| | | | | | | | | Farnell / Element | t14 | Digi-Ke | у | Mouse | |
|----|-----|--------------------|----------------------------|--|----------------|-----|---------|------------------------|----------------|---------------------|----------------|------------------------|------------------|
| # | 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 | 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 | | | | | | | |
| | | 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 | 0603YC104KAT2 A | 0,010 | 06033C104K4T4 A | 0,025 |
| 3 | 1 | 220u 16V | SMD ELCO; Ø6.3 x 7.7mm | C78 | AUX PS | 1 | 1870605 | MCESL16V227M6. | 0,213 10 | 399-6679-1-ND | 0,410 1 | 80- | 0,407 1 |
| 3 | ' | 2200 10V | SIND LLCO, DO.3 X 7.711111 | 070 | AUXF3 | ' | 1070003 | 3X7.7 | 0,213 10 | 399-0079-1-ND | 0,410 1 | EDK227M016A9 | 0,407 |
| 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 | | | | | | | |
| | | | | 0.14 | | 19 | 1759246 | MC0805B103K500 CT | 0,009 10 | CL21B103KBCN NNC | 0,027 | GRM216R71H10 3KA01D | 0,014 |
| 5 | 2 | 10u 50V X7R | 1210 | C90, C110 | Arduino Shield | 2 | | | | | | | |
| | | 10u 50V X7R | 1210 | C10, C16, C22, C24, C29, C30, C55 | Power board | 14 | | | | | | | |
| | | | | | | 16 | 2362133 | GRM32ER71H106 KA12L | 0,748 1 | CL32B106KBJN NWE | 0,335 | GRM32ER71H10 6KA12L | 0,376 |
| 6 | 2 | 10u 10V | 1206, Tantalum | C105, C129 | Arduino Shield | 2 | | | | | | | |
| 0 | | 10u 10V | 1206, Tantalum | C23, C31, C57 | Power board | 6 | | | | | | | |
| | | | , | | | 8 | 1457413 | T491A106K010AT | 0,260 5 | T491A106K010A T | 0,340 | T491A106K010A T | 0,344 |
| 7 | 2 | 120p 50V NP0 | 0805 / 0603 | C17, C39 | Power board | 4 | 1414667 | C0805C121J5GAC | 0,044 10 | CL21C121JBAN NNC | 0,058 | C0805C121J5GA CTU | 0,031 |
| 8 | 2 | 18p 50V NP0 | 0805 / 0603 | C116, C120 | Arduino Shield | 2 | 2320820 | MC0805N180J101 CT | 0,026 10 | CL21C180JBAN NNC | 0,090 | C0805C180J5GA CTU | 0,100 |
| 9 | 2 | 1n 50V NP0 | 0805 / 0603 | C52, C53 | Power board | 4 | 1759227 | MC0805N102J500 CT | 0,029 10 | CL21C102JBCN NNC | 0,065 | C0805C102J5GA CTU | 0,038 |
| 10 | 2 | 1u 100V X7R | 1206, 100V | C8, C33 | Power board | 4 | 2320876 | MC1206B105K101 CT | 0,200 5 | CL31B105KCHN NNE | 0,253 | GRM31CR72A10 5KA01L | 0,227 |
| 11 | 7 | 1u 50V X7R | 0805, 50V | C11, C26, C46, C48, C58, C64, C66 | Power board | 14 | 2118131 | C0805C105K5RAC TU | -, | CL21B105KBFN NNE | 0,129 | 08055C105K4T2 A | 0,135 |
| 12 | | 22n 50V X7R | 0805 | C115 | Arduino Shield | | 1759252 | MC0805B223K500 CT | | CL21B223KBAN NNC | 0,058 | C0805C223K5R AC | 0,031 |
| 13 | | 2n2 50V NP0 | 0805 / 0603 | C36, C37, C38, C40, C71 | Power board | | 1759236 | MC0805N222J500 CT | | CL21C222JBFN NNG | | GRM2165C1H22 2JA01D | 0,076 |
| 14 | | 3n3 50V X7R or NP0 | 0805 / 0603 | C60, C61, C67, C68 | Power board | | 1759291 | MC0805B332K101 CT | 0,015 10 | CL21B332KBAN NNC | 0,045 | C0805C332K5R AC | 0,024 |
| 15 | | 470n 50V X7R | 0805, 50V | C7 | Power board | 2 | | | | | | | |
| | 2 | 470n 50V X7R | 0805, 50V | C87, C92 | Arduino Shield | 2 | l | | | | | | |

| | | | | RS Componer | nts | | TME | | | | Р | rice calcula | tion fo | r 1 set |
|----|-----|--------------------|----------|-------------------------|------------|-----|-----------------------|------------|-----|----------|----------|-----------------|---------|-------------|
| # | 0. | 5 . | 0 1 | | Unit price | | 0.1.15.11 | Unit price | | TUT 0115 | Post | Lowest | Order | |
| | Qty | Part name | Code | Part Number | € | MOQ | Code / Part Number | € | MOQ | THT SMC | Supplier | unit price € | 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 | 0,004 | 50 | CL10B104KO8NNNC | 0,004 | 100 | 66 | RS | 0,004 € | 100 | 0,400 |
| | | | | Α | | | | | | | | | | |
| 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 | 0,601 | 10 | CL32B106KBJNNNE | 0,201 | 10 | 16 | TME | 0,201€ | 16 | 3,216 |
| | | | | NNE | ., | | | -, - | | | | ., | | |
| • | _ | 40401/ | | | | | | | | | | | | |
| 6 | 2 | 10u 10V 10u 10V | | | | | | | | | | | | |
| | | 100 100 | 538-2278 | T491A106K010A | 0,196 | 10 | T491A106K010AT | 0,085 | 10 | 8 | TME | 0,085€ | 10 | 0,845 |
| | | | | T | | | | | | | | | | |
| 7 | 2 | 120p 50V NP0 | 723-6209 | GRM2165C1H1 | 0,035 | 100 | CL21C121JBANNNP | 0,007 | 100 | 4 | TME | 0,007 € | 10 | 0,069 |
| , | _ | 120p 30V 141 0 | 725-0209 | 21JA01D | 0,000 | 100 | OLZ TO 12 ISBANININI | 0,007 | 100 | 7 | IIVIL | 0,007 C | 10 | 0,003 |
| 8 | 2 | 18p 50V NP0 | 648-0935 | C0805C180J5G | 0,157 | 10 | CL21C180JBANNNC | 0,071 | 100 | 2 | Farnell | 0,026 € | 2 | 0,053 |
| 9 | 2 | 1n 50V NP0 | 378-710 | ACTU 0805CG102J9B | 0,021 | 25 | CL21C102JBCNNNC | 0,010 | 100 | 4 | TME | 0,010€ | 10 | 0,097 |
| 3 | | III 30V NFO | 370-710 | B | 0,021 | 23 | CL2 IC 1023BCINING | 0,010 | 100 | 7 | I IVIL | 0,010 € | 10 | 0,097 |
| 10 | 2 | 1u 100V X7R | 740-7590 | C3216X7R2A10 | 0,174 | 10 | GRM31CR72A105KA0 | 0,128 | 10 | 4 | TME | 0,128 € | 10 | 1,279 |
| 11 | 7 | 1u 50V X7R | 766-1062 | 5K160AA CL21B105KBFN | 0,041 | 100 | 1L CL21B105KBFNNNG | 0,014 | 100 | 14 | TME | 0,014 € | 15 | 0,214 |
| | , | 10 000 7/11 | 700 1002 | NNF | 0,041 | 100 | OLZ IB IOONBI WWW | 0,014 | 100 | 1-7 | I IVIL | 0,014 C | 10 | 0,214 |
| 12 | 1 | 22n 50V X7R | 464-6701 | 08055C223KAT2 | 0,015 | 50 | CL21B223KBANNNC | 0,008 | 100 | 1 | TME | 0,008€ | 10 | 0,084 |
| 13 | 5 | 2n2 50V NP0 | 802-9905 | A C0805C222J5G | 0,043 | 100 | GRM2165C1H222JA0 | 0,015 | 100 | 10 | TME | 0,015€ | 10 | 0,145 |
| | Ū | | | ACTU | 3,0.0 | | 1D | | | .0 | | | | |
| 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 | | 32NAU ID | | | | | | | | | | |
| | | 470n 50V X7R | | | | | | | | | | | | |
| | | | | | | | • | | | • | • | | | |

