | |
| 126 | 1 | 0R020 1% / 2W | 2512, 2W | R65 | Power board | 2 | 2079436 | LRMAM2512-R02FT4 | 0,250 | 10 | CRA2512-FZ-R020ELF | 0,540 | | CRA2512-FZ-R020ELF | 0,568 | |
| 127 | 1 | 0R2 1% | 1210 | R63 | Power board | 2 | 1892932 | ERJ3BSFR20V | 0,263 | 10 | 311-0.2NACT-ND | 0,530 | 1 | 756-LCS1206-R20FT3 | 0,179 | 1 |
| 128 | 1 | 1M 1% | 0805 | R176 | Arduino Shield | 1 | 2447596 | MCWR08X1004FT L | 0,006 | 10 | 311-1.00MCRCT-ND | 0,090 | 1 | 603-RC0805FR-071ML | 0,094 | 1 |
| 129 | 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 | |
| 130 | 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 | |
| 131 | 1 | LD-BZEN-0903 | THT | SP1 Buzzer | Arduino Shield | 1 | - | | | | - | | | TE092703-6 | 2,200 | |
| 132 | 1 | A101SYCQ04 | THT, solder on the bottom layer. See pic here . | SW1 | Arduino Shield | 1 | 2292959 | A101SYCQ04 | 2,760 | 1 | A101SYCQ04 | 3,000 | | A101SYCQ04 | 2,640 | |
| 133 | 1 | EC12E20-24P24C-SW or PEC11R-4220F-S0024 | THT | SW2 incremental encoder | Arduino Shield | 1 | 2663527 | PEC11R-4220F-S0024 | 2,100 | 1 | EN12-HS22AF20 | 1,000 | 1 | 858-EN12-HS22AF20 | 1,050 | 1 |
| 134 | 1 | 1301.9316 | SMD; tactile switch | SW3 | Arduino Shield | 1 | 1217765 | 1301.9316 | 0,302 | 1 | FSM6JSMA | 0,210 | | 1301.9316 | 0,270 | |
| 135 | 1 | VTX-214-005-0512 | THT | TR1 | AUX PS | 1 | 2627176 | VTX-214-005-0512 | 5,980 | 1 | - | | | - | | |
| 136 | 2 | ERZE14A431 | THT | VAR1, VAR2 | AUX PS | 2 | 2291852 | ERZE14A431 | 0,546 | 1 | P15589-ND | 0,990 | 1 | 667-ERZ-E14A431 | 0,905 | 1 |
| 137 | 2 | ERZE11A431 | THT | VAR3, VAR4 | AUX PS | 2 | 2291831 | ERZE11A431 | 0,418 | 1 | P16688-ND | 0,470 | 1 | 667-ERZ-E11A431 | 0,472 | 1 |
| 138 | 1 | 39-30-1039 | THT 4,2mm 3-pin | X1 | Power board | 2 | 2425045 | 39-30-1039 | 0,550 | 1 | WM18442-ND | 0,630 | 1 | 538-39-30-1039 | 0,585 | 1 |
| 139 | 1 | 2411-01 | THT, solder on the bottom layer! | X11 USB Connector | AUX PS | 1 | 1177884 | 2411-01 | 1,050 | 1 | 952-1767-ND | 0,730 | | 710-61400413321 | 1,200 | |
| 140 | 4 | ZL305-08 (or similar with 0.1" raster and 5mm height) | THT, solder on the bottom layer! Two headers per one connector. | X12, X14 Front Treminal | Arduino Shield | 4 | - | | | | - | | | - | | |
| 141 | 2 | TSW-113-07-F-D | THT; 2x13-pin header | X13, X15 Power board main connectors | Arduino Shield | 2 | 2025182 | TSW-113-07-F-D | 2,240 | 5 | TSW-113-07-L-D | 2,470 | | 710-61302621121 | 1,410 | |
| 142 | 1 | 22-23-2021 | THT | X17 AUX temp | Arduino Shield | 1 | 1462926 | 22-23-2021 | 0,100 | 1 | 22-23-2021 | 0,140 | | 22-23-2021 | 0,141 | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|-----|---------------|---|----------|--------------------|--------------|-----|---------------------|--------------|-----|---------|--|-----------------------------|---------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 119 | 1 | 51K 1% | 679-1525 | CRCW080551K0FKEA | 0,020 | 50 | RC0805FR-0751K | 0,006 | 100 | 2 | | TME | 0,006 € | 10 | 0,061 |
| 120 | 2 | 5K1 1% | 679-1569 | CRCW08055K10FKEA | 0,027 | 50 | RC0805FR-075K1 | 0,007 | 100 | 4 | | Farnell | 0,002 € | 10 | 0,021 |
| 121 | 2 | 5K6 1% | | | | | | | | | | | | | |
| | 2 | 5K6 1% | 679-1572 | CRCW08055K60FKEA | 0,021 | 50 | SMD0805-5K6-1% | 0,008 | 100 | 6 | | Farnell | 0,006 € | 10 | 0,063 |
| 122 | 3 | 750R 1% | | | | | | | | | | | | | |
| | 2 | 750R 1% | 679-1660 | CRCW0805750RFKEA | 0,010 | 50 | CRCW0805750RFKTA BC | 0,012 | 100 | 8 | | Farnell | 0,002 € | 20 | 0,040 |
| 123 | 2 | 7K5 0.1% | 666-2588 | CPF0805B7K5E | 0,280 | 5 | RN73C2A7K5BTDF | 0,520 | 2 | 4 | | RS | 0,280 € | 5 | 1,400 |
| 124 | 2 | 82R 0.1% | 565-863 | ERA6AEB820V | 0,046 | 5 | AR0805-82R-0.1% | 0,113 | 10 | 4 | | RS | 0,046 € | 10 | 0,460 |
| 125 | 1 | 0R010 1% / 2W | 693-4381 | CRA2512-FZ-R010ELF | 0,515 | 5 | LRP2512-R010-1% | 0,151 | 5 | 2 | | TME | 0,151 € | 5 | 0,754 |
| 126 | 1 | 0R020 1% / 2W | 693-4384 | CRA2512-FZ-R020ELF | 0,507 | 5 | VW25NR020FTL | 0,189 | 5 | 2 | | TME | 0,189 € | 5 | 0,945 |
| 127 | 1 | 0R2 1% | 721-5892 | ERJ8BSFR20V | 0,272 | 5 | CS1210S2-0R2-1% | 0,118 | 10 | 2 | | TME | 0,118 € | 5 | 0,589 |
| 128 | 1 | 1M 1% | 223-0821 | CRG0805F1M0 | 0,019 | 50 | RC0805FR-071M | 0,008 | 100 | 1 | | Farnell | 0,006 € | 5 | 0,029 |
| 129 | 2 | 4x10K 5% | 522-5585 | CAY16-103J4LF | 0,020 | 50 | DR1206-10K-4/8 | 0,007 | 100 | 2 | | TME | 0,007 € | 2 | 0,013 |
| 130 | 1 | CG2-470L | 878-3652 | CG2-470L | 2,279 | 10 | CG2-470L | 1,450 | 1 | 1 | | Digikey | 1,270 € | 1 | 1,270 |
| 131 | 1 | LD-BZEN-0903 | - | | | | LD-BZEN-0903 | 0,504 | 3 | 1 | | TME | 0,504 € | 3 | 1,512 |
| 132 | 1 | A101SYCQ04 | 710-9788 | A101SYCQ04 | 2,576 | 1 | - | | | 1 | | RS | 2,576 € | 1 | 2,576 |
| 133 | 1 | EC12E20-24P24C-SW or PEC11R-4220F-S0024 | 737-7767 | PEC11R-4220F-S0024 | 1,160 | 1 | EC12E20-24P24C-SW | 1,024 | 1 | 1 | | Digikey | 1,000 € | 1 | 1,000 |
| 134 | 1 | 1301.9316 | 718-2443 | FSM6JSMATR | 0,818 | 5 | 1301.9316 | 0,220 | 5 | 1 | | Digikey | 0,210 € | 1 | 0,210 |
