

| Comment | Description | Value | Designator | Footprint | Quantity |
|-----------------------|--|-----------------|---|--------------------------|----------|
| LM1117IMPX-3.3/NOPB | +3,3V LDO LM1117MP-3.3 | | A1 | SOT230P700X1.80-4N | 1 |
| 100nF | CAP-CER 100n 50V 10% SMD 0603 X7R | | C1, C2, C3, C4, C5, C19, C20, C23, C24 | CAPC1608X0.95N_0603 | 9 |
| 1µF | CAP-CER 1u 16V 10% SMD 0603 X7R | | C6, C7, C8, C17, C18, C21, C22, C25, C26 | CAPC1608X0.95N_0603 | 9 |
| 10µF | CAP-CER 10u 25V 10% SMD 1206 X7R | | C9, C13, C14, C15, C16 | CAPC3216X1.80N_1206 | 5 |
| 100µF | CAP-ELC 100u 25V 20% SMD D6.3mm H7.7mm R4.4mm | | C10 | CAPAE660X8.00N_D8 | 1 |
| 18pF | CAP-CER 18p 50V 5% SMD 0603 C0G | | C11, C12 | CAPC1608X0.87N_0603 | 2 |
| SS1FL3HM3/H | DIO-SKY 30V 420mV 1A SMD DO-219AB SS1FL3HM3/H | | D1, D2 | SODFL3718X1.08N_DO-219AB | 2 |
| 2 Pin male | 2 Pin male | | FAN0, FAN1, Thermistor | JST_B2B-XH-A(LF)(SN) | 3 |
| Terminalblock X2 | | | Heater | TerminalblockX2 | 1 |
| JP1X4 | 4 Pin PFOSTENSTECKER, Fasternaß 2,54mm | | I2C, P2, P3 | P1x4-R2.54-X0.67 | 3 |
| STM32F072C8T6 | Integrated Circuit | | IC1 | QFP50P900X900X160-48N | 1 |
| ME3116 | 1A up to 40V Input Step-Down DC/DC Regulator | | IC2, IC3 | SOT23-6 | 2 |
| Switch Black | Tactile Switch | | J1 | Tactile_SW_2Pins | 1 |
| Switch Red | Tactile Switch | | J2 | Tactile_SW_2Pins | 1 |
| USB 3.1 C Receptacle | USB 3.1 Type C Receptacle Horizontal THR WR-COM | | J3 | C165948 | 1 |
| Ferrite Bead | Ferrite Bead | 10mH | L1 | 0603 | 1 |
| Inductor | Inductor | 4.7uH/1.7A/1210 | L2, L3 | 5.2x4mm | 2 |
| LED-0603 GN LC | LED WÜRTH 2mA 150060VS75000 | | LD1 | LEDC1608X0.80N_0603 | 1 |
| 3 Pin male | 3 Pin male | | LED | JST_B3B-XH-A(LF)(SN) | 1 |
| JST-XH | 4 Pin male | | MOT | JST_B4B-XH-A(LF)(SN) | 1 |
| Marker IPC7351 | Fiducial Marker IPC7351 Diameter 1.5mm, Clearance Diameter 3mm | | MP1, MP2, MP3, MP4, MP5, MP6 | PCB-Marker_IPC7351 | 6 |
| JP1X3 | 3 PIN PFOSTENSTECKER, Rastermaß 2,54mm | | P4 | P1x3-R2.54-X0.63 | 1 |
| SI2318CDS-T1-GE3 | N-MOSFET SI2318CDS-T1-GE3 | | Q1, Q2, Q3, Q4, Q5 | SOT95P240X1.10-3N_SOT-23 | 5 |
| 10k | RES 10k 1% 100mW TK100 SMD 0603 G | | R1, R2, R3, R10, R12, R18, R20, R21, R24, R26, R27, R32, R33, R34 | RESC1608X0.55N_0603 | 14 |
| 0 | RES 0R 5% 100mW TK100 SMD 0603 G | | R4, R6, R7, R8, R13, R14, R15, R16, R17 | RESC1608X0.55N_0603 | 9 |
| 100k | RES 100k 1% 100mW TK100 SMD 0603 G | | R9, R25 | RESC1608X0.55N_0603 | 2 |
| 33K | RES 33k 1% 100mW TK100 SMD 0603 G | | R22 | RESC1608X0.55N_0603 | 1 |
| 680R | RES 680R 1% 100mW TK100 SMD 0603 G | | R23 | RESC1608X0.55N_0603 | 1 |
| 4.7k | RES 4k7 1% 100mW TK100 SMD 0603 G | | R28, R29, R30 | RESC1608X0.55N_0603 | 3 |
| P1X6-R2.54mm-V-X9.5mm | P1X6-R2.54mm-V-X9.5mm-Modu II Stiftleiste | | SPI | P1X6-R2.54-V-X9.5 | 1 |
| TMC2130BREAKOUT | | | TMC1 | TMC2130BREAKOUT | 1 |
| CH224K | USB PD and Other Fast Charging Protocol Sink Controller | Value | U1 | ESSOP100P600X180_E P-11N | 1 |
| XTAL_8MHz | Crystal | | Y1 | SMD-3225_4P | 1 |