M2 Connector

File: connector.kicad_sch

SIM7080G

File: peripherals.kicad_sch

Approved By:

Designed By: Rodney Osodo

Abstract Machines

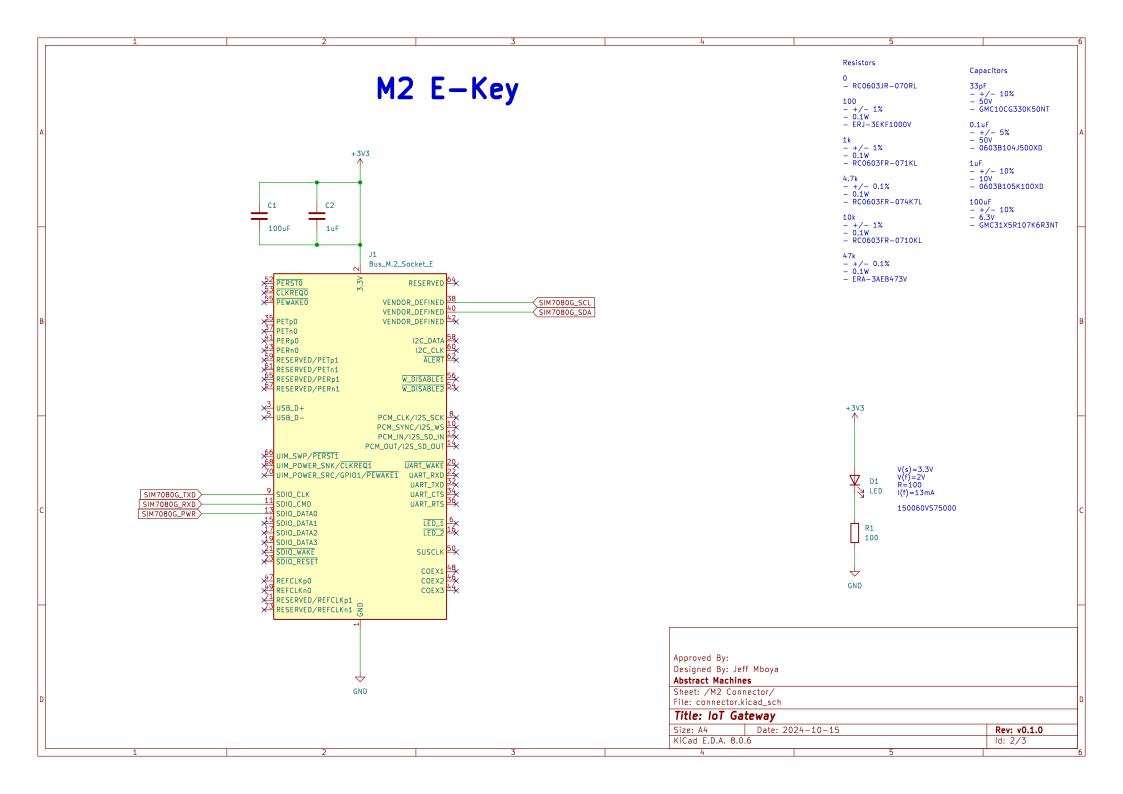
Sheet: /

File: am-iot-gateway.kicad_sch

Title: IoT Gateway

 Size: A4
 Date: 2024-10-15
 Rev: v0.1.0

 KiCad E.D.A. 8.0.6
 Id: 1/3



ANTENNAE SIM7080G STATUS LEDS 50Ω GNSS_ANT +1V8 U2 SIM7080G GNSS Antenna R3 100 R4 100 50Ω PWR_KEY> V(s)=1.8V V(f)=1.2V R=50 I(f)=12mA VDD_EXT Z D2 LED GND GND GND USB_BOOT HAN1102W-1-TR SolderJumper_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 50Ω RF_ANT ANT_CONTROL1 43 × 44 × R9 47K RF Antenna 12C_SDA 64 50Ω 1 UART1_TXD USB_VBUS 24 × 26 × USB_DP 25 × × 23 UART2_RXD UART2_TXD GND GND PCM_CLK< PCM_DIN PCM_DOUT PCM_SYNC 11 12 11 X 9 10 12 X The input and output impedance are matched × 62 V 61 UART3_RXD UART3_TXD LEVEL SHIFTER +1V8 15 SIM_DATA 17 SIM_RST 18 SIM_VDD R11 100 +3V3 +1V8 × 57 GPI01 GPI02 GPI03 GPI04 GPI05 59 60 4 4 4 4 * * * * V(s)=1.8V V(f)=1.2V R=50 I(f)=12mA C10 ESDA6V1SC5 GND 13 GND_1 13 GND_2 19 GND_3 21 GND_4 27 GND_5 30 GND_6 31 GND_7 33 GND_6 36 GND_9 37 GND_10 65 GND_11 63 GND_12 66 GND_13 67 GND_14 69 GND_15 70 GND_16 71 GND_17 72 GND_17 72 GND_19 74 GND_19 74 GND_19 74 GND_19 75 GND_19 75 GND_19 75 GND_19 75 GND_10 75 GND_19 75 GND_10 75 GND_10 77 GND_10 77 GND_11 77 GND_11 77 GND_12 75 GND_12 75 GND_20 75 GND_21 76 GND_21 76 GND_22 77 C11 0.1uF 4.7K HAN1102W-1-TR STATUS UART1_TXD UART1_RXD GND R14 47K GND U3 TXB0108RGY GND SIM CARD J5 NSIM-5-B VCC VCC_1 VPP C6 X SIM_VDD C2_1 RST RST_1 SIM_RST SIM_DATA C3_1 CLK C3_2 CLK_1 SIM_CLK COVER_GND COVER_GND__1 COVER_GND__2 PWR_KEY +3V3 +3V3 R15 4.7K COVER_GND__4 COVER_GND__5 SIM7080G_PWR C13 C16 C14 C15 R16 47K 100uF 100uF 100uF Approved By: GND GND GND GND Designed By: Jeff Mboya Abstract Machines Sheet: /SIM7080G/ File: peripherals.kicad_sch Title: IoT Gateway