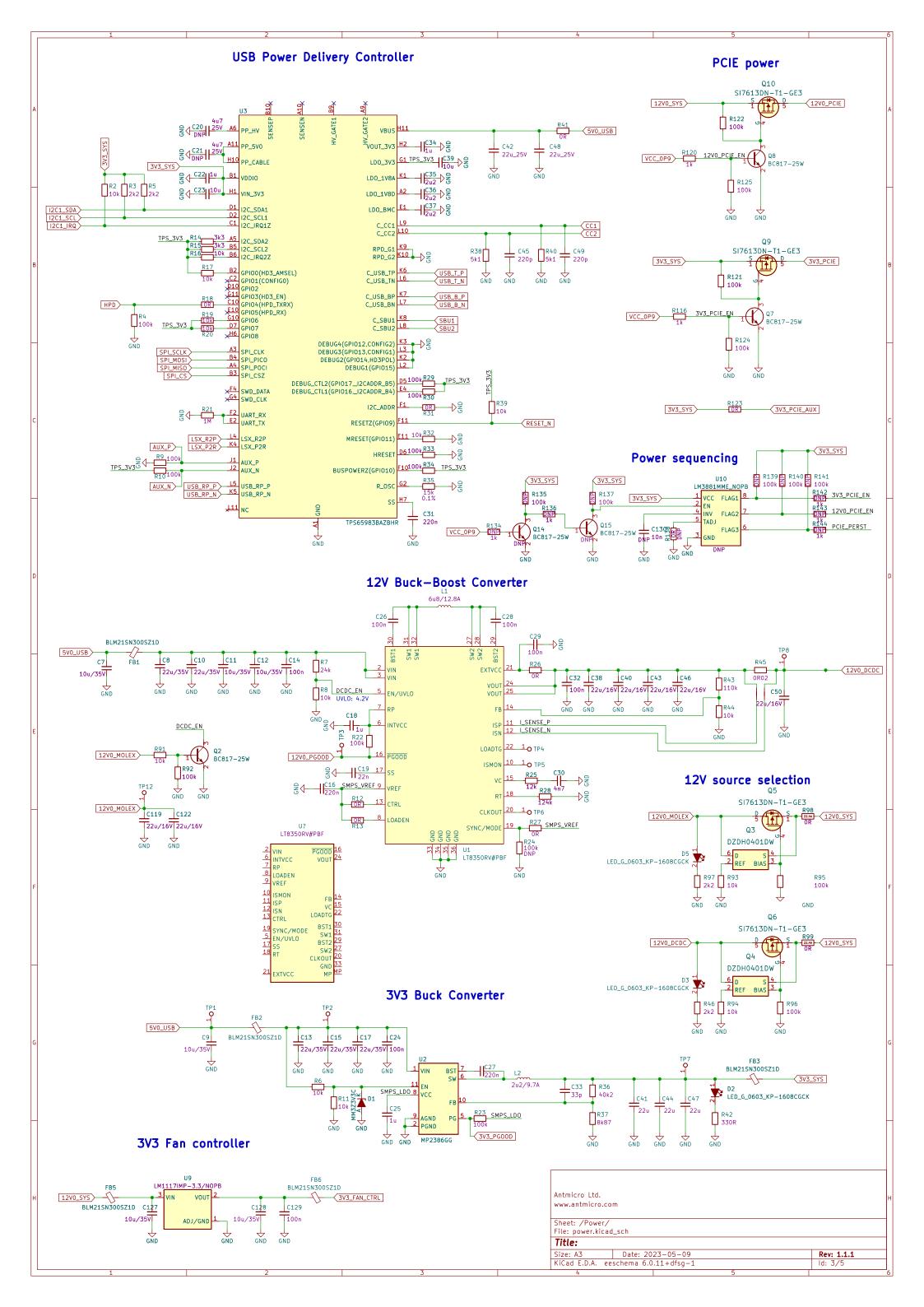