| 135 | 1 | VTX-214-005-0512 | - | | | | - | | | 1 | | Farnell | 5,980 € | 1 | 5,980 |
| 136 | 2 | ERZE14A431 | 785-8960 | ERZE14A431 | 0,928 | 5 | - | | | 2 | | Farnell | 0,546 € | 2 | 1,092 |
| 137 | 2 | ERZE11A431 | 785-8904 | ERZE11A431 | 0,249 | 25 | - | | | 2 | | RS | 0,249 € | 2 | 0,498 |
| 138 | 1 | 39-30-1039 | 670-5751 | 39-30-1039 | 0,550 | 5 | MX-5566-03A3 | 0,498 | 1 | 2 | | TME | 0,498 € | 2 | 0,996 |
| 139 | 1 | 2411-01 | - | | | | 2411-01 | 0,660 | 1 | 1 | | TME | 0,660 € | 1 | 0,660 |
| 140 | 4 | ZL305-08 (or similar with 0.1" raster and 5mm height) | - | | | | ZL305-08 | 0,560 | 1 | 4 | | TME | 0,560 € | 4 | 2,240 |
| 141 | 2 | TSW-113-07-F-D | - | | | | - | | | 2 | | Mouser | 1,410 € | 2 | 2,820 |
| 142 | 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 |

| # | Qty | Part name | Package | Reference designator | Board name | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|-----|-----|-------------------|----------------------------------|--|----------------|-----|---------------------|-----------------------|-----------------|-----|-----------------------|-----------------|-----|------------------|-----------------|-----|
| | | | | | | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 143 | 1 | MC34753 | THT | X18, 8-pin header, angled | Arduino Shield | 1 | 1593431 | MC34753 | 0,422 | 10 | M20-9750846 | 0,230 | | 710-61300811021 | 0,670 | |
| 144 | 1 | SSW-113-02-T-D-RA | THT; 2x13-pin socket | X2 | Power board | 2 | 1805583 | SSW-113-02-G-D-RA | 5,700 | 2 | SSW-113-02-G-D-RA | 5,340 | | - | | |
| 145 | 1 | 39-30-3055 | THT 4,2mm 5pin | X3 AC In | AUX PS | 1 | 9963561 | 39303055 | 0,530 | 1 | 39-30-3055 | 1,180 | | 39-30-3055 | 0,923 | |
| 146 | 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 | |
| 147 | 1 | 22-23-2031 | THT | X4 FAN Connector | AUX PS | 1 | 1462950 | 22-23-2031 | 0,081 | 1 | 22-23-2031 | 0,210 | | 22-23-2031 | 0,198 | |
| 148 | 1 | CTB9300/3A | THT | X6 DOUT2 Connector | AUX PS | 1 | 3882044 | CTB9300/3A | 0,176 | 1 | ED2800-ND | 0,350 | 1 | 710-691311700103 | 0,620 | 1 |
| 149 | 1 | LMJ2138814S0L1T1C | THT, solder on the bottom layer! | X7 RJ45 Connector | AUX PS | 1 | - | | | | - | | | - | | |
| 150 | 1 | 826629-8 | THT 8-Pin Header | X8 | AUX PS | 1 | | | | | | | | | | |
| | 5 | 826629-8 | THT 8-Pin Header | MCU-ADCL, MCU-ADCH, MCU-COMM, MCU-PWML, MCU-PWMH | Arduino Shield | 5 | | | | | | | | | | |
| | | | | | | 6 | 1022256 | M20-9990845 | 0,117 | 10 | M20-9990845 | 0,240 | | M20-9990845 | 0,317 | |
| 151 | 1 | 826629-6 | THT 6-Pin Header | MCU-POWER | Arduino Shield | 1 | 1022255 | M20-9990646 | 0,161 | 10 | 952-2270-ND | 0,220 | 1 | 855-M20-9990646 | 0,226 | 1 |
| 152 | 1 | 10-89-7361 | THT 2x18-Pin Header | MCU-DIGITAL | Arduino Shield | 1 | 2356147 | 61303621121 | 1,580 | 1 | WM50022-36-ND | 3,020 | 1 | 538-10-89-7361 | 1,680 | 1 |
| 153 | 1 | 826629-5 | THT 5-Pin Header | X10 | 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 | |
| 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 | 1 | SMAJ51A | DO-214AC | ZD1 | Power board | 2 | 1578999 | SMAJ51A | 0,163 | 5 | SMAJ51ALFCT-ND | 0,370 | 1 | 576-SMAJ51A | 0,405 | 1 |
| 157 | 5 | SMAJ18A | DO-214AC | ZD8, ZD9, ZD11, ZD12, ZD14 | Arduino Shield | 5 | | | | | | | | | | |
| | 1 | SMAJ18A | DO-214AC | ZD6 | AUX PS | 1 | | | | | | | | | | |
| | | | | | | 6 | 1749305 | SMAJ18A-TR | 0,070 | 10 | SMA6J18A-TR | 0,340 | | SMA6J18A-TR | 0,407 | |
| 158 | 1 | BZX384-C4V3 | SOD-323 | ZD13 | Arduino Shield | 1 | 8735697 | BZX384-C4V3 | 0,182 | 5 | MM3Z4V3T1G | 0,130 | | BZX384-C4V3,115 | 0,110 | |
| 159 | 1 | BZX384-C15.115 | SOD-323 | ZD2 | Power board | 2 | 8735506 | BZX384-C15 | 0,182 | 5 | MM3Z15VT1G | 0,130 | | MM3Z15VT1G | 0,118 | |
| 160 | 1 | PDZ6.2B | SOD-323 | ZD3 | Power board | 2 | 1757863 | PDZ6.2B,115 | 0,266 | 5 | MM3Z6V2T1G | 0,130 | | MM3Z6V2T1G | 0,118 | |
| 161 | 2 | P4SMAJ48A | DO-214AC | ZD7, ZD10 | Arduino Shield | 2 | 1749310 | SMAJ48A-TR | 0,264 | 1 | SMAJ48A-TR | 0,340 | | SMAJ48A-TR | 0,340 | |
| 162 | 2 | 1.5KE400CA | THT | ZD4, ZD5 | AUX PS | 2 | 2341650 | 1.5KE400CARL | 0,777 | 1 | 1.5KE400CA-TP | 0,560 | | 1.5KE400CA-TP | 0,549 | |

| Not installed | | | | | | | | | | | |
|---------------|------------|-----------|------------------------|----------------|---|---|--|--|--|--|--|
| 2 | 1u 50V X7R | 0805, 50V | C104A, C109A | Arduino Shield | 2 | | | | | | |
| 1 | n.c. | 0805 | C12 | Power board | 2 | - | | | | | |
| 1 | 1u | 0805 | C149 | Arduino Shield | 1 | - | | | | | |
| 4 | 1n | 0805 | C142, C143, C147, C148 | Power board | 8 | - | | | | | |
| 1 | n.c. | 1206 | C144 | Power board | 2 | - | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|---------------|---------------|-------------------|----------|--------------------|-----------------|-----|--------------------|-----------------|-----|-----------|-----|-----------------------------|------------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 143 | 1 | MC34753 | 828-1673 | 61300811021 | 0,759 | 5 | | | | 1 | | Digikey | 0,230 € | 1 | 0,230 |