| | | | | | | | | Farnell / Element | 14 | Digi-Ke | у | Mouse | r |
|----------|-----|---|--|---------------------------------------|----------------------------|--------|---------|--------------------------|----------------|------------------------|----------------|------------------------|----------------|
| # | 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 | | 47n 50V X7R | 0805 | C133, C140 | Arduino Shield | 2 | | | | | | | |
| | 1 | 47n 50V X7R | 0805 | C79 | AUX PS | 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 | | 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 | | 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 | 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 | | | | | | | |
| 00 | 4 | 4-7 400V VZD | 0005 | 04 00 04 040 | Dawaahaaad | 4 | 9695931 | EEEFK1H470P | 0,622 1 | PCE3815CT-ND | 0,600 1 | 667-EEE- FK1H470P | 0,754 1 |
| 22 | | 4n7 100V X7R 4n7 100V X7R | 0805 0805 | C1, C2, C4, C18 C88, C91, C93, C95 | Power board Arduino board | 8 4 | | | | | | | |
| | | 4117 100V X/TX | 0003 | 000, 031, 033, 033 | Arddino board | 12 | 1759293 | MC0805B472K101 CT | 0,019 10 | CL21B472KCAN NNC | 0,065 | GRM21AR72D47 2KW01D | 0,050 |
| 22 | 4 | 47 40\/ | 1006 Tantalum | C130 | Arduina Chiald | 4 | | | | | | | |
| 23 | | 4u7 10V 4u7 10V | 1206, Tantalum 1206, Tantalum | C130 | Arduino Shield Power board | 1 2 | | | | | | | |
| | • | 147 107 | 1200, Tuntaian | 021 | i ower board | 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 | | 6n8 (X1 / Y2) PP Film 300Vac 1000Vdc | THT R=10mm | C75 | AUX PS | | 2478385 | R413F16804000M | 0,528 1 | R413F16804000 M | 0,520 | R413F16804000 M | 0,525 |
| 27 | | 1F 5,5V Backup Cap | THT | C112 | Arduino Shield | | 9697497 | EEC-S5R5H105 | 4,660 1 | EEC-S5R5H105 | 3,480 | EEC-S5R5H105 | 3,510 |
| 28 29 | | 100u 63V 18u 50V | SMD ELCO; Ø10 x 10.2mm | C15 C3 | Power board | 2 | 9696040 | EEEFK1J101P | 0,846 1 | EEE-FK1J101P | 0,930 | EEE-FK1J101P | 0,932 |
| 29 | | 18u 50V | SMD ELCO Polymer; Ø8x6.3mm SMD ELCO Polymer; | C86, C96 | Power bord Arduino Shield | 2 | | | | | | | |
| | 2 | 16u 30 v | Ø8x6.3mm | C60, C90 | Aldullio Silleid | | 2354813 | 50SVPF18M | 1,830 1 | P18942CT-ND | 1,430 1 | 667-50SVPF18M | 1,720 1 |
| | | | | | | 7 | 2007010 | 330 VI I TOWN | 1,000 1 | 1007201-110 | 1,700 1 | 1007 000 VI I 101VI | 1,720 1 |
| 30 | | BAS316 | SOD-323 | D12 | AUX PS | 1 | | | | | | | |
| | | 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 | | | | | | | |

| | | | | DO 0 | | | | ource code at - | πιμδ. | //gitilub | .00/11/6 | | | | . 4 1 |
|----------|-----|---|---------------------|--|-----------------|-----|----------------------|--------------------|-------|-----------|----------|------------------|---------------------|--------------|----------------|
| # | | | | RS Componer | | | TME | | | | | Pr | ice calcula | tion fo | r 1 set |
| # | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | 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 | | 470p 50V NP0 47n 50V X7R | 378-700 | 0805CG471J9B B | 0,021 | 25 | CL21C471JBANNNC | 0,009 | 100 | | 4 | TME | 0,009€ | 2 | 0,018 |
| 17 | 1 | 47n 50V X7R | 391-303 | 08055C473KAT2 | 0,011 | 50 | CC0805KRX7R9473 | 0,008 | 100 | | 3 | TME | 0,008€ | 3 | 0,025 |
| | | | | Α | | | | | | | | | | | |
| 18 | 1 | 47n 400V Polyester Film | 668-9993 | B32520C6473K1 89 | 0,241 | 10 | - | | | 1 | | RS | 0,241 € | 1 | 0,241 |
| 19 | | 47p 50V NP0 | 264-4270 | C0805C470J5G ACTU | 0,014 | 25 | CC0805JRNPO9470 | 0,007 | 100 | | 4 | TME | 0,007 € | 10 | 0,074 |
| 20 | | 47u 35V | | | | | | | | | | | | | |
| | 2 | 47u 35V | 565-623 | EEEFK1V470AP | 0,165 | 5 | EEEFK1V470P | 0,157 | 5 | | 3 | TME | 0,157 € | 10 | 1,572 |
| 21 | | 47u 50V | | | | | | | | | | | | | |
| | 2 | 47u 50V | 537-0590 | EEEFK1H470P | 0,170 | 5 | EEEFK1H470P | 0,197 | 5 | | 4 | RS | 0,170 € | 5 | 0,850 |
| 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 25 | 2 | 4u7 100V X7R 6n8 50V X7R or NP0 | 915-5415 147-825 | CGA6M3X7S2A 475K200AB C0603C682K5R | 0,686 | | - CL10B682JB8NNNC | 0,004 | 100 | | 2 | RS TME | 0,686 € | 10 | 2,744 0,042 |
| 25 | _ | ONO SOV X/IX OF INFO | 147-023 | ACTU | 0,007 | 30 | CE TODOO23DOININO | 0,004 | 100 | | 2 | I IVIL | 0,004 C | 10 | 0,042 |
| 26 | | 6n8 (X1 / Y2) PP Film 300Vac 1000Vdc | 871-2489 | 890334023003C S | 0,420 | | MKP-Y2-6N8 | 0,158 | 5 | 1 | | TME | 0,158 € | 1 | 0,158 |
| 27 | | 1F 5,5V Backup Cap | 339-6843 | EECS5R5H105 | 3,556 | | EECS5R5H105 | 2,190 | 1 | 1 | 0 | TME | 2,190 € 0,380 € | 1 | 2,190 |
| 28 29 | 2 | 100u 63V 18u 50V | 708-3623 | EEEFK1J101P | 0,641 | 5 | EEEFK1J101P | 0,380 | 5 | | 2 | TME | 0,360 € | 2 | 0,760 |
| | 2 | 18u 50V | | | | | | | | | | | | | |
| | | | - | | | | - | | | | 4 | Digikey | 1,430 € | 5 | 7,150 |
| | | | | | | | | | | | | | | | |
| 30 | | BAS316 | | | | | | | | | | | | | |
| | 6 | BAS316 | | | | | | | | | | | | | |
| | 9 | BAS316 | | | | | | | | | | | | | |

| | | | | | | | | Farnell / Element | t14 | Digi-Ke | у | Mouse | r |
|----|-----|--------------------|-------------------|----------------------|----------------|---------|---------|------------------------|----------------|------------------------|----------------|--------------------------|----------------|
| # | 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 |
| | | | | | | 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 | | SKL16 | SOD-323 | D11 | AUX PS | 1 | | | 2,120 | | 2,100 | | 2,1.10 |
| | 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 | | 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 | | 60R@100MHz | 0603 Ferrite Bead | FB1, FB2, FB3 | Power board | 6 | | | | | | | |
| | | 60R@100MHz | 0603 Ferrite Bead | FB4, FB5, FB6 | AUX PS | 3 | | | | | | | |
| | 1 | 60R@100MHz | 0603 Ferrite Bead | FB7 | Arduino Shield | 1 10 | 1625704 | 740700600 | 0,210 1 | 742792602 | 0.210 | 742792602 | 0.160 |
| | | | | | | 10 | 1635704 | 742792602 | 0,210 1 | 742792002 | 0,210 | 742792002 | 0,160 |
| 36 | 1 | LTC3864EMSE#PBF | MSOP-12 | IC1 | Power board | 2 | 2293128 | LTC3864EMSE#PB F | 3 4,520 1 | LTC3864EMSE# PBF | 3,960 | - | |
| 37 | | DAC8552IDGKTG4 | MSOP-8 (VSSOP-8) | IC10 | Power board | | 1329584 | DAC8552IDGKTG4 | | DAC8552IDGKT | 7,660 | DAC8552IDGKR | 6,510 |
| 38 | | ADG465BRTZ | SOT-23 | IC11 | Power board | | 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 | | 2402249 | ADS1120IPWR | 6,760 1 | ADS1120IPWR | 6,250 | ADS1120IPWR | 6,100 |
| 41 | | LP339D | SOIC-14 | IC14 | Power board | | 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 | ADUM3160BRW Z-ND | 7,290 1 | 584- ADUM3160BRW Z | 6,660 1 |
| 45 | | TLC5925IDBQR | SSOP-24 | IC18 | Arduino Shield | 1 | 1694438 | TLC5925IDBQR | 1,520 1 | TLC5925IDBQR | 1,370 | TLC5925IDBQR | 1,330 |
| 46 | | Si8641EC-B-IS1 | SOIC-16 | IC19, IC23 | Arduino Shield | | 2423294 | Si8641EC-B-IS1 | 3,210 1 | Si8641EC-B-IS1 | 2,780 | Si8641EC-B-IS1 | 2,720 |
| 47 | | LP2951D | SOIC-8 | IC2 | Power board | 2 | 1755066 | LP2951D | 0,573 1 | LP2951DR | 0,520 | LP2951DR | 0,498 |
| 48 | | 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 | , | PCA21125T/Q90 0/1,1 | 1,610 | PCA21125T/Q90 0/1,1 | 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 |
| 52 | 1 | W5500 | LQFP-48 | IC26 | Arduino Shield | 1 | - | | | W5500 | 3,750 | W5500 | 2,390 |
| 53 | | BC857BS | SOT-363 | IC27 | Arduino Shield | 1 | 1653608 | BC857BDW1T1G | 0,141 1 | BC857BDW1T1G | 0,210 | BC857BDW1T1G | |
| 54 | 1 | TLC555 | SOIC-8 | IC28 | Arduino Shield | 1 | 9589880 | NE555DR | 0,300 1 | NE555D | 0,350 | NE555D | 0,353 |