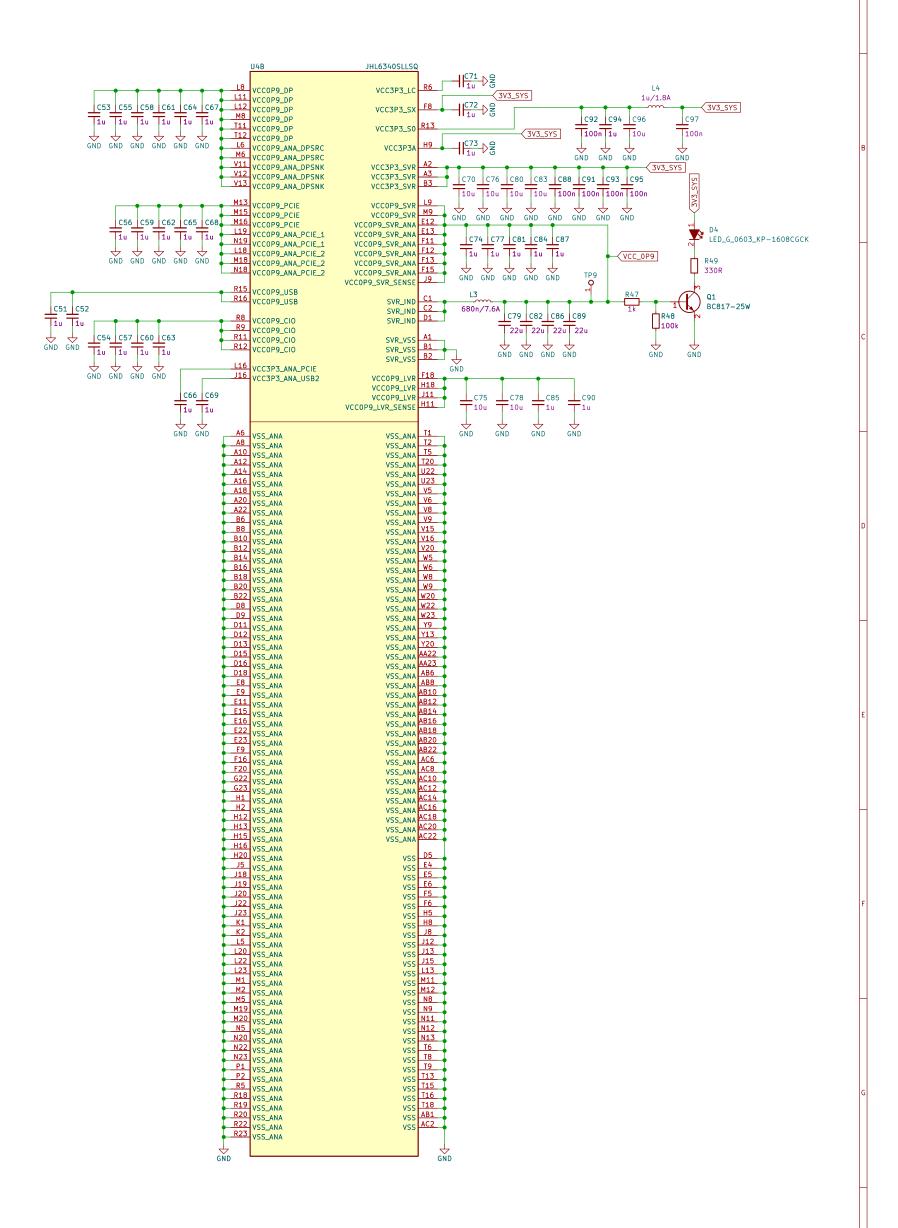