| 144 | 1 | SSW-113-02-T-D-RA | - | | | | ZL263-26DG | 0,399 | 2 | 2 | | TME | 0,399 € | 2 | 0,798 |
| 145 | 1 | 39-30-3055 | 670-5861 | 39-30-3055 | 0,563 | 5 | - | | | 1 | | Farnell | 0,530 € | 1 | 0,530 |
| 146 | 1 | 09185107324 | | | | | | | | | | | | | |
| | 1 | 09185107324 | | | | | | | | | | | | | |
| | | | 740-7108 | 09185107324 | 1,442 | 1 | T821-1-10-S1 | 0,290 | 2 | 2 | | TME | 0,290 € | 2 | 0,580 |
| 147 | 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 |
| 148 | 1 | CTB9300/3A | | | | | TBG-5.0-PW-3P | 0,114 | | 1 | | TME | 0,114 € | 1 | 0,114 |
| 149 | 1 | LMJ2138814S0L1T1C | - | | | | RJ45-TRAFO-LP | 2,820 | 1 | 1 | | TME | 2,820 € | 1 | 2,820 |
| 150 | 1 | 826629-8 | | | | | | | | | | | | | |
| | 5 | 826629-8 | | | | | | | | | | | | | |
| | | | 681-2997 | M20-9990845 | 0,125 | 10 | ZL201-08G | 0,065 | 10 | 6 | | TME | 0,065 € | 10 | 0,649 |
| 151 | 1 | 826629-6 | 745-7062 | M20-9990646 | 0,244 | 10 | ZL201-06G | 0,037 | 10 | 1 | | TME | 0,037 € | 1 | 0,037 |
| 152 | 1 | 10-89-7361 | 828-1569 | 61303621121 | 1,626 | 1 | - | | | 1 | | Farnell | 1,580 € | 1 | 1,580 |
| 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 |
| 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 | 1 | SMAJ51A | 687-3309 | SMAJ51A R3 | 0,073 | 25 | SMAJ51A-LF | 0,175 | 3 | | 2 | RS | 0,073 € | 2 | 0,146 |
| 157 | 5 | SMAJ18A | | | | | | | | | | | | | |
| | 1 | SMAJ18A | | | | | | | | | | | | | |
| | | | 795-9268 | SMA6J18A-TR | 0,112 | 25 | P4SMAJ18A-DIO | 0,105 | 5 | | 6 | Farnell | 0,070 € | 6 | 0,420 |
| 158 | 1 | BZX384-C4V3 | 508-696 | BZX384-C4V3 | 0,013 | 100 | BZT52C4V3-DIO | 0,019 | 25 | | 1 | RS | 0,013 € | 1 | 0,013 |
| 159 | 1 | BZX384-C15.115 | 802-4568 | MM3Z15VST1G | 0,013 | 200 | BZX384-C15.115 | 0,019 | 25 | | 2 | RS | 0,013 € | 2 | 0,026 |
| 160 | 1 | PDZ6.2B | 725-8247 | PDZ6.2B,115 | 0,014 | 100 | PDZ6.2B | 0,019 | 25 | | 2 | RS | 0,014 € | 2 | 0,028 |
| 161 | 2 | P4SMAJ48A | 687-3286 | SMAJ48A | 0,098 | 25 | P4SMAJ48A-DIO | 0,102 | 5 | | 2 | RS | 0,098 € | 2 | 0,196 |
| 162 | 2 | 1.5KE400CA | 486-4381 | 1.5KE400CA | 0,781 | 5 | 1.5KE400CA | 0,256 | 3 | 2 | | TME | 0,256 € | 2 | 0,512 |
| | | | | | | | | | 3 | 57 | 660 | 199,67 € | | | |
| Not installed | | | | | | | | | | | | | | | |
| | 2 | 1u 50V X7R | | | | | | | | 2 | | | | | |
| | 1 | n.c. | | | | | | | | 2 | | | | | |
| | 1 | 1u | | | | | - | | | 1 | | | | | |
| | 4 | 1n | | | | | | | | 8 | | | | | |
| | 1 | n.c. | | | | | | | | 2 | | | | | |

| # | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | | |
|------------------------------|-----|------------------------------|--|---|----------------|---------------------|---------|-----------------|-----------------|----------|-----------------|-----------------|--------|-----------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | 2 | 2m2 | THT, Ø18mm, solder on bottom layer! | C145, C146 | Power board | 4 | - | | | | | | | | | |
| | 2 | 470n 50V X7R | 0805, 50V | C150, C153 | Arduino Shield | 2 | | | | | | | | | | |
| | 2 | 4n7 100V X7R | 0805 | C151, C152 | Arduino Shield | 2 | | | | | | | | | | |
| | 1 | 100n | 0805 | C154 | Arduino Shield | 1 | - | | | | | | | | | |
| | 1 | 220n X7R | 0805 | C155 | Arduino Shield | 1 | - | | | | | | | | | |
| | 1 | 1uF/50V Tant. | 6032 | C27 | power bord | 1 | - | | | | | | | | | |
| | 1 | n.c. | 0805 | C62 | Power board | 2 | - | | | | | | | | | |
| | 1 | SMBJ5.0A-TR | DO-214AA | D17 | Arduino Shield | 1 | - | | | | | | | | | |
| | 4 | STPS15H100 | TO-252 | D22, D23, D24, D25 | Power board | 8 | | | | | | | | | | |
| | 1 | 74LVC1G125GW.125 | TSSOP-5 | IC33 | Arduino board | 1 | - | | | | | | | | | |
| | 1 | TPA6205A1DGN | MSOP-8 | IC34 | Arduino board | 1 | - | | | | | | | | | |
| | 1 | 693072010801 | Micro SD card | J7 | Arduino board | 1 | - | | | | | | | | | |
| | 1 | HSMY-C170 | 0805 Yellow | LED | Power board | 2 | - | | | | | | | | | |
| | 1 | n.c. | 0805 | R1 | Power board | 2 | - | | | | | | | | | |
| | 2 | 1R 1% | 0805 | R136A, R140A | Arduino Shield | 2 | | | | | | | | | | |
| | 2 | 47K 1% | 0805 | R160, R174 | Arduino Shield | 2 | | | | | | | | | | |
| | 1 | n.c. | 1206 | R167 | Power board | 2 | - | | | | | | | | | |
| | 1 | 12K | 1208 | R168 | Power board | 2 | - | | | | | | | | | |
| | 2 | 20K 1% | 0805 | R169, R175 | Arduino board | 2 | | | | | | | | | | |
| | 2 | 1K 1% | 0805 | R170, R171 | Arduino Shield | 2 | | | | | | | | | | |
| | 2 | 10K 1% | 0805 | R172, R173 | Arduino Shield | 2 | | | | | | | | | | |
| | 2 | n.c. | 0805 | R2, R14 | Power board | 4 | - | | | | | | | | | |
| | 1 | LD-BZEN-0903 | THT | SP2, if used mount SP1 on this position | Arduino Shield | 1 | - | | | | | | | | | |
| | 1 | 826629-5 | THT | X9 | AUX PS | 1 | - | | | | | | | | | |
| | 1 | 282836-2 | THT | X19 | Power board | 2 | - | | | | | | | | | |
| | 1 | PCA-6B-20-HL-3 or 52746-2071 | SMT | X20 3.5" Riverdi TFT LCD | Arduino board | 1 | - | | | | | | | | | |