| | | | | | | | | | πιμο. | //github.com/e | | | | |
|----------|-----|--------------------------|----------------------|-------------------------|-----------------|-----|--------------------|-----------------|-------|----------------|------------------|---------------------------|--------------|----------------|
| | | | | RS Componer | nts | | TME | | | | Pr | rice calcula | tion fo | r 1 set |
| # | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| | | | 397-2914 | BAS316,115 | 0,195 | 50 | BAS316,115 | 0,019 | 25 | 25 | TME | 0,019€ | 25 | 0,463 |
| 31 32 | 1 | BAT54S SKL16 | 670-8797 | BAT54S | 0,202 | 10 | BAT54S.215 | 0,017 | 50 | 1 | TME | 0,017€ | 1 | 0,017 |
| | 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 60R@100MHz | | | | | | | | | | | | |
| | 1 | 60R@100MHz | 669-4049 | 742792602 | 0,172 | 10 | LCBA-600 | 0,027 | 25 | 10 0 | 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 € | | 1,068 |
| 40 | | ADS1120IPWR | - | | | | - | | | 2 | Mouser | 6,100 € | 2 | 12,200 |
| 41 42 | | LP339D TPD4E002DRLR | 661-2659 709-9060 | LP339DR TPD4E002DRLR | 0,175 0,199 | | LP339D - | 0,244 | 3 | 2 1 | RS RS | 0,175 € 0,199 € | | 0,350 0,199 |
| 43 | 1 | TPD2E001DZDR | 812-0171 | TPD2E001DZDR | 0,193 | 25 | - | | | 1 | RS | 0,193€ | 3 | 0,579 |
| 44 | 1 | ADUM3160BRWZ | 796-9041 | ADUM3160BRW Z | 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 | | 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 | | SI8651EC-B-IS1 | 753-2497 | Si8651EC-B-IS1 | 3,038 | | - - - | 0.045 | 0 | 2 | RS | 3,038 € | 2 | 6,076 |
| 49 | | LD1117ADT33TR | 086-9123 | LD1117ADT33T R | 0,294 | 10 | LD1117ADT33 | 0,315 | 3 | 1 | RS | 0,294 € | | 0,294 |
| 50 | | PCA21125T/Q900/1,1 | 700 0070 | ATOFOCO | 4 00= | 0 | 0544050 1/051 | 4.000 | 1 | 1 | Digikey | 1,610 € | | 1,610 |
| 51 | | AT25256B | 738-0079 | AT25256B- SSHL-B | 1,267 | 2 | 25AA256-I/SN | 1,290 | | 1 | Farnell | 1,190 € | | 1,190 |
| 52 53 | 1 | W5500 BC857BS | - 690-0101 | BC857BDW1T1 G | 0,022 | 25 | W5500 BC857BS | 2,190 0,027 | | 1 1 | TME RS | 2,190 € 0,022 € | | 2,190 0,022 |
| 54 | 1 | TLC555 | 662-4006 | TLC555CDR | 0,218 | 10 | TLC555CDR | 0,384 | 3 | 1 | RS | 0,218€ | 1 | 0,218 |

| | | | | | | | | Farnell / Element | t14 | | | Digi-Ke | у | | Mouser | • | |
|----|-----|--------------------------------------|--|--|--------------------------|--------|---------|-------------------------|------|---------|-----|-------------------------|--------------|-----|---------------------------|-----------------|-----|
| # | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit | price N | ЛОQ | Part Number | Unit price M | IOQ | Part Number | Unit price € | MOQ |
| 55 | 1 | SN74LVC08APWR | SSOP-8 | IC29 | Arduino Shield | 1 | 1102978 | SN74LVC08APWR | | 0,236 | 1 | 296-1221-1-ND | 0,350 | 1 | 595- SN74LVC08APW R | 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 | SN74LV1T34DB VR | 0,410 | | SN74LV1T34DB VR | 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 | SN74LVC2G02D CTR | 0,590 | | SN74LVC2G02D CTR | 0,570 | |
| 60 | | LTC3260EMSE#PBF | MSOP-16 | IC4 | Power board | 2 | 2115838 | LTC3260EMSE#PB F | | 7,660 | | LTC3260EMSE# PBF-ND | ., | 1 | - | | |
| 61 | 2 | TL072CD | SOIC-8 | IC5, IC6 | Power board | 4 | 1467663 | TL072CDT | | 0,252 | 5 | TL072CDT | 0,430 | | TL072CDT | 0,416 | |
| 62 | | LTC2050HVCS8#PBF | SOIC-8 | IC7 | Power board | | 1330903 | LTC2050HVCS8#P BF | | 2,110 | | LTC2050HVCS8 #PBF-ND | , | 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 | | REF5025AIDG4 | SOIC-8 | IC9 | Power board | | 1439622 | REF5025AIDG4 | | -, | 1 | REF5025AIDR | 2,990 | | REF5025AIDR | 2,910 | |
| 65 | | 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 | | RT424005 RT424005 | THT | K_PAR, K_SER K_DOUT2 | Arduino Shield AUX PS | 2 1 | | | | | | | | | | | |
| | I | K1424005 | Ini | K_D0012 | AUX F3 | 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 | | 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 | - | | | | | | | | | | |
| | | Washer externally serrated M3, D=6mm | For mounting Q21, Q22 to KK1 | | AUX PS | | 7096471 | 6797/3.0 | | 1,870 | 100 | | | | | | |
| | | 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 | | IHLP2020CZER3R3M11 | SMD; 5.49mm x 5.18mm | L3, L4 | Power board | | 1741325 | IHLP2020CZER3R 3M11 | | 1,410 | | IHLP2020CZER3 R3M11 | 2,160 | | IHLP2020CZER3 R3M11 | 1,030 | |
| 73 | | TFT_320QVT | THT; 2x20-pin socket | LCD1 | Arduino Shield | | 7992033 | M20-7832046 | | 2,750 | | M20-7832046 | 3,160 | | M20-7832046 | 2,530 | |
| 74 | | HSMG-C170 | 0805 Green | LED_O1, LED_O2 | Arduino Shield | 2 | 5790852 | HSMG-C170 | | 0,204 | | 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 | |
| 76 | 1 | HSMD-C170 | 0805 Orange | LED_PWR | Arduino Shield | 1 | 5790864 | HSMD-C170 | | 0,240 | | 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 | |

| | | | | | | | Project so | ource code a | t nttps. | ://github.com | eez-open | | | |
|----|-----|--------------------------------------|----------------------|--------------------------------------|-----------------|-----|--------------------|-----------------|----------|---------------|------------------|---------------------------|--------------|-------------|
| | | | | RS Componer | nts | | TME | | | | Pı | rice calcula | tion fo | r 1 set |
| # | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 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 € | | 0,252 |
| 60 | 1 | LTC3260EMSE#PBF | 851-6768 | LTC3260EMSE# | 5,800 | | - | | _ | 2 | RS | 5,800 € | | 11,600 |
| 61 | 2 | TL072CD | 857-907P | TL072CD | 0,252 | | TL072CD | 0,164 | 3 | 4 | TME | 0,164 € | | 0,654 |
| 62 | 1 | LTC2050HVCS8#PBF | 822-6746 669-6452 | LTC2050HVCS8 #PBF-ND MCP23S17- | 2,155 | | MOD22017 F/00 | 1 200 | 1 | 2 | Farnell | 2,110 € | | 4,220 |
| 63 | 1 | MCP23S17-E/SS | 009-0452 | E/SS | 1,168 | 5 | MCP23S17-E/SS | 1,290 | ı | 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 | 100 0000 | DTE04005 | 4.070 | | DT 40 4005 | 4.000 | | | T1.45 | 1 000 6 | • | 0.700 |
| | | | 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 € | | 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 | | | TME | 0,008€ | | 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 € | | 4,120 |
| 73 | | TFT_320QVT | 681-6851 | M20-7832046 | 3,027 | | ZL262-40DG | 0,329 | 2 | 1 | TME | 0,329€ | | 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 |
| 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 |

| | | | | | | | | Farnell / Element14 | | | Digi-Key | | Mouser | |
|----|-----|------------------------|--|-------------------------|----------------|-----|---------|----------------------|-----------------|-----|---------------------------|---------------|----------------------|----------------|
| # | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number L | Init price € | MOQ | Part Number ^{Uı} | nit price MOQ | Part Number | Jnit price MOQ |
| 78 | 1 | 10K/Beta:3570K | 0805 | NTC1 | Power board | 2 | 1612623 | NTCS0805E3103J MT | 0,413 | 1 | NTCS0805E3103 JMT | 0,250 | NTCS0805E3103 JMT | 0,145 |
| 79 | 1 | MOC3052 | SMD; SDIP-6 | OK1 | AUX PS | | 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 | | 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 | | IRFR48ZPB | TO-252 | Q14 | Power board | 2 | 1013388 | IRFR48ZPBF | 1,310 | 1 | IRFR48ZTRLPBF CT-ND | 1,090 1 | 942- IRFR48ZPBF | 1,110 1 |
| 88 | | 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 | 5 | 0R | 0805 | JP1, JP2, JP3, R6, R56 | Power board | 10 | | | | | | | | |
| | 5 | 0R | 0805 | JP4, JP5, JP6, JP7, JP8 | Arduino Shield | 5 | | | | | | | | |
| | | | | | | 15 | 9233750 | RC0805JR-070RL | 0,010 | 10 | RC2012J000CS | 0,014 | RC0805JR- 070RL | 0,012 |

| | | | | | | | | ource code a | ι πιμδ. | //yıtılul | J.COIII/E | | | | |
|----|-----|------------------------|----------|--------------------|-----------------|-----|--------------------|-----------------|---------|-----------|-----------|------------------|---------------------|--------------|-------------|
| 4 | | | | RS Componer | | | TME | | | | | Pr | ice calcula | ition fo | r 1 set |
| # | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 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 | | 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 | | IRFR5305PBF | 0,994 | | IRFR5305PBF | 0,540 | | | 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 | | MMBT5551 | 0,020 | 25 | | 10 | TME | 0,020 € | | 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 | | 0R | | | | | | | | | | | | | |
| | 5 | 0R | | | | | | | | | | | | | |
| | | | 670 0000 | CRCW08050000 | 0.020 | 50 | SMD0805-0R | 0.006 | 100 | | 15 | TME | 0.006.6 | 15 | 0.000 |
| | | | 079-0000 | Z0EA | 0,020 | 50 | SIVIDUOUS-UK | 0,006 | 100 | | 15 | TME | 0,006 € | 15 | 0,090 |
| | | | | | | | | | | ı | | | | | |