USB-C Connector +12V Molex NanoFit Connector (PWR IN) +12V and communication edge connector J9 USB-C_DX07S024JJ2 12V0_MOLEX 12V0 MOLEX GND B11 3V3_PCIE B10 B9 5V0_USB В8 SBU2 B7 B6 +12V Fan out B5 B4 B3 J3 S4B-XH-A (LF)(SN) TB_RX1_N PWM_OUT FB_120Z_3A_0603 FAN_TACH1 12V0_SYS 1N4148WS-7-F Temperature sensor Connector TEMP_SENSE_1 J2 S2B-XH-A(LF)(SN) C2 C3 C4 C5 **PCI Express Connector** PCIe x16 10146070-113Y0LF-vertical PCIe x16_10146070-113Y0LF-vertical B44 C124 C6 10u C123 C125 220u/16V 845 846 846 847 848 ┬ 100n B4 B4 ×B5 B5 ×B6 B6 B7 B7 10u/35V GND GND GND GND GND <u>B4</u> B4 GND B7 B8 B9 B10 B11 B12 B13 B14 B14 B15 A8 A9 A10 A10 85 85 85 3V3_PCIE 3V3_PCIE R130 A10 A10 A11 A12 A12 A13 A14 A15 A16 A16 A17 A17 A18 A18 A19 A20 A21 A21 A22 A23 A23 PCIE_PERST PCIE_PWRGD B5: B5: B5: B5: B5: R1 3k3 A54 A55 PCIE_CLK_CON_P PCIE_CLK_CON_N A56 A57 A58 B14 B15 B16 B16 B17 B18 B18 B19 GND PCIE_TX0_N PCIE_RX0_P PCIE_RX0_N B58 B60 B60 B60 B60 B60 B60 B60 A59 A60 B19 B19 PCIE_TX1_P PCIE_TX1_N B20 B21 B21 B21 A61 A62 A63 A22 A23 A23 A24 A24 A25 A25 A26 A26 A27 A28 A29 A30 A30 A31 A31 A32 A33 A33 A33 PCIE_RX1_N B22 B23 B23 B24 B25 B26 B26 B27 B28 A64 A65 В6 86 86 86 87 87 87 A66 A67 PCIE_RX2_P PCIE_RX2_N A68 B27 B28 B29 B30 B30 B31 B31 B32 B32 B33 PCIE_RX3_P PCIE_RX3_N B7: B7: B7: A31 A32 A32 A33 A34 A35 A36 A36 A37 A37 A37 A38 832 832 833 833 834 834 835 835 836 836 837 837 838 839 839 839 840 840 A76 A77 В7 A78 A79 A80 A38 A39 A39 A40 A41 B40 B40 B41 B41 A81 A82 A40 GND GND 3V3_FAN_CTRL 3V3_FAN_CTRL R129 10k132 Q12 BC817-25W FAN_OT 3V3_FAN_CTRL LED_RGB_0606_150066M153000 Q13 BC817-25W R114 Mounting holes GND Fan control circuit PCB_Mount_Hole_3mm_6mm_pad U8 MAX6643LBBAEE+ 3V3_FAN_CTRL R13W3_FAN_CTRL R106 OR DNP OT2 VDD PWM_OUT 3V3_FAN_CTRL PWM_OUT PCB Mount Hole 3mm 6mm pad TACHSET 5 FAN_OT FAN_FAIL TACHSET OT1 T_OVER @ 80 DEG ghtguide 1x1 1271.1001 R107 OR DNP R101 FAN_TACH1 FAN_IN1 R115 10 FAN_IN2 ${\tt PCB_Mount_Hole_3mm_6mm_pad}$ OR DNP TH1 GND lorizontal ightguide 1x1 1271.1001 TH1 TH2 TL1 TH2 GND GND TL2 OT1 TL2 Horizontal lightguide 1x1 1271.1001 3V3_FAN_CTRL 3V3_FAN_CTRL R108 OR TH2 R109 OR DNP OT2 R102 OR TH1 0T2 TEMP_SENSE_1 DXP GND PCB_Mount_Hole_2.2_3.5 T_HIGH @ 60 DEG TEMP_SENSE_2 GND PCB_Mount_Hole_2.2_3.5 R103 OR DNP GND GŇD R104 3V3_FAN_CTRL 3V3_FAN_CTRL R110 3V3_FAN_CTRL R112 OR DNP 3V3_FAN_ OR DNP_{TL1} OR DNP TL2 Antmicro Ltd. www.antmicro.com 3V3_FAN_CTRL R119 R111 OR DNP FULLSPD R105 OR R113 Sheet: /Connectors/ C118 TACHSET File: connectors.kicad_sch 100n GND GND Date: 2023-05-09 eeschema 6.0.11+dfsg-1 Size: A3 Rev: 1.1.1 T_LOW @ 30 DEG KiCad E.D.A.



Thunderbolt Controller - Power



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File: tb—power.kicad_sch

Title:

Size: A3 Date: 2023-05-09 Rev: 1.1.1

KiCad E.D.A. eeschema 6.0.11+dfsg-1 Id: 4/5

