

EEZ DIB BP3C BOM (r3B3, 2020-11-08)
Project source code at <https://github.com/eez-open/modular-psu>

| # | Farnell / Element14 | | | | | | | | Digi-Key | | | Mouser | | |
|----|---------------------|-----------------|---|------------------------|---------|--------------------|-----------------|-----|---------------------|-----------------|-----|----------------------|-----------------|-----|
| | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |
| 1 | 1 | 100n | 0603 | C1 | 2522597 | C0603C104K4RAC7081 | 0,073 | 10 | 490-4774-1-ND | 0,090 | 100 | 80-C0603C104M4R | 0,085 | 100 |
| 2 | 1 | 1n | 0805 | C2 | 2896470 | VJ0805A102JXACW1BC | 0,044 | 10 | 732-7858-1-ND | 0,055 | 10 | 710-885012007040 | 0,052 | 10 |
| 3 | 6 | BAS316 | SOD-323 | D1, D2, D5, D6, D7, D8 | 8734275 | BAS316,115 | 0,193 | 5 | 1727-7370-1-ND | 0,120 | 1 | 771-BAS316-T/R | 0,179 | 1 |
| 4 | 1 | TCA9534PWR | TSSOP-16 | IC1 | - | | | | 296-40574-1-ND | 1,150 | 1 | 595-TCA9534PWR | 0,934 | 10 |
| 5 | 4 | RT424005 | THT; 8A relay | K1, K2, K3, K4 | 1629052 | RT424005 | 2,640 | 1 | PB1998-ND | 3,620 | 1 | 655-RT424005 | 2,820 | 1 |
| 6 | 4 | 2N7002 | SOT-23 | Q1, Q2, Q3, Q4 | 1713825 | 2N7002K-7 | 0,148 | 5 | T2N7002AKLMC-T-ND | 0,126 | 10 | 757-T2N7002AKLM | 0,113 | 10 |
| 7 | 4 | 100K | 0805 | R2, R4, R6, R8 | 2447551 | MCWR08X1003FTL | 0,010 | 10 | RMCF0805FT100KCT-ND | 0,024 | 10 | 71-CRCW0805100KFKEAC | 0,040 | 10 |
| 8 | 1 | 10K | 0805 | R9 | 9237755 | RC0805FR-0710KL | 0,022 | 10 | 311-10.0KCRCT-ND | 0,039 | 10 | 603-RC0805FR-0710KL | 0,014 | 10 |
| 9 | 3 | DS1021-2*10SF11 | THT; 2x10-pin 0.1" header | X1, X2, X3 | - | | | | | | | 649-77313-802-20LF | 0,534 | 10 |
| 10 | 1 | DS1022-2*20RF11 | THT; 2x20-pin 0.1" header, right angled | X4 | - | | | | | | | 649-68020-140HLF | 1,180 | 10 |
| 11 | 3 | DS1023-2*14S21 | THT; 2x14-pin 0.1" receptacle | X5, X6, X7 | - | | | | S7082-ND | 1,520 | 1 | SSQ-114-01-T-D | 1,960 | 10 |
| 12 | 4 | MM3Z18VT1G | SOD-323 | ZD1, ZD2, ZD3, ZD4 | 1431193 | MM3Z18VT1G | 0,109 | 10 | MM3Z18VT1GO-SCT-ND | 0,103 | 10 | 863-MM3Z18VT1G | 0,108 | 10 |

| Not installed | | | | | | | | | | | | | | |
|---------------|------------|----------|------------------------|--|--|--|--|--|--|--|--|--|--|--|
| 4 | Green LED | 0805 | LED1, LED2, LED3, LED4 | | | | | | | | | | | |
| 1 | Yellow LED | 0805 | LED5 | | | | | | | | | | | |
| 1 | Red LED | 0805 | LED6 | | | | | | | | | | | |
| 2 | BAS316 | SOD-323 | D3, D4 | | | | | | | | | | | |
| 1 | N.C. | DO-214AA | D9 | | | | | | | | | | | |
| 4 | 330R | 0805 | R1, R3, R5, R7 | | | | | | | | | | | |
| 1 | 470R | 0805 | R10 | | | | | | | | | | | |
| 1 | 1K5 | 0805 | R11 | | | | | | | | | | | |

| Custom made components | | | | | | | | | | | | | | |
|------------------------|-------------------------|------------|---|--|--|--|--|--|--|--|--|--|--|--|
| 1 | PCB 2-layer 110 x 90 mm | ALLPCB.com | - | | | | | | | | | | | |

All prices are net prices (without VAT)