| | 1 | ZL262-5SG | THT | X21 | Power board | 2 | - | | | | | | | | | |
| | 1 | FFC 20-pin cable 150 mm | | 3.5" Riverdi TFT LCD | Arduino board | 1 | - | | | | | | | | | |
| | 1 | n.c. | | ZD15 | Power board | 2 | - | | | | | | | | | |
| Power module AC input option | | | | | | | | | | | | | | | | |
| | 2 | 2200uF 63V | THT, solder on bottom layer! | C145, C146 | Power board | 4 | 1822562 | UVR1J222MHD | 2,540 | 1 | UVR1H222MHD | 1,680 | | UVR1H222MHD | 1,710 | |
| | | Option #1: UVZ1H222MHD | THT, solder on bottom layer! | C145, C146 | Power board | 0 | 1822570 | UVZ1H222MHD | 2,420 | 1 | UVZ1H222MHD | 1,500 | | UVZ1H222MHD | 1,690 | |
| | | Option #2: UVZ1J222MHD | THT, solder on bottom layer! | C145, C146 | Power board | 0 | 1822575 | UVZ1J222MHD | 2,420 | 1 | UVZ1J222MHD | 2,210 | | UVZ1J222MHD | 2,780 | |
| | 4 | STPS15H100 | TO-252 | D22, D23, D24, D25 | Power board | 8 | 2344052 | STPS15H100CB-TR | 1,070 | 1 | STPS15H100CB | 0,900 | | STPS15H100CB | 0,896 | |
| | 1 | 12K 1% | 1206 | R168 | Power board | 2 | 1100220 | WCR1206-12KFI | 0,026 | 10 | RC1206FR-0712KL | 0,090 | | RC1206FR-0712KL | 0,091 | |
| | 1 | 282836-2 | THT, Terminal Block | X19 | 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 | |

Other

| # | RS Components | | | | | | TME | | | | | Price calculation for 1 set | | | | Line Cost € |
|-------------------------|---------------|------------------------------|----------|-----------------|--------------|-----|--------------------|--------------|-----|-----|-----|-----------------------------|---------------------|-----------|--------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | Lowest unit price € | Order Qty | | |
| | 2 | 2m2 | | | | | - | | | | 4 | | | | | |
| | 2 | 470n 50V X7R | | | | | | | | | 2 | | | | | |
| | 2 | 4n7 100V X7R | | | | | | | | | 2 | | | | | |
| | 1 | 100n | | | | - | | | | | 1 | | | | | |
| | 1 | 220n X7R | | | | | | | | | 1 | | | | | |
| | 1 | 1uF/50V Tant. | | | | | | | | | 1 | | | | | |
| | 1 | n.c. | | | | - | | | | | 2 | | | | | |
| | 1 | SMBJ5.0A-TR | | | | | | | | | 1 | | | | | |
| | 4 | STPS15H100 | | | | - | | | | | 8 | | | | | |
| | 1 | 74LVC1G125GW.125 | | | | | | | | | 1 | | | | | |
| | 1 | TPA6205A1DGN | | | | | | | | | 1 | | | | | |
| | 1 | 693072010801 | | | | | | | | | | | | | | |
| | 1 | HSMY-C170 | | | | | | | | | 2 | | | | | |
| | 1 | n.c. | | | | | | | | | 2 | | | | | |
| | 2 | 1R 1% | | | | | | | | | 2 | | | | | |
| | 2 | 47K 1% | | | | | | | | | 2 | | | | | |
| | 1 | n.c. | | | | - | | | | | 2 | | | | | |
| | 1 | 12K | | | | - | | | | | 2 | | | | | |
| | 2 | 20K 1% | | | | | | | | | 2 | | | | | |
| | 2 | 1K 1% | | | | | | | | | 2 | | | | | |
| | 2 | 10K 1% | | | | | | | | | 2 | | | | | |
| | 2 | n.c. | | | | - | | | | | 4 | | | | | |
| | 1 | LD-BZEN-0903 | | | | | | | | 1 | | | | | | |
| | 1 | 826629-5 | | | | - | | | | 1 | | | | | | |
| | 1 | 282836-2 | | | | - | | | | 2 | | | | | | |
| | 1 | PCA-6B-20-HL-3 or 52746-2071 | | | | | | | | | 1 | | | | | |
| | 1 | ZL262-5SG | | | | | | | | | | | | | | |
| | 1 | FFC 20-pin cable 150 mm | | | | | | | | | | | | | | |
| | 1 | n.c. | | | | - | | | | | 2 | | | | | |
| Power module AC input c | | | | | | | | | | | | | | | | |
| | 2 | 2200uF 63V | 862-3229 | UVR1H222MHD | 2,156 | 1 | UVR1H222MHD | 1,100 | 1 | | | | | | | |
| | | Option #1: UVZ1H222MHD | 845-4755 | UVZ1H222MHD | 1,218 | 5 | UVZ1H222MHD | 0,973 | 1 | | | | | | | |
| | | Option #2: UVZ1J222MHD | 862-1759 | UVZ1J222MHD | 2,814 | 1 | UVZ1J222MHD | 1,593 | 1 | 4 | | TME | 1,593 € | 4 | 6,372 | |
| | 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 | |
| Other | | | | | | | | | | | | | | | | |

| # | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | | |
|--------------|--|--|----------|------------------------|----------------|---------------------|---------|-------------|-----------------|----------|-------------|-----------------|--------|-------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 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 |
| 0 | Heatsink 70 x 120 mm | Not required if Varisom enclosure kit is purchased! | | | Power board | 0 | - | | | | - | | | - | | |
| 1 | Arduino Due | | | | Arduino Shield | 1 | 2250861 | A000062 | 40,660 | 1 | | | | | | |
| 1 | 3.2" TFT LCD | | | | Arduino Shield | 1 | - | | | | | | | | | |
| 1 | Varisom enclosure kit | Enclosure, AC/DC mounting rail, TFT display mounting rail, handles, foot | | | Enclosure | 1 | - | | | | | | | | | |
| 1 | PCB+PCBA | | | | Enclosure | 1 | - | | | | | | | | | |
| Nuts & bolts | | | | | | | | | | | | | | | | |
| 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 | - | | | - | | |
| 2 | MC000006 | Insert into 2 x headers 5mm height | X12, X14 | Front Treminal | Arduino Shield | 2 | 2007972 | MC000006 | 1,900 | 1 | - | | | - | | |
| 2 | 0.4 mm thermal silicone pad | Power module's Q4 mounting on heatsink | | | Enclosure | 2 | | | | | | | | | | |
