

SIM7080G

File: peripherals.kicad_sch

MCU

WMBUS

File: wmbus.kicad_sch

power

File: power.kicad_sch

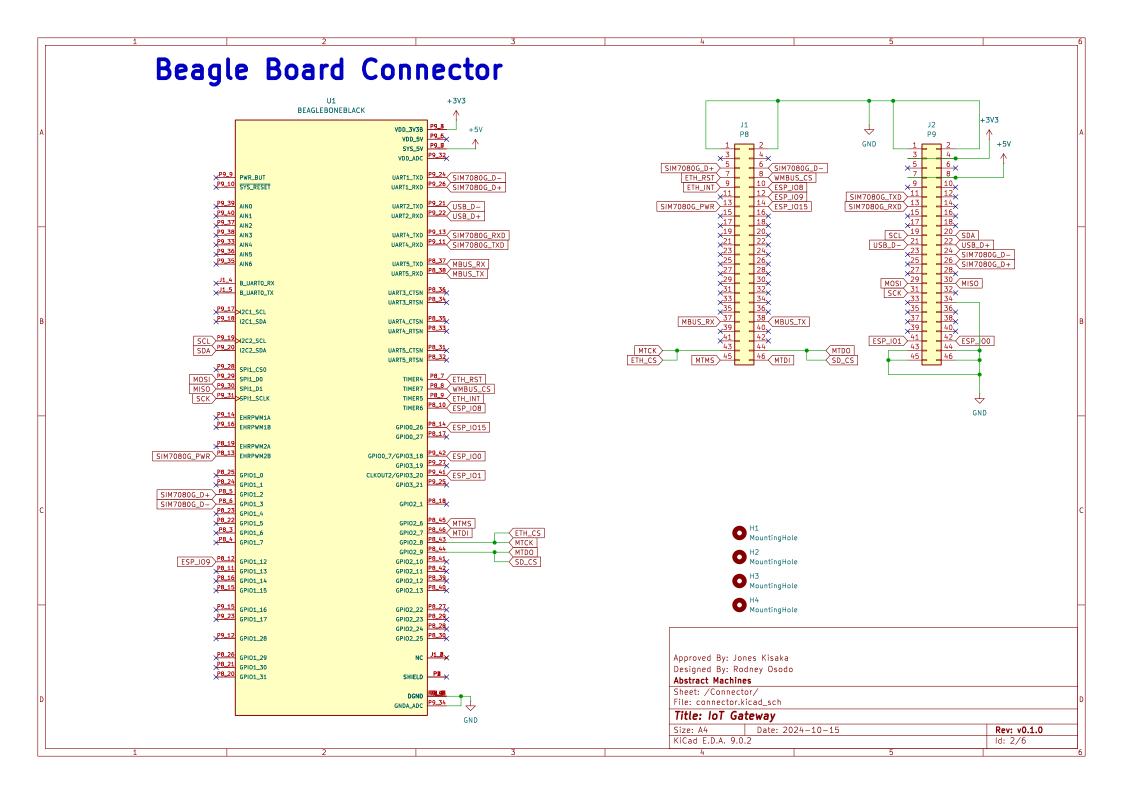
Approved By: Jones Kisaka Designed By: Rodney Osodo Abstract Machines

