

Buck / Boost

Hat Power LED Indicator

The diagram shows a Buck/Boost converter circuit (U1) used for a Hat Power LED Indicator. The input is +3.3V, which is connected to the VIN pin of the converter. A 2.2k resistor (R1) and a diode (D1) are connected in series with the input. The output of the converter is +3.6V, which is connected to the LED indicator (D2). The circuit includes several passive components: a 22uF capacitor (C1) at the input, a 100k resistor (R2) and a 510k resistor (R3) at the output, and two 22uF capacitors (C2 and C3) at the output. The converter is labeled U1 and has pins VIN, EN, MODE, L1, L2, VOUT, FB, PG, AGND, and GND.

USB-C

Standard USB 2.0 Speed

Hat Female Headers

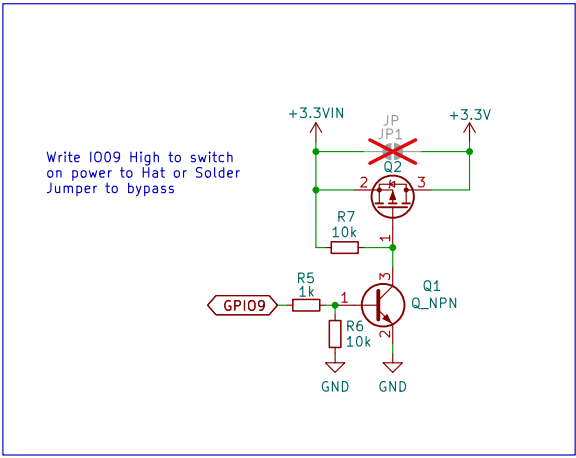
Stackable Header Pins for Hats us 8.5 – 11mm Pin Length

V_Supply_F Fused Supply to Hat
V_IN Supply AUX power from Hat
Ude Diode on Hat if Needed

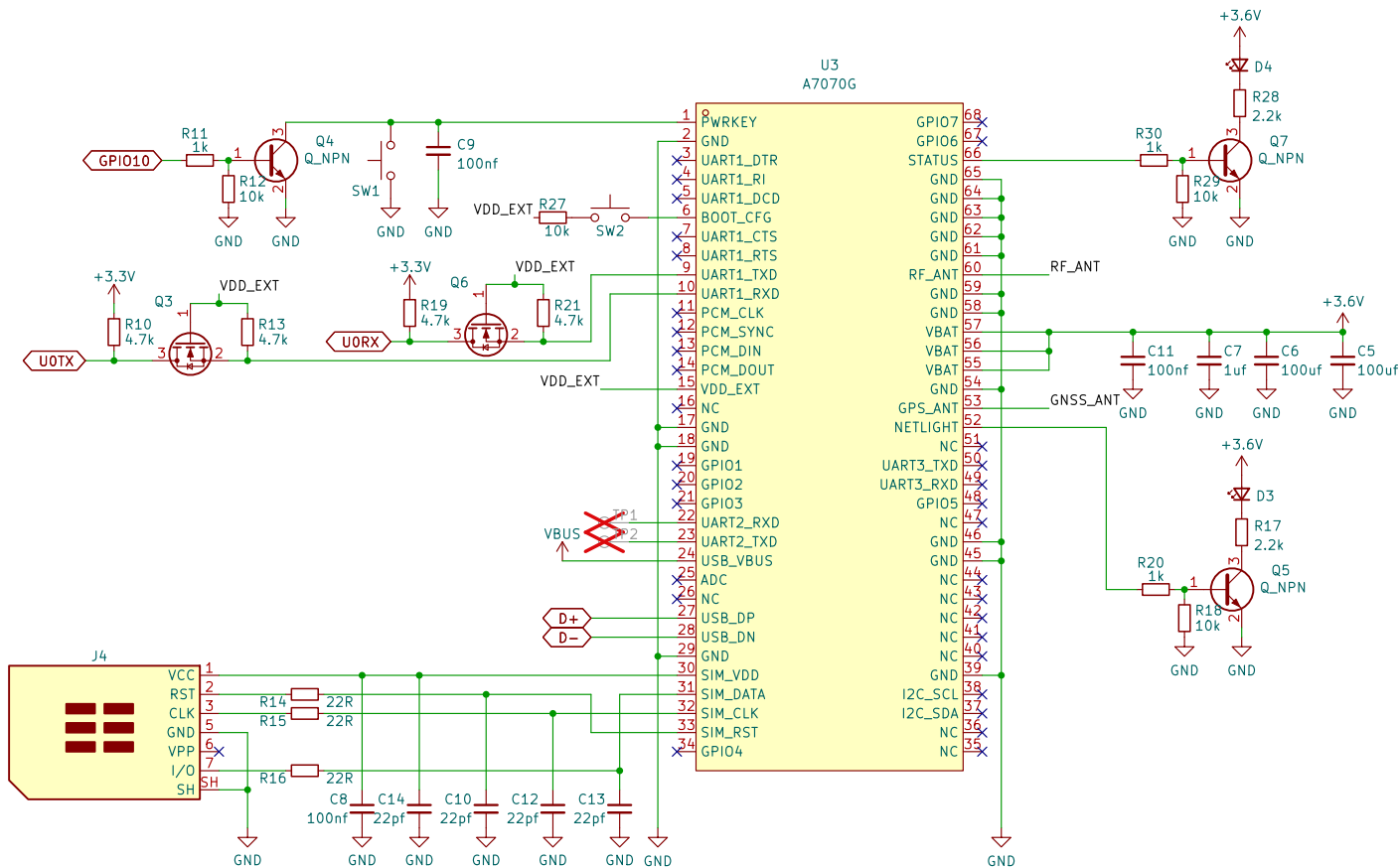
The diagram illustrates two types of Hat female headers, H1 and H2, and their correct wiring. Header H1 (left) has pins 1 through 10. Pins 1 and 2 are connected to +3.3VIN. Pins 3 through 10 are connected to GND. Header H2 (right) has pins 1 through 10. Pins 1 and 2 are connected to V_SUPPLY_F. Pins 3 through 10 are connected to GND. A red 'X' is drawn over the incorrect wiring for both headers, indicating that the pins should not be connected to the wrong signals.

Legend:

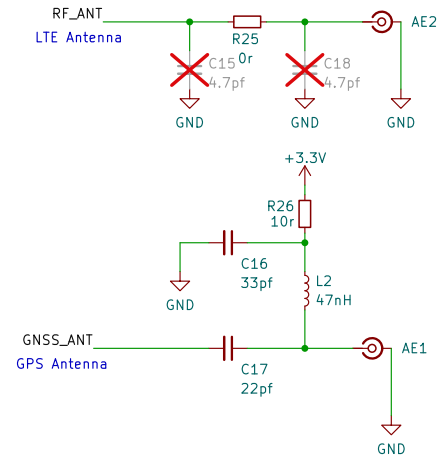
- H1
- H2



SimCom 7070G



Antenna



Sheet: /GSM/
File: GSM.kicad_sch

Title: GSM

Size: A4
KiCad E.D.A. 10.0.4

Date:

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