| 2 | 5 mm thick thermal silicone pad (20 x 75 mm) | Mounted below power pre-regulator | Search | AliExpress, eBay, etc. | Enclosure | 2 | | | | | | | | | | |
| 2 | BS-244DSM-R | Binding post 4mm, red | J1, J5 | | Arduino Shield | 2 | - | | | | | | | | | |
| 1 | BS-244DSM-G | Binding post 4mm, green | J3 | | Arduino Shield | 1 | - | | | | | | | | | |
| 2 | BS-244DSM-B | Binding post 4mm, black | J4, J6 | | Arduino Shield | 2 | - | | | | | | | | | |
| 5 | Washer, spring M5 | Binding posts | | | Arduino Shield | 5 | - | | | | | | | | | |
| 2 | M3x5 countersunk, black finish | Rear and front panel | | | Enclosure | 2 | | | | | | | | | | |
| 2 | M3x5 countersunk, black finish | AC/DC mounting rail | | | Enclosure | 2 | | | | | | | | | | |
| 4 | M3x5 countersunk, black finish | TFT display mounting rail | | | Enclosure | 4 | | | | | | | | | | |
| 2 | M3x5 countersunk, black finish | AC inlet | | | Enclosure | 2 | | | | | | | | | | |
| 8 | M3x5 countersunk, black finish | Top and bottom plates | | | Enclosure | 8 | | | | | | | | | | |
| 8 | M3x5 countersunk, black finish | Power board top and bottom plate mounting | | | Enclosure | 8 | | | | | | | | | | |
| | | | | | | 26 | - | | | | | | | | | |
| 4 | M4x6 | Front panel handles | | | Enclosure | 4 | - | | | | | | | | | |
| 1 | Washer externally serrated M3, D=6mm | Earth connection | | | Enclosure | 1 | | | | | | | | | | |
| 2 | Washer externally serrated M3, D=6mm | Power module's Q4 mounting on heatsink | | | Enclosure | 2 | | | | | | | | | | |
| | | | | | | 3 | 7096471 | 6797/3.0 | 1,870 | 100 | | | | | | |
| 2 | M3x12, cheese head | Power module's Q4 mounting on heatsink | | | Enclosure | 2 | - | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|--------------|---------------|--|----------|-------------|--------------|-----|--------------------|--------------|-----|---------|--|-----------------------------|---------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 1 | | 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 | - | | | | | |
| 0 | | Heatsink 70 x 120 mm - | | | | | RAD-A4463/120 | 1,370 | 1 | - | | | | | 0,000 |
| 1 | | Arduino Due | 769-7412 | A000062 | 33,680 | 1 | lthead/Eckstein | 19,480 | | - | | TME | 19,480 € | 1 | 19,480 |
| 1 | | 3.2" TFT LCD | | | | | lthead/Eckstein | 12,140 | | - | | TME | 12,140 € | 1 | 12,140 |
| 1 | | Varisom enclosure kit | | | | | | | | - | | | | | |
| 1 | | PCB+PCBA | | | | | | | | - | | | | | |
| | | | | | | | | | | | | | | | 61,82 € |
| Nuts & bolts | | | | | | | | | | | | | | | |
| 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 |
| 2 | | MC000006 - | | | | | - | | | | | Farnell | 1,900 € | 2 | 3,800 |
| 2 | | 0.4 mm thermal silicone pad | | | | | SMICA-SOT93 | 0,214 | 10 | | | TME | 0,214 € | 20 | 4,270 |
| 2 | | 5 mm thick thermal silicone pad (20 x 75 mm) | | | | | | | | | | | | | |
| 2 | | BS-244DSM-R | | | | | BS-244DSM-R | 1,120 | 1 | | | TME | 1,120 € | 2 | 2,240 |
| 1 | | BS-244DSM-G | | | | | BS-244DSM-G | 1,120 | 1 | | | TME | 1,120 € | 1 | 1,120 |
| 2 | | BS-244DSM-B | | | | | BS-244DSM-B | 1,140 | 1 | | | TME | 1,140 € | 2 | 2,280 |
| 5 | | Washer, spring M5 | | | | | B5/BN672 | 0,010 | 100 | | | TME | 0,010 € | 5 | 0,049 |
| 2 | | M3x5 countersunk, black finish | | | | | | | | | | | | | |
| 2 | | M3x5 countersunk, black finish | | | | | | | | | | | | | |
| 4 | | M3x5 countersunk, black finish | | | | | | | | | | | | | |
| 2 | | M3x5 countersunk, black finish | | | | | | | | | | | | | |
| 8 | | M3x5 countersunk, black finish | | | | | | | | | | | | | |
| 8 | | M3x5 countersunk, black finish | | | | | | | | | | | | | |
| | | | | | | | M3X5/D965B | 0,013 | 100 | | | TME | 0,013 € | 26 | 0,344 |
| 4 | | M4x6 | | | | | B4X6/BN3334 | 0,014 | 100 | | | TME | 0,014 € | | 0,000 |
| 1 | | Washer externally serrated M3, D=6mm | | | | | | | | | | | | | |
| 2 | | Washer externally serrated M3, D=6mm | | | | | | | | | | | | | |
| | | | | | | | B3/BN789 | 0,008 | 100 | | | TME | 0,008 € | 3 | 0,025 |
| 2 | | M3x12, cheese head | | | | | B3X12/BN272 | 0,026 | 200 | | | TME | 0,026 € | 2 | 0,051 |

| # | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | | |
|--------------|------|--|--|----------------------|----------------|---------------------|---------|-------------------|-----------------|----------|-------------|-----------------|--------|--------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | 4 | Washer M3, 8mm | Enclosure feet | | Enclosure | 4 | - | | | | | | | | | |
| | 5 | M3x8, black finish | AUX PS mounting, ext | | AUX PS | 5 | | | | | | | | | | |
| | 2 | M3x8, black finish | Three part heatsink joints | | Power board | 4 | | | | | | | | | | |
| | 4 | M3x8, black finish | Enclosure feet | | Enclosure | 4 | | | | | | | | | | |
| | 4 | M3x8, black finish | Power module mounting on heatsink | | Power board | 8 | | | | | | | | | | |
| | | | | | | 21 | - | | | | | | | | | |
| | 5 | M3x5 | AUX PS mounting, int | | AUX PS | 5 | | | | | | | | | | |