Sheet: /

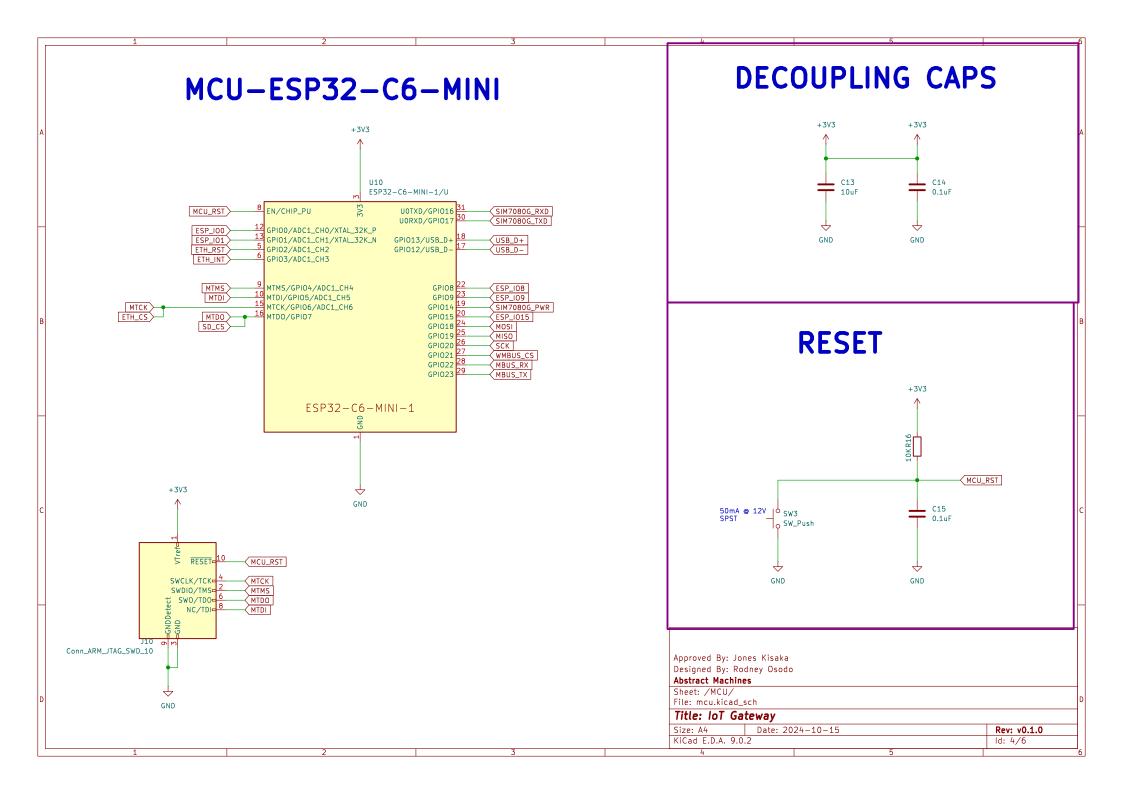
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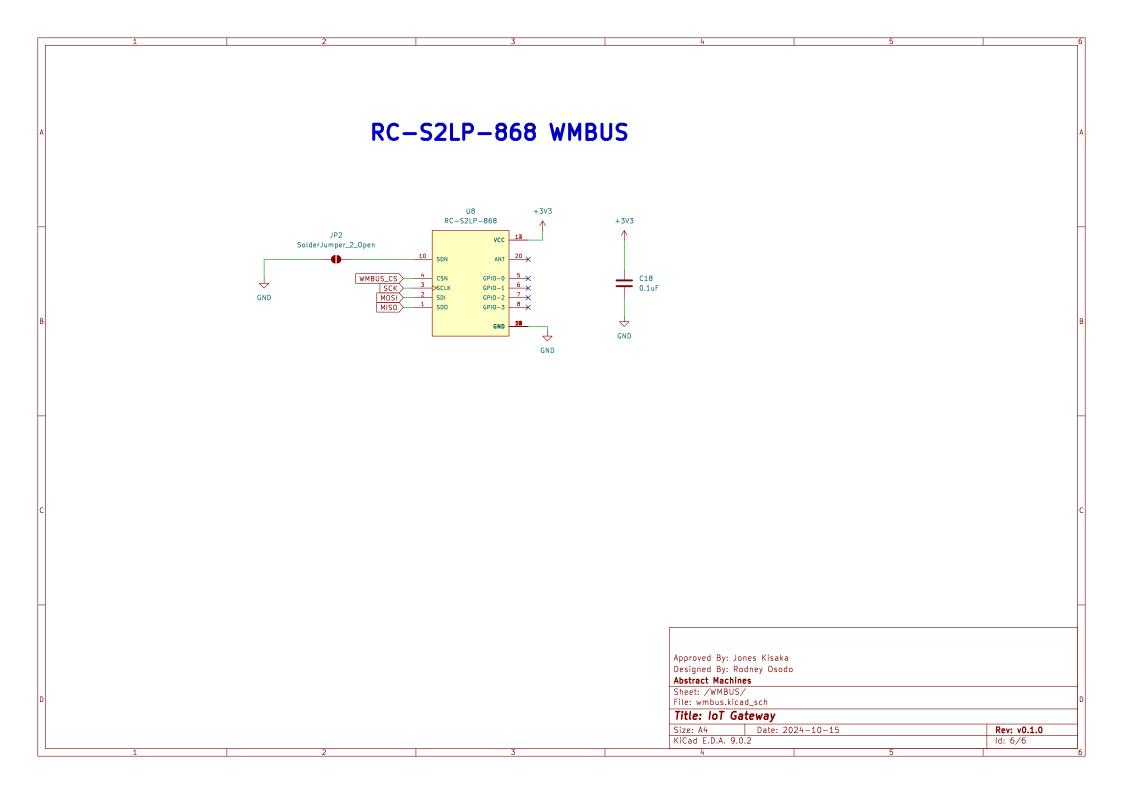
Title: IoT Gateway

