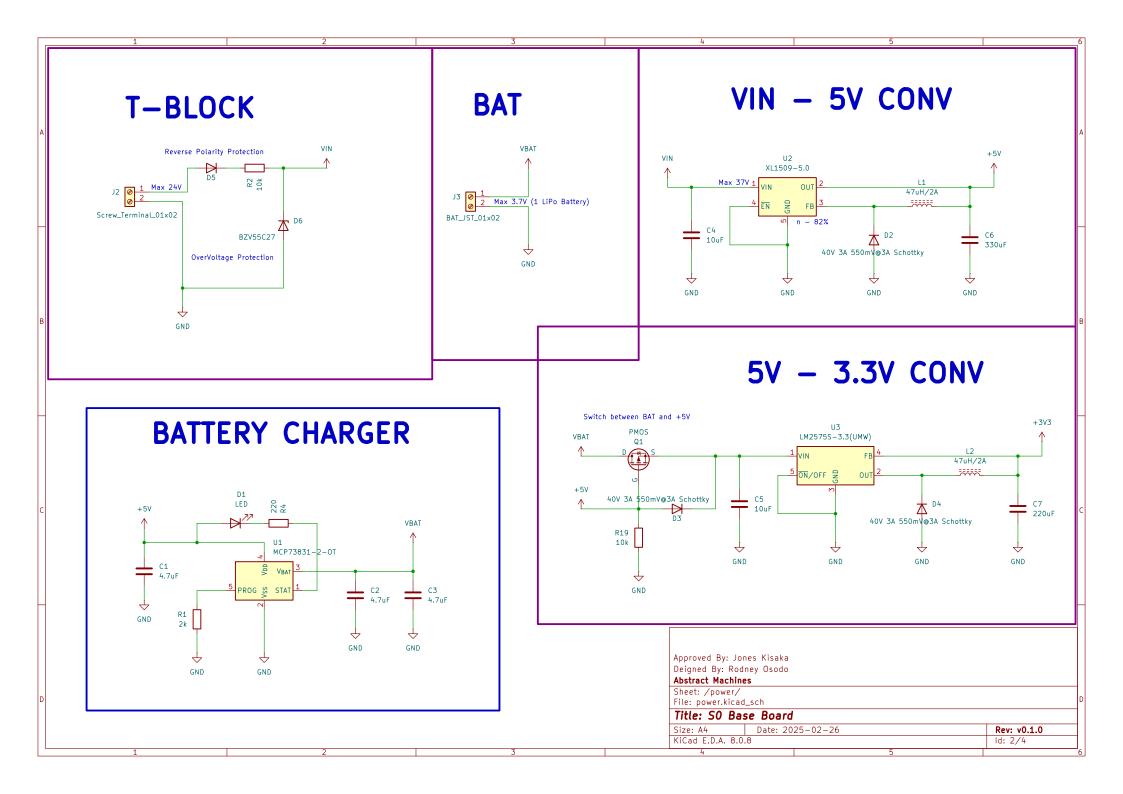
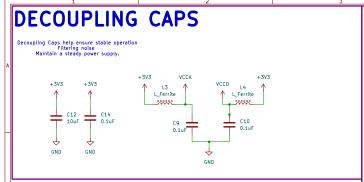
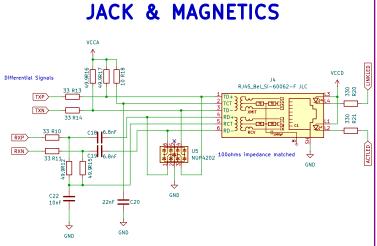
Connectors power File: power.kicad_sch File: connector.kicad_sch Ethernet Approved By: Jones Kisaka File: ethernet.kicad_sch Deigned By: Rodney Osodo Abstract Machines Sheet: / File: s0-base-board.kicad_sch Title: SO Base Board Size: A4 Date: 2025-02-26 Rev: v0.1.0 KiCad E.D.A. 8.0.8 ld: 1/4