| | 4 | M3x5 | AC/DC mounting rail | | Enclosure | 4 | | | | | | | | | | |
| | | | | | | 9 | - | | | | | | | | | |
| | 2 | TFF-M3X40/DR124 | 40 mm metal spacer, M3 (a pair is required for dual channel) | | Enclosure | 2 | - | | | | | | | | | |
| | 5 | Screwed spacer sleeve; hexagonal | 14 mm, M3 | | AUX PS | 5 | 1466812 | 05.03.143 | 0,397 | 4 | | | | | | |
| | 5 | Screwed spacer sleeve; M5; 8mm; brass | Extend binding post for PCB mounting | | Arduino Shield | 5 | - | | | | | | | | | |
| | 8 | Spacer sleeve; 5mm; cylindrical; brass | Power module mounting on heatsink | | Enclosure | 8 | 1733405 | D01475 | 0,106 | 10 | | | | | | |
| | 4 | ??? | Spacer between display and Arduino shield | | Arduino Shield | 4 | | | | | | | | | | |
| | 12 | Light pipe for LED | Round; Ø3mm; Front: convex; straight | | Arduino Shield | 12 | 2293496 | PLP2-500 | 0,627 | 10 | | | | | | |
| | 1 | Schurter 4304.6090 | C14 IEC inlet, switch, 2 fuse drawer is included | | Enclosure | 1 | 2080294 | 4304.6090 | 9,200 | 1 | | | | | | |
| | 2 | 4A Fuse | 230 VAC | | AUX PS | 2 | - | | | | | | | | | |
| | | 8A Fuse | 115 VAC option | | | 0 | - | | | | | | | | | |
| | 0,06 | CB-HFT50.8/1M-BL | Heat shrink sleeve; 2:1, 50.8mm | | AUX PS | 0,06 | - | | | | | | | | | |
| | 1 | A3116068 | Encoder knob head | | Arduino Shield | 1 | - | | | | - | | | - | | |
| | 1 | A3216007 | Encoder knob cap; grey | | Arduino Shield | 1 | - | | | | - | | | - | | |
| | 1 | SD card 8Gb, min. 4Mb/s | | | Arduino Shield | 1 | - | | | | - | | | 908-AP8GSDHC4-B | 8,710 | 1 |
| | 1 | CTB92VG/3S | Pluggable terminal block; female; 5mm; angled 90° for DOUT2 | | AUX PS | 1 | 3881921 | CTB92VG/3S | 1,070 | 1 | | | | | | |
| Wire harness | | | | | | | | | | | | | | | | |
| | 1 | 10K NTC | AUX temperature sensor | | Arduino Shield | 1 | 1187031 | NTCLE100E3103J B0 | 0,489 | 1 | BC2301-ND | 0,640 | 1 | 594-2381-640-63103 | 0,245 | 1 |
| | 0,03 | HIS-1.2/0.6-RD | Heat shrink sleeve; red | AUX temp sensor | Arduino Shield | 0,03 | - | | | | - | | | - | | |
| | 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 X3 | 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 | 3-pin receptacle for X4 | Cooling fan | AUX PS | 1 | 143127 | 22-01-2035 | 0,192 | 10 | 22-01-2035 | 0,310 | | 22-01-2035 | 0,290 | |
| | 1 | 22-01-2025 | 2-pin receptacle for X17 | AUX temp sensor | Arduino Shield | 1 | 143126 | 22-01-2025 | 0,179 | 10 | WM2613-ND | 0,270 | 10 | | | |
| | 2 | NSR-08 | Receptacle for X8, X18 | Ethernet cable | AUX PS | 2 | | | | | | | | | | |
| | 3 | 39-00-0078 | Pins for X1 | DC power input | Power board | 6 | | | | | | | | | | |
| | 5 | 39-00-0078 | Pins for X3 | AC power input | AUX PS | 5 | | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT SMD | | Price calculation for 1 set | | | |
|--------------|--|-----------|------------------|-------------|-----------------|-----|--------------------|-----------------|-----|---------|--|-----------------------------|------------------------|-----------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 4 | Washer M3, 8mm | | | | | | B8X0.4/BN806 | 0,026 | 100 | | | TME | 0,026 € | 4 | 0,103 |
| 5 | M3x8, black finish | | | | | | | | | | | | | | |
| 2 | M3x8, black finish | | | | | | | | | | | | | | |
| 4 | M3x8, black finish | | | | | | | | | | | | | | |
| 4 | M3x8, black finish | | | | | | | | | | | | | | |
| | | | | | | | M3X8/D7985B | 0,019 | 100 | | | TME | 0,019 € | 21 | 0,389 |
| 5 | M3x5 | | | | | | | | | | | | | | |
| 4 | M3x5 | | | | | | | | | | | | | | |
| | | | | | | | M3X5/D7985 | 0,013 | 100 | | | TME | 0,013 € | 9 | 0,114 |
| 2 | TFF-M3X40/DR124 | | | | | | TFF-M3X40/DR124 | 0,156 | 10 | | | TME | 0,156 € | 2 | |
| 5 | Screwed spacer sleeve; hexagonal | | | | | | B3X14/BN3320 | 0,309 | 10 | | | TME | 0,309 € | 5 | 1,547 |
| 5 | Screwed spacer sleeve; M5; 8mm; brass | | | | | | TFM-M5X8/DR218 | 0,187 | 10 | | | TME | 0,187 € | 5 | |
| 8 | Spacer sleeve; 5mm; cylindrical; brass | | | | | | DR316/3.2X5 | 0,057 | 10 | | | TME | 0,057 € | 8 | 0,456 |
| 4 | ??? | | | | | | | | | | | Farnell | 0,000 € | 4 | |
| 12 | Light pipe for LED | | | | | | PLP2-625 | 0,331 | 5 | | | TME | 0,331 € | 12 | 3,972 |
| 1 | Schurter 4304.6090 | | | | | | 4304.6090 | 3,594 | 1 | | | TME | 3,594 € | 1 | |
| 2 | 4A Fuse | | | | | | ZKT-4A | 0,095 | 10 | | | TME | 0,095 € | 2 | 0,189 |
| | 8A Fuse | | | | | | ZKT-8A/125V | 0,094 | 10 | | | TME | 0,094 € | 0 | |
| 0,06 | CB-HFT50.8/1M-BL | | | | | | CB-HFT50.8/1M-BL | 1,241 | 1 | | | TME | 1,241 € | 1 | 1,241 |
| 1 | A3116068 | - | | | | | A3116068 | 1,495 | 1 | | | TME | 1,495 € | 1 | |
| 1 | A3216007 | - | | | | | A3216007 | 0,563 | 1 | | | TME | 0,563 € | 1 | 0,563 |
| 1 | SD card 8Gb, min. 4Mb/s | | | | | | S400-0080R11 | 3,840 | 1 | | | TME | 3,840 € | 1 | |
| 1 | CTB92VG/3S | | | | | | TBW-5.0-3P | 0,420 | 1 | | | TME | 0,420 € | 1 | 0,420 |
| | | | | | | | | | | | | | | | |
| 18,96 € | | | | | | | | | | | | | | | |
| Wire harness | | | | | | | | | | | | | | | |