| | | | | | | | | Farnell / Element | 14 | | Digi-Key | 1 | Mouse | r |
|-----|-----|-----------------------|---|--|-------------------------------|----------|---------|---------------------|-----------------|-----|------------------------|----------------|---------------------------------|------------------|
| # | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | 1OQ | Part Number | Unit price MOQ | Part Number | Unit price MOQ € |
| 94 | 6 | 100K 1% | 0805 | R12, R15, R22, R23, R73, R75 | Power board | 12 | | | | | | | | |
| • | | 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 | | | | | | | | |
| | | 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 | | | | | | | | |
| | | 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 |
| 98 | 1 | 10R 1% | 1206 | R143 | Arduino Shield | 1 | | | | | | | | |
| 30 | | 10R 1% | 1206 | R9, R33, R81 | Power board | 6 | | | | | | | | |
| | | | | , | | | 9236643 | RC1206FR-0710RL | 0,017 | 10 | RC1206FR- 0710RL | 0,029 | RC1206FR- 0710RL | 0,022 |
| | 4 | 401/4 40/ | 0005 | Ditt | Andria Obiald | | 0444050 | NACO41N/0005440K4 | 0.000 | 40 | DOGGET | 0.000 | DOGGET | 0.004 |
| 99 | | 12K4 1% | 0805 | R144 | Arduino Shield | | 2141850 | MC01W0805112K4 | 0,002 | | RC0805FR- 0712K4L | 0,090 | RC0805FR- 0712K4L | 0,091 |
| 100 | | 18-22R / 7W 16K 1% | THT, RM 5mm, radial, max. Height 40 mm 0805 | R103 R17, R34 | AUX PS | | 1687978 | SQM7-22RJI | 0,474 | | SQMW722RJ RC0805FR- | 0,590 | 280-PRM7-20- RC RC0805FR- | 0,378 |
| 101 | | | | | Power board | | 9332677 | MC01W0805116K | | | 0716KL | 0,019 | 0716KL | 0,015 |
| 102 | | 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 | | 1K 1% | 0805 | R114, R120 | AUX PS | 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 |
| 404 | 0 | 11/0 10/ | 0005 | D24 D55 | Dower be seed | | | | | | | | | |
| 104 | | 1K8 1% 1K8 1% | 0805 0805 | R24, R55 R130, R151 | Power board Arduino Shield | 4 2 | | | | | | | | |
| | ۷ | 110 170 | 0000 | 11100, 11101 | , additio Stileid | 6 | 2447595 | MCWR08X1801FT L | 0,006 | 10 | RC0805FR- 071K8L | 0,019 | RC0805FR- 071K8L | 0,015 |
| 105 | 2 | 1R 1% | 0805 | R129, R132 | Arduino Shield | 2 | 2141629 | MC01W080511R0 | 0,002 | 10 | RC0805FR- 071RL | 0,090 | RC0805FR- 071RL | 0,091 |

| | | | | RS Componer | nts | | TME | | | | | Pr | ice calcula | tion fo | r 1 set |
|-----|-----|--------------------|----------|-------------------|-----------------|------------|--------------------|-----------------|-----|------|-------|----------|-------------------|---------|-------------|
| # | Qty | Part name | Code | Part Number | Unit price € | MOO | Code / Part Number | Unit price € | MOO | тыт | SMD | Best | Lowest unit price | Order | Line Cost € |
| | Qty | Fait Haille | Code | Fait Number | € | MOQ | Code / Part Number | € | MOQ | 1111 | SIVID | Supplier | € | Qty | Line Cost € |
| | | | | | | | | | | | | | | | |
| 94 | | 100K 1% 100K 1% | | | | | | | | | | | | | |
| | | 100K 1% | | | | | | | | | | | | | |
| | _ | 10011 170 | 223-0691 | CRG0805F100K | 0,007 | 50 | SMD0805-100K-1% | 0,008 | 100 | | 15 | RS | 0,007 € | 15 | 0,105 |
| | | | | | | | | | | | | | | | |
| 05 | 2 | 100K 0.1% | 666 0670 | CDE000ED400K | 0 112 | - | DN72C2A400KDTDE | 0.512 | 2 | | 4 | Mouser | 0.005.6 | 4 | 0.200 |
| 95 | 2 | 100K 0.1% | 666-2673 | CPF0805B100K E | 0,112 | 5 | RN73C2A100KBTDF | 0,513 | 2 | | 4 | Mousei | 0,095€ | 4 | 0,380 |
| 96 | | 100R 1% | | | | | | | | | | | | | |
| | | 100R 1% | | | | | | | | | | | | | |
| | 3 | 100R 1% | 679-0807 | CRCW0805100 | 0,031 | F 0 | RC0805FR-07100R | 0,008 | 100 | | 8 | Formall | 0,002€ | 10 | 0,020 |
| | | | 079-0007 | RFKEA | 0,031 | 50 | KC0003FK-07100K | 0,006 | 100 | | 0 | Farnell | 0,002 € | 10 | 0,020 |
| | | | | | | | | | | | | | | | |
| 97 | | 10K 1% | | | | | | | | | | | | | |
| | 5 | 10K 1% | | | | | | | | | | | | | |
| | 18 | 10K 1% | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 223-0562 | CRG0805F10K | 0,021 | 50 | RC0805FR-0710K | 0,008 | 100 | | 43 | TME | 0,008€ | 50 | 0,385 |
| | | | | | | | | | | | | | | | |
| 98 | 1 | 10R 1% | | | | | | | | | | | | | |
| 30 | | 10R 1% | | | | | | | | | | | | | |
| | | | 740-9085 | CR1206-FX- | 0,028 | 50 | CRCW120610R0FKTA | 0,014 | 100 | | 7 | TME | 0,014 € | 10 | 0,137 |
| | | | | 10R0ELF | | | BC | | | | | | | | |
| 99 | 1 | 12K4 1% | 679-0863 | CRCW080512K | 0,008 | 50 | | | | | 1 | Farnell | 0,002€ | 10 | 0,023 |
| 55 | | 1214 170 | 070 0000 | 4FKEA | 0,000 | 00 | | | | | • | Tarrion | 0,002 C | 10 | 0,020 |
| 100 | 1 | 18-22R / 7W | 199-8087 | SQMW722RJ | 0,725 | 5 | - | | | 1 | | Mouser | 0,378 € | 1 | 0,378 |
| 101 | 2 | 16K 1% | 679-0920 | CRCW080516K | 0,014 | 50 | SMD0805-16K-1% | 0,008 | 100 | | 4 | Farnell | 0,002€ | 10 | 0,020 |
| 101 | _ | 10K 1/0 | 019-0920 | 0FKEA | 0,014 | 30 | 3WD0003-10K-176 | 0,000 | 100 | | 7 | 1 amen | 0,002 € | 10 | 0,020 |
| 102 | 4 | 180R 1% | 223-0326 | CRG0805F180R | 0,006 | 50 | SMD0805-180R-1% | 0,008 | 100 | | 4 | Farnell | 0,024 € | 10 | 0,240 |
| 103 | 2 | 1K 1% | | | | | | | | | | | | | |
| 103 | | 1K 1% | | | | | | | | | | | | | |
| | | 1K 1% | | | | | | | | | | | | | |
| | | | 223-0427 | CRG0805F1K0 | 0,013 | 50 | RC0805FR-071K | 0,008 | 100 | | 14 | TME | 0,008 € | 15 | 0,116 |
| | | | | | | | | | | | | | | | |
| 104 | 2 | 1K8 1% | | | | | | | | | | | | | |
| | | 1K8 1% | | | | | | | | | | | | | |
| | | | 679-1033 | CRCW08051K8 | 0,011 | 50 | SMD0805-1K8-1% | 0,008 | 100 | | 6 | Farnell | 0,006€ | 10 | 0,063 |
| | | | | 0FKEA | | | | | | | | | | | |
| 105 | 2 | 1R 1% | 721-5631 | ERJ6BQF1R0V | 0,246 | 5 | RC0805FR-071R | 0,009 | 100 | | 2 | Farnell | 0,002€ | 10 | 0,022 |
| | _ | | | | 3,2 .0 | - | | 3,000 | | | - | | 2,302 C | . • | 0,022 |