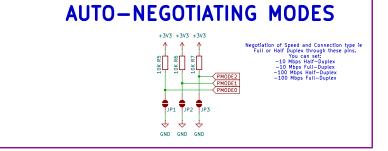




W5500 ETHERNET PHY/MAC U4 C16 C21 C23 C24 C25 C26 W5500 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF 0.1uF TXN TXP To ESP Master for communication Differential Signals Negotiation Pins PMODE2 SPDLED 24 LINKLED 25 LINKLED DUPLED 26 ACTLED EXRES1 25MHz VBG 18 TOCAP 22 1V20 22 18pF R9 12K 1% C17 4.7uF GND **↓** GND GND

4D02WGJ0103TCE GND 4D02WGJ0103TCE





Approved By: Jones Kisaka
Deigned By: Rodney Osodo

Abstract Machines

Sheet: /Ethernet/
File: ethernet.kicad_sch

Title: 50 Base Board

Size: A3 Date: 2025-02-26 Rev: v0.1.0

KiCad E.D.A. 80.8 Id: 3/4

BeagleBone Cape Board U6 BEAGLEBONEBLACK VDD_3V3B VDD_5V P9_5 P9_8 SYS_5V VDD_ADC P9_9 PWR_BUT Female Pin Headers connected to the BeagleBone Cape UART1_TXD P9_24 P9_10 SYS_RESET UART1_RXD P9_26 +3V3 UART2_TXD AIN0 P9_40 AIN1 P9_37 AIN2 UART2_RXD P9_22 +5V +3V3 Conn_02x23_0dd_Even Conn_02x23_0dd_Even P9_38 AIN3 P9_33 AIN4 UART4_TXD P9_13 +5٧ UART4_RXD P9_11 AIN5 P9_35 AIN6 UART5_TXD P8_37 UART5_RXD P8_38 B_UARTO_RX B_UARTO_TX UART3_CTSN P8_36 UART3_RTSN P8_34 P9_17 GND P9_18 I2C1_SDA UART4_CTSN P8_35 P8_33 UART4_RTSN P9_19 12C2_SCL P9_20 12C2_SDA UART5_CTSN P8_31 P8_32 UART5_RTSN P9_28 SPI1_CS0 P9_29 SPI1_D0 TIMER4 P9_30 SPI1_D1 TIMER7 P8_8 P9_31 SPI1_SCLK TIMER5 P8_9 TIMER6 P8_10 EHRPWM1A P9_16 EHRPWM1B GPI00_26 P8_17 GPI00_27 P8_19 EHRPWM2A P8_13 EHRPWM2B GPI00_7/GPI03_18 P9_42 GPI03_19 P9_27 P8_25 GPI01_0 CLKOUT2/GPI03_20 P9_41 P8_24 GPI01_1 P9_25 GPI03_21 P8_5 GPI01_2 GPI01_3 GPI02_1 P8_23 GPI01_4 GND P8_22 GPI01_5 GPI02_6 P8_3 GPI01_6 GPI02_7 P8_46 P8_4 GPI01_7 P8_43 GPI02_8 GPI02_9 P8_44 P8_12 GPI01_12 GPI02_10 P8_41 GPI01_13 GPI02_11 P8_16 GPI01_14 P8_39 GPI02_12 GPI02_13 P8_40 P8_15 GPI01_15 P9_15 GPI01_16 GPI02_22 P8_27 P9_23 GPI01_17 GPI02_23 P8_29 GPI02_24 P8_30 P9_12 GPI01_28 GPI02_25 P8_26 GPI01_29 P8_21 GPI01_30 Approved By: Jones Kisaka P8_20 GPI01_31 SHIELD Deigned By: Rodney Osodo **Abstract Machines** DGND Sheet: /Connectors/ GNDA_ADC File: connector.kicad_sch Title: SO Base Board Date: 2025-02-26 Size: A4 Rev: v0.1.0

KiCad E.D.A. 8.0.8

Id: 4/4