| 1 | 10K NTC | 754-6645 | NTCLE100E3103JB0 | 0,334 | 5 | | NTCLE100E3103JB0 | 0,269 | | | | Mouser | 0,245 € | 1 | 0,245 |
| 0,03 | HIS-1.2/0.6-RD | - | | | | | HIS-1.2/0.6-RD | 1,295 | 10 | | | TME | 1,295 € | 1 | |
| 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 | |
| 1 | 22-01-2035 | 296-4940 | 22-01-2035 | 0,204 | 5 | | MX-6471-031 | 0,050 | 10 | | | TME | 0,050 € | 1 | 0,050 |
| 1 | 22-01-2025 | | | | | | MX-6471-021 | 0,048 | 10 | | | TME | 0,048 € | 1 | |
| 2 | NSR-08 | | | | | | NSR-08 | 0,087 | 10 | | | TME | 0,087 € | 2 | 0,000 |
| 3 | 39-00-0078 | | | | | | | | | | | | | | |
| 5 | 39-00-0078 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| # | | | | | | Farnell / Element14 | | | | Digi-Key | | | Mouser | | | |
|------|----------------------------|--|---|----------------------|------------|---------------------|-----------------|------------------|-----------------|----------|-------------|-----------------|--------|-----------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | | | | | | 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 X4 | 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; 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 | BM 91103 | Ring terminal; M3; 0.5+1 mm2 | Chassis Earth | Enclosure | 1 | 7356528 | LRB-1.0T-M3 | | 0,102 | 100 | | | | | | |
| 4 | BM01148 | Female quick disconnect | AC switch patch cables | Enclosure | 2 | | | | | | | | | | | |
| 1 | BM01148 | Female quick disconnect | AC inlet Earth (Side B) | Enclosure | 1 | | | | | | | | | | | |
| 2 | BM01148 | Female quick disconnect | Lower AC/DC module power input (Side B) | Enclosure | 2 | | | | | | | | | | | |
| 1 | BM01148 | Female quick disconnect | Cable set #1 | Arduino board | 1 | | | | | | | | | | | |
| | | | | | 6 | 3625424 | STO-1.0T-187N-8 | | 0,057 | 100 | | | | | | |
| 2 | H0.75/14D/GY | Bootlace ferrule; insulated, 0.75mm2 | Cable set #1 | Enclosure | 2 | | | | | | | | | | | |
| 4 | H0.75/14D/GY | Bootlace ferrule; insulated, 0.75mm2 | Cable set #2 | Enclosure | 4 | | | | | | | | | | | |
| | | | | | 6 | 841195 | H0,75/14. | | 0,135 | 100 | | | | | | |
| 2 | H0.75/15D2/GY | Bootlace ferrule, twin entry; insulated, 0.75mm2 | Cable set #1 | Enclosure | 2 | | | | | | | | | | | |
| 3 | H0.75/15D2/GY | Bootlace ferrule, twin entry; insulated, 0.75mm2 | Cable set #2 | Enclosure | 3 | | | | | | | | | | | |
| | | | | | 5 | 1121751 | 9037410000 | | 0,120 | 100 | | | | | | |
| 1 | Cat5E cable, stranded wire | | Ethernet cable | Arduino Shield | 1 | 1734894 | PS11029 | | 1,120 | 1 | | | | | | |
| 0,09 | LGY0.75/25-BR | Insulated wire, stranded, brown, 0.75 mm2 | AC switch patch cables | Enclosure | 0,09 | | | | | | | | | | | |
| 0,2 | LGY0.75/25-BR | Insulated wire, stranded, brown, 0.75 mm2 | Lower AC/DC module power input | Enclosure | 0,2 | | | | | | | | | | | |
| 0,07 | LGY0.75/25-BR | Insulated wire, stranded, brown, 0.75 mm2 | Upper AC/DC module power input | Enclosure | 0,07 | | | | | | | | | | | |
| 0,11 | LGY0.75/25-BR | Insulated wire, stranded, brown, 0.75 mm2 | AUX PS module power input | Enclosure | 0,11 | | | | | | | | | | | |
| | | | | | 0,47 | 2528103 | PP001205 | | 0,239 | 1 | | | | | | |
| 0,09 | LGY0.75/25-BL | Insulated wire, stranded, blue, 0.75 mm2 | AC switch patch cables | Enclosure | 0,09 | | | | | | | | | | | |
| 0,2 | LGY0.75/25-BL | Insulated wire, stranded, blue, 0.75 mm2 | Lower AC/DC module power input | Enclosure | 0,2 | | | | | | | | | | | |
| 0,07 | LGY0.75/25-BL | Insulated wire, stranded, blue, 0.75 mm2 | Upper AC/DC module power input | Enclosure | 0,07 | | | | | | | | | | | |
| 0,11 | LGY0.75/25-BL | Insulated wire, stranded, blue, 0.75 mm2 | AUX PS module power input | Enclosure | 0,11 | | | | | | | | | | | |

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|------|---------------|-------------------------------|----------|---------------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| | | | 215-5887 | 39-00-0078 100pc | 14,100 | 1 | MX-5556-T3L | 0,074 | 10 | | | TME | 0,074 € | 11 | 0,000 |
| 3 | | 08-50-0114 | | | | | | | | | | | | | |
| 2 | | 08-50-0114 | | | | | | | | | | | | | |
| | | | 172-9178 | 08-50-0114 | 0,085 | 100 | MX-0850-0114 | 0,047 | 10 | | | Farnell | 0,030 € | 5 | |
| 21 | | NDR-T | 681-2887 | 122-4777 | 0,041 | 100 | NDR-T | 0,027 | 25 | | | TME | 0,027 € | 21 | 0,048 |
| 1 | | BM 91103 | | | | | BM 91103 | 0,048 | 10 | | | TME | 0,048 € | 1 | |
| 4 | | BM01148 | | | | | | | | | | | | | |
| 1 | | BM01148 | | | | | | | | | | | | | |
| 2 | | BM01148 | | | | | | | | | | | | | 0,281 |
| 1 | | BM01148 | | | | | | | | | | | | | |
| | | | | | | | BM01148 | 0,047 | 10 | | | TME | 0,047 € | 6 | |
| 2 | | H0.75/14D/GY | | | | | | | | | | | | | |
| 4 | | H0.75/14D/GY | | | | | | | | | | | | | 0,140 |
| | | | | | | | H0.75/14D/GY | 0,023 | 20 | | | TME | 0,023 € | 6 | |
| 2 | | H0.75/15D2/GY | | | | | | | | | | | | | |
| 3 | | H0.75/15D2/GY | | | | | | | | | | | | | |
