power

File: power.kicad_sch

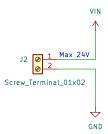
Connectors

File: connector.kicad_sch

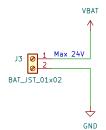
Ethernet

File: ethernet.kicad_sch

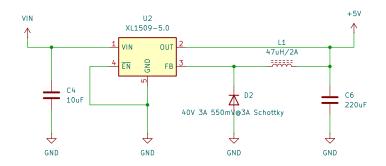
T-BLOCK



BAT

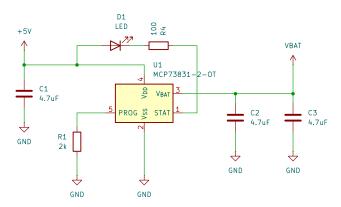


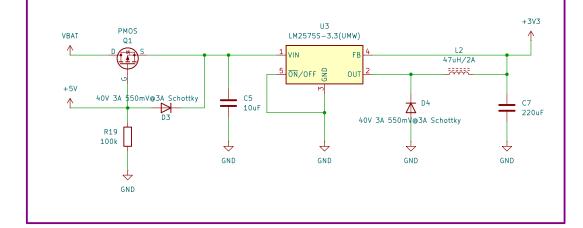
VIN - 5V CONV



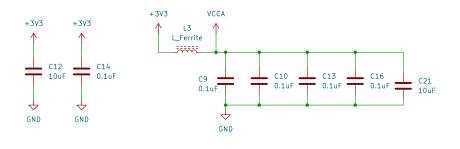
5V - 3.3V CONV

BATTERY CHARGER

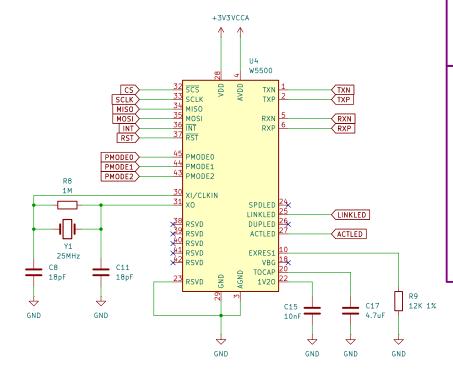




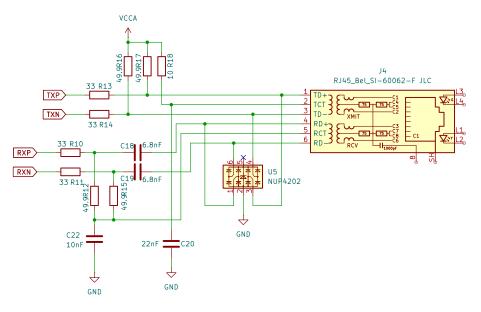
DECOUPLING CAPS



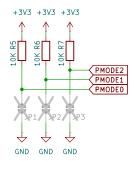
W5500 ETHERNET PHY/MAC



JACK & MAGNETICS



AUTO-NEGOTIATING MODES



U6 BEAGLEBONEBLACK

| | | 1 |
|--------------------|--------------------------|------------------------|
| | VDD_3V3B | <u>P9_8</u> |
| | VDD_5V | P9_5 _⊙ |
| | SYS_5V | P9_8 _⊙ |
| | VDD_ADC | P9_32 ₀ |
| | | |
| ⊖ <u>P9_9</u> | PWR_BUT UART1_TXD | P9_24 ₀ |
| _© P9_10 | SYS_RESET UART1_RXD | P9_26 ₀ |
| | | |
| _P9_39 | AINO UART2_TXD | P9_21 _© |
| _P9_40 | AIN1 UART2_RXD | P9_22 |
| _© P9_37 | AIN2 | |
| __ P9_38 | AIN3 UART4_TXD | P9_13 ₀ |
| _e P9_33 | AIN4 UART4_RXD | P9_11 _© |
| _ <u>P9_36</u> | AIN5 | |
| _ <u>P9_35</u> | AIN6 UART5_TXD | P8_37 _© |
| | UART5_RXD | P8_38 ₀ |
| ⊙ J1_4 | B_UARTO_RX | |
| ⊕ <u>J1_5</u> | B_UARTO_TX UART3_CTSN | P8_36 _© |
| | UART3_RTSN | P8_34 ₀ |
| <u>P9_17</u> | I2C1_SCL | |
| _P9_18 | I2C1_SDA UART4_CTSN | P8_35 ₀ |
| | UART4_RTSN | P8_33 _© |
| _P9_19 | 12C2_SCL | |
| _P9_20 | I2C2_SDA UART5_CTSN | P8_31 _© |
| | UART5_RTSN | P8_32 |
| _P9_28 | | |
| P9_29 | | P8_7 _⊙ |
| P9_30 | SPI1_D1 TIMER7 | P8_8 |
| | SPI1_SCLK TIMER5 | P8_9 |
| - | TIMER6 | P8_10 |
| P9_14 | | |
| P9_16 | EHRPWM1B GPI00_26 | P8_14 |
| - | GPI00_27 | P8_17 |
| P8_19 | EHRPWM2A | _ |
| P8_13 | | P9_42 |
| - | GPI03_19 | P9_27 |
| _G P8_25 | GPI01_0 CLKOUT2/GPI03_20 | P9_41 |
| P8_24 | GPI01_1 GPI03_21 | P9_25 |
| P8_5 | GPI01_2 | _ |
| P8_6 | GPI01_3 GPI02_1 | P8_18 |
| P8_23 | GPI01_4 | - |
| P8_22 | GPI01_5 GPI02_6 | P8_45 |
| P8_3 | GPI01_6 GPI02_7 | P8_46 |
| P8_4 | GPI01_7 GPI02_8 | P8_43 |
| - | GPI02_9 | P8_44 |
| _ <u>P8_12</u> | GPI01_12 GPI02_10 | P8_41 |
| P8_11 | GPI01_13 GPI02_11 | P8_42 |
| P8_16 | GPI01_14 GPI02_12 | P8_39 |
| P8_15 | GPI01_15 GPI02_13 | P8_40 |
| - | | l |
| P9_15 | GPI01_16 GPI02_22 | P8_27 _© |
| P9_23 | GPI01_17 GPI02_23 | P8_29 |
| - | GPI02_24 | P8_28 |
| P9_12 | GPI01_28 GPI02_25 | P8_30 |
| - | - 01102_23 | l |
| _P8_26 | GPI01_29 NC | J1_8_x |
| P8_21 | GPI01_30 | l " |
| P8_20 | GPI01_31 SHIELD | P≣⊕ |
| | Jilieu | |
| | DGND | FF999_465 ₀ |
| | GNDA_ADC | P9_34 |
| | 010/0/00 | J |

