

Bill Of Materials for Air Data Unit v1.1

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|-----------------------|-----------------------|
| Design Title | Air Data Unit v1.1 |
| Author | |
| Document Number | |
| Revision | |
| Design Created | 1 Mayıs 2024 Çarşamba |
| Design Last Modified | 17 Mayıs 2024 Cuma |
| Total Parts In Design | 109 |

34 Resistors

| Quantity | References | Value | PCB Package |
|----------|---|-------|-------------|
| 2 | R1,R16 | 10k | 0603_RES |
| 2 | R2,R13 | 330 | 0805_RES |
| 5 | R3,R6,R7,R11,R14 | 2.2k | 0805_RES |
| 5 | R4,R5,R12,R15,R28 | 100k | 0603_RES |
| 9 | R8,R9,R10,R17,R18,R19,R20,R21,R22 | 2.2k | 0603_RES |
| 11 | R23,R24,R25,R26,R27,R29,R30,R31,R32,R33,R34 | 220 | 0603_RES |

Sub-totals:

17 Capacitors

| Quantity | References | Value | PCB Package |
|----------|---------------------------------|----------|--------------|
| 2 | C1,C2 | 22pF | 0603_CAP |
| 9 | C3,C4,C5,C8,C12,C14,C15,C16,C17 | 100nF | 0603_CAP |
| 1 | C6 | 22uF 25V | CAPAE660X540 |
| 2 | C7,C11 | 330nF | 0805_CAP |
| 1 | C9 | 22uF 16V | CAPAE530X460 |
| 1 | C10 | 47uF 25V | CAPAE660X540 |
| 1 | C13 | 47uF 16V | CAPAE660X540 |

Sub-totals:

20 Diodes

| Quantity | References | Value | PCB Package |
|----------|---------------------------------|-------------|-------------|
| 4 | D1,D2,D3,D5 | 1N4148 | SOD80 |
| 1 | D4 | 5.1V | SOD80 |
| 4 | D6,D7,D8,D9 | 1N4007 | DO214 |
| 1 | D10 | YELLOW 3 mm | LED |
| 2 | D11,D12 | GREEN 3 mm | LED |
| 8 | D13,D14,D15,D16,D17,D18,D19,D20 | RED 3 mm | LED |

Sub-totals:

2 Transistors

| Quantity | References | Value | PCB Package |
|----------|------------|--------|-------------|
| 2 | Q1,Q2 | BC857A | SOT23 |

Sub-totals:

7 Integrated Circuits

| Quantity | References | Value | PCB Package |
|----------|------------|-------------|----------------------|
| 1 | U1 | ATMEGA328P | QFP80P900X900X120-32 |
| 1 | U2 | TCA9548APWR | SOP65P640X12024N |
| 1 | U3 | DS1302 | SO8 |
| 1 | U4 | 78L05 | SOT89 |
| 1 | U5 | 7805 | DDPAK |
| 2 | U6,U7 | 74HC14 | SO14 |

Sub-totals:

29 Miscellaneous

| Quantity | References | Value | PCB Package |
|----------|------------|---------------|--------------|
| 1 | B1 | DS1092-15-B6P | DS109215B6PC |
| 1 | J1 | IDC 2x3 | 09181069422 |

| | | | |
|---|--------------------------------------|--------------|-----------------|
| 1 | J2 | JST PH 6 PIN | JST_B6BPHK |
| 7 | J3,J5,J6,J7,J8,J9,J10 | JST PH 4 PIN | JST_B4BPHK |
| 1 | J4 | JST PH 8 PIN | JST_B8BPHKS |
| 2 | J11,J12 | JST XH 2 PIN | JST_B2BXHA |
| 1 | L1 | ~10-100uH | IND1210 |
| 9 | RT1,RT3,RT4,RT5,RT6,RT7,RT8,RT9,RT10 | 100mA | 1206 |
| 1 | RT2 | 500ma | 1206 |
| 1 | SW1 | TACH 6x6x4 | TE_18259102 |
| 2 | VR1,VR2 | 25V | 0603 |
| 1 | X1 | 20MHz | X2SMD50X32X13MM |
| 1 | X2 | 32.768kHz | ECS327613FLXTR |

Sub-totals:

Totals:

17 Mayıs 2024 Cuma 19:12:08