| | | | | | | | H0.75/15D2/GY | 0,036 | 10 | | | TME | 0,036 € | 5 | 1,120 |
| 1 | | Cat5E cable, stranded wire | | | | | CA00600.00C01 | 6,800 | 1 | | | Farnell | 1,120 € | 1 | |
| 0,09 | | LGY0.75/25-BR | | | | | | | | | | | | | |
| 0,2 | | LGY0.75/25-BR | | | | | | | | | | | | | |
| 0,07 | | LGY0.75/25-BR | | | | | | | | | | | | | 0,239 |
| 0,11 | | LGY0.75/25-BR | | | | | | | | | | | | | |
| | | | | | | | LGY0.75/25-BR | 0,340 | 25 | | | Farnell | 0,239 € | 1 | |
| 0,09 | | LGY0.75/25-BL | | | | | | | | | | | | | |
| 0,2 | | LGY0.75/25-BL | | | | | | | | | | | | | |
| 0,07 | | LGY0.75/25-BL | | | | | | | | | | | | | |
| 0,11 | | LGY0.75/25-BL | | | | | | | | | | | | | |

| # | Qty | Part name | Package | Reference designator | Board name | Qty | Farnell / Element14 | | | | Digi-Key | | | Mouser | | |
|------|-----|-------------------|--|--|----------------|-------------|---------------------|---------------------|-----------------|-----|-------------|-----------------|-----|-------------|-----------------|-----|
| | | | | | | | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | | | | | | 0,47 | 2528092 | PP001196 | 0,239 | 1 | | | | | | |
| 0,4 | | LGY0.75/25-RD | Insulated wire, stranded, red , 0.75 mm2 | Cable set #1, Power board X1 cable | Enclosure | 0,4 | | | | | | | | | | |
| 0,33 | | LGY0.75/25-RD | Insulated wire, stranded, red , 0.75 mm2 | Cable set #2, Power board X1 cable | Enclosure | 0,33 | | | | | | | | | | |
| | | | | | | 0,73 | 2528175 | PP001270 | 0,481 | 1 | | | | | | |
| 0,4 | | LGY0.75/25-BK | Insulated wire, stranded, black , 0.75 mm2 | Cable set #1, Power board X1 cable | Enclosure | 0,4 | | | | | | | | | | |
| 0,33 | | LGY0.75/25-BK | Insulated wire, stranded, black , 0.75 mm2 | Cable set #2, Power board X1 cable | Enclosure | 0,33 | | | | | | | | | | |
| | | | | | | 0,73 | 2528082 | PP001186 | 0,481 | 1 | | | | | | |
| 0,4 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | Cable set #1, Power board X1 cable | Enclosure | 0,4 | | | | | | | | | | |
| 0,07 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | Cable set #1, AC/DC module Earth | Enclosure | 0,07 | | | | | | | | | | |
| 0,17 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | Chassis Earth | Enclosure | 0,17 | | | | | | | | | | |
| 0,5 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | Arduino Shield Earth | Enclosure | 0,5 | | | | | | | | | | |
| 0,33 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | Cable set #2, Power board X1 cable | Enclosure | 0,33 | | | | | | | | | | |
| 0,15 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | Cable set #2, AC/DC module Earth | Enclosure | 0,15 | | | | | | | | | | |
| 0,15 | | LGY0.75/25-YL/GR | Insulated wire, stranded, green-yellow , 0.75 mm2 | AUX PS module Earth | Enclosure | 0,15 | | | | | | | | | | |
| | | | | | | 1,77 | 2528140 | PP001239 | 0,481 | 1 | | | | | | |
| 0,24 | | LGY0.35/25-BR | Insulated wire, stranded, any color , max. 0.35 mm2 | AUX temp sensor | Arduino Shield | 0,24 | 2425402 | MC6A-7/0.2T2-BN-100 | 0,095 | 1 | | | | | | |
| 1 | | Arduino USB cable | USB micro to 5-pin receptacle cable, 30 or 50 cm | Search e.g. AliExpress | | 1 | - | | | | | | | | | |
| 1 | | FC10300-0 | Ribbon cable with IDC connectors, 30 cm | | Arduino Shield | 1 | - | | | | | | | | | |

All prices are net prices (without VAT)

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

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|---|---------------|-------------------|------|-------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| | | | | | | | LGY0.75/25-BL | 0,340 | 25 | | | Farnell | 0,239 € | 1 | 0,239 |
| | 0,4 | LGY0.75/25-RD | | | | | | | | | | | | | |
| | 0,33 | LGY0.75/25-RD | | | | | | | | | | | | | |
| | | | | | | | LGY0.75/25-RD | 0,340 | 25 | | | TME | 0,340 € | 1 | 0,248 |
| | 0,4 | LGY0.75/25-BK | | | | | | | | | | | | | |
| | 0,33 | LGY0.75/25-BK | | | | | | | | | | | | | |
| | | | | | | | LGY0.75/25-BK | 0,340 | 25 | | | TME | 0,340 € | 1 | 0,248 |
| | 0,4 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | 0,07 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | 0,17 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | 0,5 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | 0,33 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | 0,15 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | 0,15 | LGY0.75/25-YL/GR | | | | | | | | | | | | | |
| | | | | | | | LGY0.75/25-YL/GR | 0,340 | 25 | | | TME | 0,340 € | 2 | 0,602 |
| | 0,24 | LGY0.35/25-BR | | | | | LGY0.35/25-BR | 0,210 | 25 | | | Farnell | 0,095 € | 1 | 0,095 |
| | 1 | Arduino USB cable | | | | | - | | | | | Farnell | 0,000 € | 1 | 0,000 |
| | 1 | FC10300-0 | | | | | FC10300-0 | 1,040 | 1 | | | TME | 1,040 € | 1 | 1,040 |
| | | | | | | | | | | | | | | | 5,05 € |

Total 285,50 €

PCBA (min. 50 pcs) Estimated 40,00
PCBs (min. 20 pcs) Estimated 30,00
Enclosure (min. 20 pcs) Estimated 51,00
121,00
Estimated total (no shipping costs included): **406,50 €**