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

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

| # | RS Components | | | | | | TME | | | THT | SMD | Price calculation for 1 set | | | |
|----|---------------|-----------------|----------|------------------------|-----------------|-----|--------------------|-----------------|-----|-----|-------|-----------------------------|---------------------------|--------------|-------------|
| | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | | | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |
| 1 | 1 | 100n | 264-4630 | C0603C104K4R ACTU | 0,035 | 25 | CL10B104KA8NNNC | 0,098 | 100 | | 1 | RS | 0,035 € | 1 | 0,035 |
| 2 | 1 | 1n | 723-6408 | GRM2195C1H1 02JA01D | 0,031 | 100 | CL21C102JBCNNNC | 0,026 | 100 | | 1 | TME | 0,026 € | 1 | 0,026 |
| 3 | 6 | BAS316 | 397-2914 | BAS316,115 | 0,122 | 50 | BAS316,115 | 0,026 | 25 | | 6 | TME | 0,026 € | 6 | 0,159 |
| 4 | 1 | TCA9534PWR | 814-3997 | TCA9535PWR | 1,071 | 10 | - | | | | 1 | Mouser | 0,934 € | 1 | 0,934 |
| 5 | 4 | RT424005 | - | | | | RT424005 | 1,150 | 5 | 4 | | TME | 1,150 € | 4 | 4,600 |
| 6 | 4 | 2N7002 | 671-0312 | 2N7002 | 1,250 | 20 | 2N7002LT1G | 0,019 | 25 | | 4 | TME | 0,019 € | 4 | 0,077 |
| 7 | 4 | 100K | 223-0691 | CRG0805F100K | 0,028 | 50 | SMD0805-100K-1% | 0,015 | 100 | | 4 | Farnell | 0,010 € | 4 | 0,039 |
| 8 | 1 | 10K | 125-1189 | CRG0805F10K | 0,006 | 100 | RC0805FR-0710K | 0,022 | 100 | | 1 | RS | 0,006 € | 1 | 0,006 |
| 9 | 3 | DS1021-2*10SF11 | - | | | | DS1021-2*10SF11 | 0,165 | 10 | 3 | | TME | 0,165 € | 3 | 0,494 |
| 10 | 1 | DS1022-2*20RF11 | - | | | | DS1022-2*20RF11 | 0,282 | 2 | 1 | | TME | 0,282 € | 1 | 0,282 |
| 11 | 3 | DS1023-2*14S21 | - | | | | DS1023-2*14S21 | 0,295 | 2 | 3 | | TME | 0,295 € | 3 | 0,885 |
| 12 | 4 | MM3Z18VT1G | 802-4574 | MM3Z18VT1G | 0,038 | 200 | MM3Z18VT1G | 0,025 | 25 | | 4 | TME | 0,025 € | 4 | 0,101 |
| | | | | | | | | | | | 11 22 | 7,64 € | | | |

| Not installed | | | | | | | | | | | | | | | |
|---------------|------------|--|--|--|--|--|--|--|--|---|--|---------|---------|---|-------|
| 4 | Green LED | | | | | | | | | 4 | | Farnell | 0,000 € | 4 | 0,000 |
| 1 | Yellow LED | | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |
| 1 | Red LED | | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |
| 2 | BAS316 | | | | | | | | | 2 | | Farnell | 0,000 € | 2 | 0,000 |
| 1 | N.C. | | | | | | | | | | | Farnell | 0,000 € | 1 | 0,000 |
| 4 | 330R | | | | | | | | | 4 | | Farnell | 0,000 € | 4 | 0,000 |
| 1 | 470R | | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |
| 1 | 1K5 | | | | | | | | | 1 | | Farnell | 0,000 € | 1 | 0,000 |

| Custom made componer | | | | | | | | | | | | | | | |
|----------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|--------|---------|---|--------|
| 1 | PCB 2-layer 110 x 90 mm | | | | | | | | | | | ALLPCB | 5,600 € | 1 | 5,600 |
| | | | | | | | | | | | | | | | 5,60 € |

Total 13,24 €

| Farnell / Element14 | | | | | | | | | | Digi-Key | | | Mouser | | |
|---------------------|-----|-----------|---------|----------------------|------|-------------|-----------------|-----|--|-------------|-----------------|-----|-------------|-----------------|-----|
| # | Qty | Part name | Package | Reference designator | Code | Part Number | Unit price € | MOQ | | Part Number | Unit price € | MOQ | Part Number | Unit price € | MOQ |

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| | | | | RS Components | | | TME | | | | | Price calculation for 1 set | | | |
|---|-----|-----------|------|---------------|-----------------|-----|--------------------|-----------------|-----|-----|-----|-----------------------------|---------------------------|--------------|-------------|
| # | Qty | Part name | Code | Part Number | Unit price € | MOQ | Code / Part Number | Unit price € | MOQ | THT | SMD | Best Supplier | Lowest unit price € | Order Qty | Line Cost € |