| | | | | | | | | Farnell / Element | t14 | | Digi-Key | , | | Mouser | , | |
|-----|------|-----------------------|---------|--|----------------|---------|---------|---------------------|-----------------|----|-----------------------|-----------------|-----|------------------------------|-----------------|-----|
| # | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | DQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 106 | 2 2 | 24K <mark>0.1%</mark> | 0805 | R44, R54 | Power board | 4 | 1670195 | ERA3AEB243V | 0,184 1 | 0 | YAG1843CT-ND | 0,330 | 1 | 660- RN732ATTD2402 B25 | 0,292 | 1 |
| 107 | 2 2 | 22R 1% | 0805 | R124, R125 | AUX PS | 2 | 2447609 | MCWR08X22R0FT L | 0,007 1 | 0 | 0603YC104KAT2 A | 0,090 | 1 | 603-RC0805FR- 0722RL | 0,094 | 1 |
| 108 | 11 2 | 220R 1% | 0805 | R21, R31, R35, R36, R41, R47, R57, R76, R77, R79, R80 | Power board | 22 | | | | | | | | | | |
| | 3 2 | 220R 1% | 0805 | R110, R113, R118 | AUX PS | 3 | | | | | | | | | | |
| | 1 : | 220R 1% | 0805 | R166 | Arduino Shield | 1 26 | 1099795 | WCR0805-220RFI | 0,024 1 | 0 | RC0805FR- 07220RL | 0,019 | | RC0805FR- 07220RL | 0,015 | |
| 109 | 2 ' | 2K 0.1% | 0805 | R60, R70 | Power board | 4 | 1670231 | ERA6AEB202V | 0,259 1 | ^ | P2.0KDACT-ND | 0,370 | 1 | 667-ERA- | 0,547 | 1 |
| | | 2K 0.1% 2K2 1% | 0805 | R106, R107, R119 | AUX PS | 3 | 10/0231 | ERAUAEDZUZV | 0,259 | U | PZ.UNDAC I-ND | 0,370 | ' | 007-ERA- | 0,547 | |
| 110 | | 2K2 1% | 0805 | R29, R30, R32, R45, R59, R61, R64, R90, R93 | Power board | 18 | | | | | | | | | | |
| | | | | | | 21 | 9237534 | RC0805FR-072K2L | _ 0,011 1 | 0 | RC0805FR- 072K2L | 0,019 | | RC0805FR- 072K2L | 0,015 | |
| 111 | 1 : | 2R2 5% / 2W | 2512 | R26 | Power board | 2 | 1376975 | RC2512JK- 7W2R2L | 0,557 1 | 0 | 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 1 | 0 | RC0805FR- 07330KL | 0,090 | 1 | RC0805FR- 07330KL | 0,091 | 1 |
| 113 | 2 : | 330R 1% | 0805 | R83, R101 | Power board | 4 | 9333037 | MC01W08051330R | 0,002 1 | 0 | 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 1 | 0 | RHC2512FT330R | 0,760 | | 3521330RFT | 0,580 | |
| 115 | 2 4 | 470R 1% | 0805 | R37, R50 | Power board | 4 | 1099798 | WCR0805-470RFI | 0,024 1 | 0 | RC0805FR- 07470RL | 0,019 | | RC0805FR- 07470RL | 0,015 | |
| 116 | 2 4 | 47K 1% | 0805 | R154, R158 | Arduino Shield | 2 | | | | | | | | | | |
| | 7 4 | 47K 1% | 0805 | R5, R66, R67, R85, R86, R87, R100 | Power board | 14 | | | | | | | | | | |
| | | | | | | 16 | 2447664 | MCWR08X4702FT L | 0,006 1 | 0 | RC0805FR- 0747KL | 0,019 | | RC0805FR- 0747KL | 0,015 | |
| 117 | 11 4 | 4K7 1% | 0805 | R126, R127, R128, R131, R133, R136, R137, R156, R159, R161, R162 | Arduino Shield | 11 | | | | | | | | | | |
| | 1 4 | 4K7 1% | 0805 | R16 | Power board | 2 13 | 9333266 | MC01W080514K7 | 0,002 1 | 0 | RC0805FR- 074K7L | 0,019 | | RC0805FR- 074K7L | 0,015 | |
| | | | | | | | | | | | | | | | | |
| 118 | 4 | 49R9 1% | 0805 | R138, R140, R141, R142 | Arduino Shield | 4 | | | | | | | | | | |
| | 2 4 | 49R9 1% | 0805 | R109, R112 | AUX PS | 2 | | | | | | | | | | |
| | | | | | | 6 | 2141727 | MC01W0805149R9 | 0,002 1 | 0 | RC0805FR- 0749R9L | 0,019 | | RC0805FR- 0749R9L | 0,015 | |
| 119 | 1 | 51K 1% | 0805 | R48 | Power board | 2 | 9334653 | MC01W0805551K | 0,015 1 | 0 | RC0805FR- 0751KL | 0,019 | | RC0805FR- 0751KL | 0,015 | |
| 120 | 2 | 5K1 1% | 0805 | R84, R97 | Power board | 4 | 9333320 | MC01W080515K1 | 0,002 1 | 0 | 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 | | | | | | | | | | |

| | | | | RS Componer | its | | TME | | | //gitriub.com/ | • | ice calcula | tion fo | r 1 set |
|-----|-----|--------------|----------|-----------------------|-----------------|-----|-----------------|-----------------|-----|----------------|------------------|-----------------|--------------|-------------|
| # | | | | No Componer | | | | | | | | Lowest | | . 301 |
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | | Unit price € | MOQ | THT SMD | Best Supplier | unit price € | Order Qty | Line Cost € |
| 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 |
| | | 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 | 0.450 |
| 110 | | 2K2 1% | 020-0004 | ERAUAED2U2V | 0,230 | 5 | AR0003-2R-0.1% | 0,113 | 10 | 4 | IIVIE | 0,113 € | 4 | 0,452 |
| | | 2K2 1% | | | | | | | | | | | | |
| | · | 2.12 1.70 | | | | | | | | | | | | |
| | | | 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 | | WF25P-2R2-5% | 0,042 | | 2 | TME | 0,042€ | | 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 | | 49R9 1% | | | | | | | | | | | | |
| | 2 | 49R9 1% | | | | | | | | | _ | | | |
| | | | 679-1462 | CRCW080549R 9FKEA | 0,011 | 50 | RC0805FR-0749R9 | 0,007 | 100 | 6 | Farnell | 0,002€ | 10 | 0,020 |
| 440 | 4 | E41/ 40/ | 670 4505 | CDCM/00055414 | 0.000 | E0 | DOMMET AZEAN | 0.000 | 100 | • | TNAC | 0.000.0 | 10 | 0.004 |
| 119 | | 51K 1% | 679-1525 | CRCW080551K 0FKEA | 0,020 | | RC0805FR-0751K | 0,006 | | 2 | TME | 0,006€ | | 0,061 |
| 120 | | 5K1 1% | 679-1569 | CRCW08055K1 0FKEA | 0,027 | 50 | RC0805FR-075K1 | 0,007 | 100 | 4 | Farnell | 0,002€ | 10 | 0,021 |
| 121 | | 5K6 1% | | | | | | | | | | | | |
| | 2 | 5K6 1% | | | | | | | | | | | | |

| | | | | | | | | Farnell / Element1 | 4 | | Digi-Key | | Mouse | • |
|-----|-----|--|--|--------------------------------------|----------------|-----|---------|------------------------|-----------------|-----|------------------------|----------------|------------------------|----------------|
| # | 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 |
| | | | | | | 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 | | | | | | | | |
| | | 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 <mark>0.1%</mark> | 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 | | 4x10K 5% | 1206; resistor array | RN1, RN2 | Arduino Shield | 2 | 1770137 | CAY16-103J4LF | 0,110 | | CAY16-103J4LF | 0,090 | CAY16-103J4LF | 0,095 |
| 130 | | 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 | | LD-BZEN-0903 | THT | SP1 Buzzer | Arduino Shield | 1 | - | 11010100001 | 0.700 | | - | 0.000 | 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 | r 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 | | 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 |
| 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 | | 39-30-3055 | THT 4,2mm 5pin | X3 AC In | AUX PS | | 9963561 | 39303055 | 0,530 | 1 | 39-30-3055 | 1,180 | 39-30-3055 | 0,923 |
| 146 | | 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 |

| | | | | RS Componer | nts | | TME | arce code a | | | | • | rice calcula | tion fo | r 1 set |
|-----|-----|--|----------|------------------------|-----------------|-----|------------------------|-----------------|-----|-----|-----|------------------|-----------------|--------------|-------------|
| # | | | | | | | | Linit price | | | | | Lowest | | |
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | unit price € | Order Qty | Line Cost € |
| | | | 679-1572 | CRCW08055K6 0FKEA | 0,021 | 50 | SMD0805-5K6-1% | 0,008 | 100 | | 6 | Farnell | 0,006€ | 10 | 0,063 |
| 122 | 3 | 750R 1% | | | | | | | | | | | | | |
| 122 | | 750R 1% | | | | | | | | | | | | | |
| | | | 679-1660 | CRCW0805750 RFKEA | 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 | WW25NR020FTL | 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 | | | 1 | Farnell | 0,006 € | 5 | 0,029 |
| 129 | 2 | 4x10K 5% | 522-5585 | CAY16-103J4LF | 0,020 | | DR1206-10K-4/8 | 0,007 | | | 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 |
| 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 | | 39-30-3055 | 670-5861 | 39-30-3055 | 0,563 | 5 | - | | | 1 | | Farnell | 0,530 € | 1 | 0,530 |
| 146 | 1 | 09185107324 | | | | | | | | | | | | | |
| | 1 | 09185107324 | 740 7400 | 09185107324 | 1 440 | 1 | T921 1 10 S1 | 0.200 | 2 | 2 | | TNAE | 0,290 € | 2 | 0.500 |
| | | | 740-7108 | 0910010/324 | 1,442 | 1 | T821-1-10-S1 | 0,290 | 2 | 2 | | TME | 0,290€ | 2 | 0,580 |

| | | | | | | | | Farnell / Element1 | 14 | | Digi-Ke | / | | Mouser | | |
|------------|-----|-------------------|-------------------------------------|--|------------------|-----|---------|---------------------------|--------------|-----|-------------------------------|-----------------|-----|---------------------|-----------------|-----|
| # | Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price M | IOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 4.47 | 1 | 22-23-2031 | THT | X4 FAN Connector | AUX PS | 1 | 1462950 | 22 22 2024 | 0.091 | 1 | 22-23-2031 | 0.210 | | 22-23-2031 | 0.109 | |
| 147 148 | | CTB9300/3A | THT | X4 PAN Connector X6 DOUT2 Connector | AUX PS | 1 | 3882044 | 22-23-2031 CTB9300/3A | | 1 | ED2800-ND | 0,210 0,350 | 1 | 710- | 0,198 0,620 | 1 |
| 140 | | C1D9300/3A | 1111 | A0 DO012 Connector | AUX F3 | • | 3002044 | C1D9300/3A | 0,170 | ' | LD2000-ND | 0,550 | • | 691311700103 | 0,020 | ' |
| 149 | 1 | LMJ2138814S0L1T1C | THT, solder on the bottom layer! | X7 RJ45 Connector | AUX PS | 1 | - | | | | - | | | - | | |
| 150 | | 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- | 0,226 | 1 |
| | • | 020020 0 | TITI OT IIITICACCI | MOOT OWER | 7 tradino onicia | • | 1022200 | WZ0 0000040 | 0,101 | 10 | 302 2270 ND | 0,220 | • | 9990646 | 0,220 | |
| 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 | ТНТ | 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 | | 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 | | | | | | | | | | | | | | |
| | | 1u 50V X7R | 0805, 50V | C104A, C109A | Arduino Shield | 2 | | | | | | | | | | |
| | | n.c. | 0805 | C12 | Power board | 2 | _ | | | | | | | | | |
| | 1 | | 0805 | C149 | Arduino Shield | 1 | _ | | | | | | | | | |
| | 4 | | 0805 | C142, C143, C147, C148 | Power board | 8 | _ | | | | | | | | | |
| | | n.c. | 1206 | C144 | Power board | 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 | - | | | | | | | | | |