Size: A4 Date: 2024-10-15 Rev: v0.1.0 KiCad E.D.A. 9.0.2 ld: 1/6

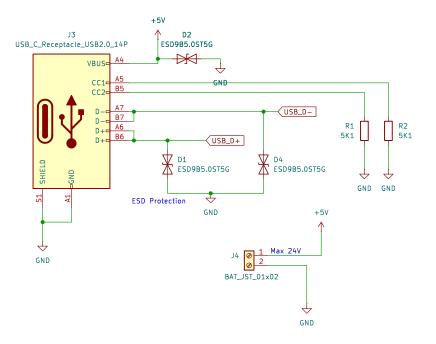


ANTENNAE SIM7080G STATUS LEDS J5 Conn_Coaxial 50Ω GNSS_ANT U3 SIM7080G R9 100 R13 100 +1V8 PWR_KEY V(s)=1.8V V(f)=1.2V R=50 I(f)=12mA GND GND GND NETLIGHT USB_BOOT HAN1102W-1-TR R4 10KSolderJumper_2_Open RF_ANT NETLIGHT X 4 UART1_CTS X 5 UART1_DCD X 6 UART1_DTR X 7 UART1_RI X 3 UART1_RTS UART1_RTS UART1_RXD J6 Conn_Coaxial 50Ω RF_ANT ANT_CONTROL1 43 × 44 × 50Ω R11 47K I2C_SDA 1 UART1_TXD USB_VBUS × 23 UART2_RXD UART2_TXD GND GND GND USB_DP PCM_CLK< PCM_DIN PCM_DOUT PCM_SYNC 11 10 12 X The input and output impedance are matched × 62 V 61 UART3_RXD UART3_TXD **LEVEL SHIFTER** | SPL_CLK<| 50 × 48 × | | SPL_MISO | 51 × 49 × | | SPL_MOSI | 49 × | 15 SIM_DATA 17 SIM_RST 18 SIM_VDD R10 100 R14 100 +1V8 +3V3 × 57 GPI01 GPI02 GPI03 GPI04 GPI05 59 60 4 4 4 4 * * * * ESDA6V1SC5 GND 8 GND_1 13 GND_2 19 GND_3 21 GND_4 27 GND_5 30 GND_6 31 GND_6 36 GND_9 37 GND_1 65 GND_1 65 GND_1 67 GND_1 67 GND_1 7 GND_2 0 GND_2 7 GND_2 7 GND_2 7 GND_2 7 GND_2 7 GND_2 7 GND_2 1 GND_2 1 GND_2 2 GND_2 7 GND_2 1 C12 0.1uF 4.7K HAN1102W-1-TR STATUS R12 47K GND TXB0108RGY GND SIM CARD GND U5 NANO SIM XG6P H1.35 SIM POWER CONTROL GND 11 GND 10 SIM_VDD SIM_RST SIM_CLK PWR_KEY C7 0.1uF R5 4.7K **DECOUPLING CAPS** SIM_DATA Q1 SS8050 SIM7080G_PWR> D9 ESD9B5.0ST5G +3V3 +3V3 R8 47K C3 10uF GND Approved By: Jones Kisaka Designed By: Rodney Osodo Abstract Machines Sheet: /SIM7080G/ File: peripherals.kicad_sch Title: IoT Gateway

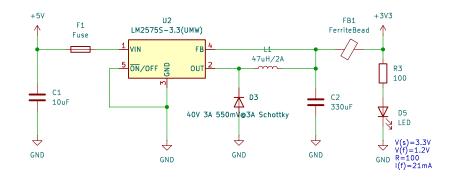




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