| | | | | RS Compone | nts | | TME | ource code a | | ,, g | 0.00 | | ice calcula | ition fo | r 1 set |
|-----|-----|-------------------|----------|-----------------------|-----------------|-----|--------------------|-----------------|-----|------|------|------------------|-----------------|--------------|-------------|
| # | | | | No compone | | | | | | | | | Lowest | | 1 301 |
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | unit price € | Order Qty | Line Cost € |
| 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 | 019-3301 | 22-23-2031 | 0,003 | 10 | TBG-5.0-PW-3P | 0,000 | 10 | 1 | | TME | 0,000 € | | 0,000 |
| 140 | | 010000/0/1 | | | | | 150 0.01 77 01 | 0,114 | | ' | | · · · · · | 0,114 C | • | 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 |
| 454 | 4 | 000000 0 | 745 7000 | M00 0000040 | 0.044 | 40 | 71 004 000 | 0.007 | 40 | 4 | | TN4E | 0.007.0 | 4 | 0.007 |
| 151 | ' | 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 |
| | | | | | | | l | | 3 | 57 | 660 | | | | 200,47 € |
| | | Not installed | | | | | | | | | | | | | |
| | 2 | 1u 50V X7R | | | | | | | | | 2 | | | | |
| | 1 | n.c. | | | | | | | | | 2 | | | | |
| | 1 | 1u | | | | | - | | | | 1 | | | | |
| | 4 | 1n | | | | | | | | | 8 | | | | |
| | 1 | n.c. | | | | | | | | | 2 | | | | |
| | 2 | 2m2 | | | | | - | | | 4 | | | | | |
| | 2 | 470n 50V X7R | | | | | | | | | 2 | | | | |
| | | 4n7 100V X7R | | | | | | | | | 2 | | | | |
| | | 100n | | | | | - | | | | 1 | | | | |
| | | 220n X7R | | | | | | | | | 1 | | | | |
| | | 1uF/50V Tant. | | | | | | | | | 1 | | | | |
| | | n.c. | | | | | - | | | | 2 | | | | |
| | 1 | SMBJ5.0A-TR | | | | | | | | | 1 | 1 | | | |

| | | | | | | | Farnell / Element | 14 | | Digi-Ke | у | | 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 € |
| | STPS15H100 | TO-252 | D22, D23, D24, D25 | Power board | 8 | - | | | | | | | | |
| | 74LVC1G125GW.125 | TSSOP-5 | IC33 | Arduino board | 1 | - | | | | | | | | |
| | TPA6205A1DGN | MSOP-8 | IC34 | Arduino board | 1 | - | | | | | | | | |
| | 693072010801 | Micro SD card | J7 | Arduino board | 1 | - | | | | | | | | |
| | HSMY-C170 | 0805 Yellow | LED | Power board | 2 | - | | | | | | | | |
| | n.c. | 0805 | R1 | Power board | 2 | - | | | | | | | | |
| | 1R 1% | 0805 | R136A, R140A | Arduino Shield | 2 | | | | | | | | | |
| | 47K 1% | 0805 | R160, R174 | Arduino Shield | 2 | | | | | | | | | |
| | n.c. | 1206 | R167 | Power board | 2 | - | | | | | | | | |
| | 12K | 1208 | R168 | Power board | 2 | - | | | | | | | | |
| | 20K 1% | 0805 | R169, R175 | Arduino board | 2 | | | | | | | | | |
| | 1K 1% | 0805 | R170, R171 | Arduino Shield | 2 | | | | | | | | | |
| | 10K 1% | 0805 | R172, R173 | Arduino Shield | 2 | | | | | | | | | |
| | n.c. | 0805 | R2, R14 | Power board | 4 | - | | | | | | | | |
| | LD-BZEN-0903 | THT | SP2, if used mount SP1 on this position | Arduino Shield | 1 | - | | | | | | | | |
| | 826629-5 | THT | X9 | AUX PS | 1 | - | | | | | | | | |
| | 282836-2 | THT | X19 | Power board | 2 | - | | | | | | | | |
| | PCA-6B-20-HL-3 or 52746-2071 | SMT | X20 3.5" Riverdi TFT LCD | Arduino board | 1 | - | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| 1 | MEAN WELL LRS-150-48 | Power module 48VDC; 3.3A | | Power board | 2 | - | | | | - | | | LRS-150-48 | 23,980 |
| | Option #1: MEAN WELL LRS-150F-48 | Power module 48VDC; 3.3A (auto-range) | | Power board | 0 | - | | | | - | | | LRS-150F-48 | 28,190 |
| 0 | Heatsink 70 x 120 mm | Not required if Varisom enclosure kit is purchased! | | Power board | 0 | - | | | | - | | | - | |
| 1 | Arduino Due | <u> </u> | | Arduino Shield | 1 | 2250861 | A000062 | 40,660 | 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 | - | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | | | DO 0 | | | - | ource code a | . mps. | ,, gili idi | J.00111/6 | • | | .41 | . 4 |
|---|-----|-------------------------------------|----------|---------------------|--------------|-----|--------------------|-----------------|--------|-------------|-----------|------------------|---------------------------|--------------|-------------|
| # | | | | RS Componer | nts | | TME | | | | | Pı | rice calcula | ation fo | r 1 set |
| # | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| | 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 | FFC 20-pin cable 150 mm | | | | | | | | | | | | | |
| | 1 | n.c. | | | | | - | | | | 2 | | | | |
| | | Power module AC input | (| | | | | | | | | | | | |
| | 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 | | | | | L = - · · · | | | | | | | | |
| | 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 | Itead/Eckstein | 19,480 | | - | | TME | 19,480 € | | 19,480 |
| | 1 | 3.2" TFT LCD | | | | | Itead/Eckstein | 12,140 | | - | | TME | 12,140 € | 1 | 12,140 |
| | 1 | Varisom enclosure kit | | | | | | | | - | | | | | |

| | | | | | | | Farnell / Elemen | t14 | Digi-Ke | ∍y | Mouse | r |
|----------|-----------|---------|----------------------|------------|-----|------|------------------|------------------|-------------|------------------|-------------|------------------|
| # 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 PC | B+PCBA | | | Enclosure | 1 | - | | | | | | |

| | Nuts & bolts | | | | | | | | |
|---|--|--|-------------------------------|----------------|----|---------|----------|----------|---|
| 1 | 12V fan 60x60mm | | | Enclosure | 1 | l | | | |
| | FSP-2 | Fastener for fan | | Enclosure | 4 | _ | | | |
| | FG-06 | Finger guard, 60x60mm, metal | | Enclosure | | 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 | | | | |
| | M3x5 countersunk, black finish | , and the second | | Enclosure | 2 | | | | |
| | M3x5 countersunk, black finish | . , . | | Enclosure | 4 | | | | |
| | M3x5 countersunk, black finish | | | Enclosure | 2 | | | | |
| | M3x5 countersunk, black finish | • | | Enclosure | 8 | | | | |
| 8 | M3x5 countersunk, black finish | Power board top and bottom plate mounting | | Enclosure | 8 | | | | |
| | | | | | 26 | - | | | |
| 4 | M4x6 | Front panel handles | | Enclosure | 4 | _ | | | |
| | 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 10 | |
| | | | | | | | | | |
| 2 | M3x12, cheese head | Power module's Q4 mounting on heatsink | | Enclosure | 2 | - | | | |
| 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 | | | | |

| | | | | PS Compone | nte | TME | urce code at m | ups.//g/ | 11.145.0011#0 | • | ico calcula | tion fo | r 1 cot |
|---|-----|--|------|-------------|------------------|--------------------|-----------------|----------|---------------|------------------|------------------------|--------------|-------------|
| # | | | | RS Compone | | | | | | FI | rice calcula Lowest | ition io | i i Set |
| " | Qty | | Code | Part Number | Unit price MOQ € | Code / Part Number | Unit price € | OQ TH | HT SMD | Best Supplier | unit price € | Order Qty | Line Cost € |
| | 1 | PCB+PCBA | | | | | | - | - | | | | 61,82 € |
| | | Nuts & bolts | | | | | | | | | | | |
| | 1 | | | | | MB60251V1-G99 | 2,590 | 1 | | TME | 2,590 € | 1 | 2,590 |
| | 4 | FSP-2 | - | | | FSP-2 | 0,140 | | | TME | 0,140 € | | 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 1 | 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 | | TME | 1,140 € | | 2,280 |
| | 5 | Washer, spring M5 | | | | B5/BN672 | 0,010 1 | 00 | | 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 1 | 00 | | TME | 0,013€ | 26 | 0,344 |
| | 4 | M4x6 | | | | B4X6/BN3334 | 0,014 1 | 00 | | TME | 0,014 € | | 0,000 |
| | 1 | Washer externally serrated M3, D=6mm | | | | | -, | | | | -, | | 5,555 |
| | 2 | Washer externally | | | | | | | | | | | |
| | | serrated M3, D=6mm | | | | B3/BN789 | 0,008 1 | 00 | | TME | 0,008€ | 3 | 0,025 |
| | | | | | | | | | | | | | |
| | 2 | M3x12, cheese head | | | | B3X12/BN272 | 0,026 2 | 00 | | TME | 0,026 € | 2 | 0,051 |
| | | Washer M3, 8mm | | | | B8X0.4/BN806 | 0,026 1 | 00 | | 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 1 | 00 | | TME | 0,019€ | 21 | 0,389 |
| | F | M3x5 | | | | | | | | | | | |
| | | M3x5 | | | | | | | | | | | |
| | 4 | UNDAU | | | | I | | J | | l | | | |

| | | | | | C. | | Farnell / Elemen | | | Digi-Ke | y · | | Mouse | r | |
|-----|--|---|-------------------------|----------------|------|---------|----------------------|-----------------|-----|-------------|-----------------|-----|------------------------|-----------------|-----|
| Qty | Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOC |
| | | | | | 9 | - | | | | | | | | | |
| _ | | | | | _ | | | | | | | | | | |
| 2 | TFF-M3X40/DR124 | 40 mm metal spacer, M3 (a pair is required for dual channel) | | Enclosure | 2 | - | | | | | | | | | |
| | Screwed spacer sleeve; hexagonal | 14 mm, M3 | | AUX PS | 5 | 1466812 | 05.03.143 | 0,397 | 4 | | | | | | |
| | Screwed spacer sleeve; M5; 8mm; brass | Extend binding post for PCB mounting | | Arduino Shield | 5 | - | | | | | | | | | |
| | 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 | - | | | | | | | | | |
| ,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 | • |
| ,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 | | 39-01-4030 | 0,300 | | 39-01-4030 | 0,292 | |
| | 39-01-4050 | Receptacle for X3 | AC power input | AUX PS | 1 | 9963502 | 39-01-4050 | 0,327 | | 39-01-4050 | 0,360 | | 39-01-4050 | 0,358 | |
| | 22-01-2035 | 3-pin receptacle for X4 | Cooling fan | AUX PS | 1 | 143127 | 22-01-2035 | 0,192 | | 22-01-2035 | 0,310 | | 22-01-2035 | 0,290 | |
| | 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 | | | |
| | NSR-08 | Receptacle for X8, X18 | Ethernet cable | AUX PS | 2 | | | | | | | | | | |
| | 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 | | | | | | | | | | |
| | | | | | 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 | | | | | | | | | | |
| | 08-50-0114 | Pins for X17 | MAIN temperature sensor | Arduino board | 2 | | | | | | | | | | |
| | | - | p. 17500 250050 | | | 2063734 | 08-50-0114 | 0,030 | 10 | 08-50-0114 | 0,170 | | 08-50-0114 | 0,141 | |
| | | | | | | | | | | 1 | | | 1 | | |

| | RS Components | | TME | | | | | D | Price calculation | | 1 cot | | | |
|------|--|----------|----------------------|-----------------|-----|--------------------|-----------------|-----|-------------------|--------|------------------|-----------------|--------------|-------------|
| | | · | | | | | | | | Lowest | tion io | 1 361 | | |
| Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | unit price € | Order Qty | Line Cost € |
| | | | | | | M3X5/D7985 | 0,013 | 100 | | | TME | 0,013€ | 9 | 0,11 |
| 2 | TFF-M3X40/DR124 | | | | | TFF-M3X40/DR124 | 0,156 | 10 | | | TME | 0,156€ | 2 | 0,31 |
| 5 | Screwed spacer sleeve; hexagonal | | | | | B3X14/BN3320 | 0,309 | 10 | | | TME | 0,309 € | 5 | 1,54 |
| 5 | Screwed spacer sleeve; M5; 8mm; brass | | | | | TFM-M5X8/DR218 | 0,187 | 10 | | | TME | 0,187 € | 5 | 0,93 |
| 8 | Spacer sleeve; 5mm; cylindrical; brass | | | | | DR316/3.2X5 | 0,057 | 10 | | | TME | 0,057 € | 8 | 0,4 |
| 4 | ??? | | | | | | | | | | Farnell | 0,000 € | 4 | 0,0 |
| 12 | Light pipe for LED | | | | | PLP2-625 | 0,331 | 5 | | | TME | 0,331 € | 12 | 3,9 |
| 1 | Schurter 4304.6090 | | | | | 4304.6090 | 3,594 | 1 | | | TME | 3,594 € | 1 | 3,5 |
| 2 | 4A Fuse | | | | | ZKT-4A | 0,095 | 10 | | | TME | 0,095€ | 2 | 0,1 |
| | 8A Fuse | | | | | ZKT-8A/125V | 0,094 | 10 | | | TME | 0,094 € | 0 | 0,0 |
| 0,06 | CB-HFT50.8/1M-BL | | | | | CB-HFT50.8/1M-BL | 1,241 | 1 | | | TME | 1,241 € | 1 | 1,2 |
| 1 | A3116068 | - | | | | A3116068 | 1,495 | 1 | | | TME | 1,495€ | 1 | 1,4 |
| 1 | A3216007 | - | | | | A3216007 | 0,563 | 1 | | | TME | 0,563 € | 1 | 0,5 |
| 1 | SD card 8Gb, min. 4Mb/s | | | | | S400-0080R11 | 3,840 | 1 | | | TME | 3,840 € | 1 | 3,8 |
| 1 | CTB92VG/3S | | | | | TBW-5.0-3P | 0,420 | 1 | | | TME | 0,420 € | 1 | 0,4 |
| | | | | | | l | | | I | | l | | | 18,96 |
| | Wire harness | | | | | | | | | | | | | |
| 1 | 10K NTC | 754-6645 | NTCLE100E310 3JB0 | 0,334 | 5 | NTCLE100E3103JB0 | 0,269 | | | | Mouser | 0,245€ | 1 | 0,2 |
| 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 | 0,2 |
| 1 | 39-01-4050 | 510-9708 | 39-01-4050 | 0,188 | 5 | MX-5557-05R2 | 0,240 | 2 | | | RS | 0,188€ | 1 | 0,1 |
| 1 | 22-01-2035 | 296-4940 | 22-01-2035 | 0,204 | 5 | MX-6471-031 | 0,050 | 10 | | | TME | 0,050€ | 1 | 0,0 |
| 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 | |
| 3 | 39-00-0078 | | | | | | | | | | | | | |
| 5 | 39-00-0078 | | | | | | | | | | | | | 0,0 |
| | | 215-5887 | 39-00-0078 100pc | 14,100 | 1 | MX-5556-T3L | 0,074 | 10 | | | TME | 0,074 € | 11 | |
| | 00 50 0444 | | | | | | | | | | | | | |
| | 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 | 0,0 |
| 21 | NDR-T | 681-2887 | 122-4777 | 0,041 | 100 | NDR-T | 0,027 | 25 | | | TME | 0,027 € | 21 | |
| | | | | | | | | | | | | | | |

| | | | | | | Farnell / Elemen | t14 | Digi-Ke | еу | Mouse | r |
|--|--|--|--|--|---------|------------------|------------------|-------------|------------------|-------------|--|
| Part name | Package | Reference designator | Board name | Qty | Code | Part Number | Unit price MOQ € | Part Number | Unit price MOQ € | Part Number | Unit price € MO |
| Л 91103 | Ring terminal; M3; 0.5÷1 mm2 | Chassis Earth | Enclosure | 1 | 7356528 | LRB-1.0T-M3 | 0,102 100 | | | | |
| /I01148 | Female quick disconnect | AC switch patch cables | Enclosure | 2 | | | | | | | |
| ло1148 | Female quick disconnect | AC inlet Earth (Side B) | Enclosure | 1 | | | | | | | |
| M01148 | Female quick disconnect | | Enclosure | 2 | | | | | | | |
| /I01148 | Female quick disconnect | Cable set #1 | Arduino board | 1 | | | | | | | |
| | | | | 6 | 3625424 | STO-1.0T-187N-8 | 0,057 100 | | | | |
|).75/14D/GY | Bootlace ferrule; insulated, 0.75mm2 | Cable set #1 | Enclosure | 2 | | | | | | | |
|).75/14D/GY | Bootlace ferrule; insulated, 0.75mm2 | Cable set #2 | Enclosure | 4 | | | | | | | |
| | | | | 6 | 841195 | H0,75/14. | 0,135 100 | | | | |
|).75/15D2/GY | Bootlace ferrule, twin entry; | Cable set #1 | Enclosure | 2 | | | | | | | |
|).75/15D2/GY | Bootlace ferrule, twin entry; | Cable set #2 | Enclosure | 3 | | | | | | | |
| | insulated, 0.75mm2 | | | 5 | 1121751 | 9037410000 | 0,120 100 | | | | |
| at5E cable, stranded | | Ethernet cable | Arduino Shield | 1 | 1734894 | PS11029 | 1,120 1 | | | | |
| GY0.75/25-BR | Insulated wire, stranded, | AC switch patch cables | Enclosure | 0,09 | | | | | | | |
| GY0.75/25-BR | Insulated wire, stranded, | Lower AC/DC module power input | Enclosure | 0,2 | | | | | | | |
| SY0.75/25-BR | Insulated wire, stranded, brown, 0.75 mm2 | Upper AC/DC module power input | Enclosure | 0,07 | | | | | | | |
| SY0.75/25-BR | Insulated wire, stranded, brown , 0.75 mm2 | AUX PS module power input | Enclosure | 0,11 | | | | | | | |
| | | | | 0,47 | 2528103 | PP001205 | 0,239 1 | | | | |
| SY0.75/25-BL | | AC switch patch cables | Enclosure | 0,09 | | | | | | | |
| SY0.75/25-BL | | Lower AC/DC module power input | Enclosure | 0,2 | | | | | | | |
| SY0.75/25-BL | | Upper AC/DC module power input | Enclosure | 0,07 | | | | | | | |
| SY0.75/25-BL | Insulated wire, stranded, blue , 0.75 mm2 | AUX PS module power input | Enclosure | 0,11 | | | | | | | |
| | | | | 0,47 | 2528092 | PP001196 | 0,239 1 | | | | |
| GY0.75/25-RD | | | Enclosure | 0,4 | | | | | | | |
| SY0.75/25-RD | | | Enclosure | 0,33 | | | | | | | |
| | | | | 0,73 | 2528175 | PP001270 | 0,481 1 | | | | |
| SY0.75/25-BK | Insulated wire, stranded, black, 0.75 mm2 | Cable set #1, Power board X1 cable | Enclosure | 0,4 | | | | | | | |
| // // // // // // // // // // // // // | 1 91103 101148 101148 101148 101148 101148 101148 101148 101148 101149 101149 101149 101149 101148 1 | Ring terminal; M3; 0.5÷1 mm2 101148 Female quick disconnect 101148 Female quick disconnect | Ring terminal; M3; 0.5+1 mm2 Chassis Earth Female quick disconnect AC switch patch cables Remale quick disconnect AC inlet Earth (Side B) Remale quick disconnect AC inlet Earth (Side B) Remale quick disconnect Cable set #1 Remale quick disconnect AC inlet Earth (Side B) Remale quick disconnect Lower AC/DC module power input brown, 0.75 mm2 Remale quick disconnect AC inlet Earth (Side B) Remale quick disconnect Lower AC/DC module power input 0.75 mm2 Remale quick disconnect AC inlet Earth (Side B) Remale quick disconnec | 191103 Ring terminal; M3; 0.5+1 mm2 Chassis Earth Enclosure 101148 Female quick disconnect AC switch patch cables Enclosure 101148 Female quick disconnect AC inlet Earth (Side B) Enclosure 101148 Female quick disconnect Lower AC/DC module power input Enclosure 101148 Female quick disconnect Cable set #1 Arduino board 101148 Female quick disconnect Cable set #1 Arduino board 101148 Female quick disconnect Cable set #1 Enclosure 101148 Female quick disconnect Cable set #2 Enclosure 101148 Female quick disconnect Cable set #2 Enclosure 101148 Female quick disconnect Cable set #1 Enclosure 101148 Female quick disconnect Cable set #2 Enclosure 101148 Female quick disconnect Cable set #1 Enclosure 101148 Female quick disconnect Cable set #1 Enclosure 101148 Female quick disconnect Cable set #1 Enclosure 10156 Cable set #2 Enclosure Insulated wire, stranded, blue, Duper AC/DC module power input Enclosure 10156 Cable set #1 Fower board X1 Enclosure 10157 mm2 Insulated wire, stranded, blue, AUX PS module power input Enclosure 10157 mm2 Enclosure 101575/25-BL Insulated wire, stranded, plue, AUX PS module power input Enclosure 101575 mm2 Enclosure 101575/25-BL Insulated wire, stranded, plue, AUX PS module power input Enclosure 101575 mm2 Enclosure 101575/25-BL Insulated wire, stranded, plue, AUX PS module power input Enclosure 101575 mm2 Enclosure 101575/25-BL Insulated wire, stranded, plue, Cable set #1, Power board X1 Enclosure 101575/25 | 191103 | Part name | Part name | Part name | Pert name | Part name | Pert number Package Reference designator Route number Route number numbe |

| | | | Project source code at https://github.com/eez-open RS Components TME Price calculation | | | | | | | | | | | | | |
|---|------|----------------------------|---|-------------|---------------------|-----------------------------|-----------------|-----|-----|-----|------------------|---------------------------|--------------|-------------|--|--|
| | | | TME | | | Price calculation for 1 set | | | | | | | | | | |
| # | Qty | Part name | Code | Part Number | Unit price € MOQ | Code / Part Number | Unit price € | MOQ | тнт | SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € | | |
| | 1 | BM 91103 | | | | BM 91103 | 0,048 | 10 | | | TME | 0,048 € | 1 | 0,048 | | |
| | 4 | BM01148 | | | | | | | | | | | | 0,000 | | |
| | 1 | BM01148 | | | | | | | | | | | | 0,000 | | |
| | 2 | BM01148 | | | | | | | | | | | | 0,000 | | |
| | 1 | BM01148 | | | | | | | | | | | | | | |
| | | | | | | BM01148 | 0,047 | 10 | | | TME | 0,047 € | 6 | 0,281 | | |
| | 2 | H0.75/14D/GY | | | | | | | | | | | | | | |
| | 4 | H0.75/14D/GY | | | | | | | | | | | | | | |
| | | | | | | H0.75/14D/GY | 0,023 | 20 | | | TME | 0,023 € | 6 | 0,140 | | |
| | 2 | H0.75/15D2/GY | | | | | | | | | | | | | | |
| | 3 | H0.75/15D2/GY | | | | | | | | | | | | | | |
| | | | | | | H0.75/15D2/GY | 0,036 | 10 | | | TME | 0,036 € | 5 | | | |
| | 1 | Cat5E cable, stranded wire | | | | CA00600.00C01 | 6,800 | 1 | | | Farnell | 1,120 € | 1 | 1,120 | | |
| | 0,09 | LGY0.75/25-BR | | | | | | | | | | | | | | |
| | 0,2 | LGY0.75/25-BR | | | | | | | | | | | | | | |
| | 0,07 | LGY0.75/25-BR | | | | | | | | | | | | | | |
| | 0,11 | LGY0.75/25-BR | | | | | | | | | | | | | | |
| | | | | | | LGY0.75/25-BR | 0,340 | 25 | | | Farnell | 0,239€ | 1 | 0,239 | | |
| | 0,09 | LGY0.75/25-BL | | | | | | | | | | | | | | |
| | 0,2 | LGY0.75/25-BL | | | | | | | | | | | | | | |
| | 0,07 | LGY0.75/25-BL | | | | | | | | | | | | | | |
| | 0,11 | LGY0.75/25-BL | | | | | | | | | | | | | | |
| | | | | | | 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 | | | | | | | | | | | | | | |
| | | | | | | • | | | | | | | | | | |

EEZ PSU H24005 BOM (r5B12, 2017-03-11)

Project source code at https://github.com/eez-open

| | | | | | | | | Farnell / Element | | Digi-K | ∍y | | Mouse | er | |
|---|---------|------------------|--|------------------------------------|----------------|----------------|---------|-------------------------|----------------|-------------|-----------------|-----|-------------|-----------------|-----|
| # | Qty | Part name | Package | Reference designator | Board name | Board name Qty | Code | Part Number | Unit price MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| | 0,33 LC | GY0.75/25-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 LC | GY0.75/25-YL/GR | Insulated wire, stranded, green-yellow, 0.75 mm2 | Cable set #1, Power board X1 cable | Enclosure | 0,4 | | | | | | | | | |
| | 0,07 LC | GY0.75/25-YL/GR | Insulated wire, stranded, green-yellow, 0.75 mm2 | Cable set #1, AC/DC module Earth | Enclosure | 0,07 | | | | | | | | | |
| | 0,17 LC | GY0.75/25-YL/GR | Insulated wire, stranded, green-yellow, 0.75 mm2 | Chassis Earth | Enclosure | 0,17 | | | | | | | | | |
| | 0,5 LC | GY0.75/25-YL/GR | Insulated wire, stranded, green-yellow, 0.75 mm2 | Arduino Shield Earth | Enclosure | 0,5 | | | | | | | | | |
| | 0,33 LC | GY0.75/25-YL/GR | Insulated wire, stranded, green-yellow, 0.75 mm2 | Cable set #2, Power board X1 cable | Enclosure | 0,33 | | | | | | | | | |
| | 0,15 LC | GY0.75/25-YL/GR | Insulated wire, stranded, green-yellow, 0.75 mm2 | Cable set #2, AC/DC module Earth | Enclosure | 0,15 | | | | | | | | | |
| | 0,15 LC | GY0.75/25-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 LC | GY0.35/25-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 Ar | rduino USB cable | USB micro to 5-pin receptacle cable, 30 or 50 cm | Search e.g. AliExpress | | 1 | - | | | | | | | | |
| | 1 F0 | C10300-0 | 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.

| | | Project source code at https://github.com/eez-open | | | | | | | | | | | | |
|---|---------|--|------|---------------|----------------|--------------------|----------------|---------|------------------|---------------------|--------------|-------------|--|--|
| | | | | RS Components | | | | | P | rice calcula | tion fo | r 1 set | | |
| # | Qty | Part name | Code | Part Number | Unit price MOQ | Code / Part Number | Unit price MOC | THT SME | Best Supplier | Lowest unit price € | Order Qty | Line Cost € | | |
| | 0,33 LG | Y0.75/25-BK | | | | | | | | | | | | |
| | | | | | | LGY0.75/25-BK | 0,340 25 | | TME | 0,340 € | 1 | 0,248 | | |
| | 0,4 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | 0,07 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | 0,17 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | 0,5 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | 0,33 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | 0,15 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | 0,15 LG | Y0.75/25-YL/GR | | | | | | | | | | | | |
| | | | | | | LGY0.75/25-YL/GR | 0,340 25 | | TME | 0,340 € | 2 | 0,602 | | |
| | 0,24 LG | Y0.35/25-BR | | | | LGY0.35/25-BR | 0,210 25 | | Farnell | 0,095€ | 1 | 0,095 | | |
| | 1 Arc | duino USB cable | | | | - | | | Farnell | 0,000€ | 1 | 0,000 | | |
| | 1 FC | 10300-0 | | | | FC10300-0 | 1,040 1 | | TME | 1,040 € | 1 | 1,040 | | |
| | | | | | | • | | • | • | | | 5,05 € | | |

286,30 € Total

PCBA (min. 50 pcs) Estimated 40,00 PCBs (min. 20 pcs) 30,00 Estimated Enclosure (min. 20 pcs) 51,00 Estimated 121,00

407,30 € Estimated total (no shipping costs included):