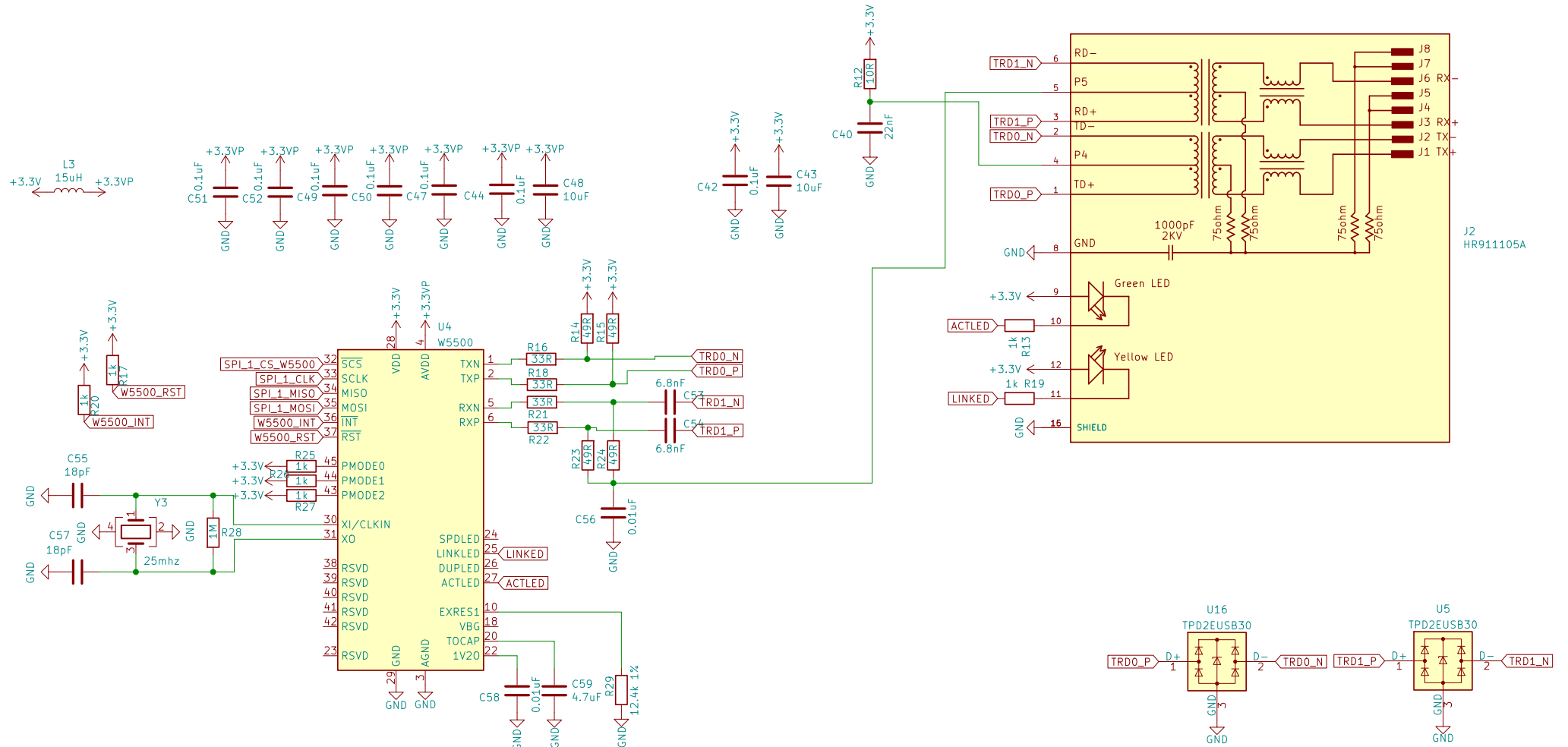


The diagram shows a buck converter circuit. The input is +12V, which is connected to the VIN pin (pin 1) of the RT8259 IC (U2). The EN pin (pin 4) is connected to GND. The BOOT pin (pin 5) is connected to the VIN pin. The PHASE pin (pin 6) is connected to the SW pin (pin 1) through a 0.01μF capacitor (C23). The FB pin (pin 3) is connected to the output voltage divider. The output voltage is +3.3V, which is connected to the +3.3V output pin. The output is filtered by a 100μF capacitor (C26) and a 100μF capacitor (C27). The output is also connected to a 0.1μF capacitor (C29). The output is connected to the +3.3V output pin. The output is connected to the +3.3V output pin. The output is connected to the +3.3V output pin.

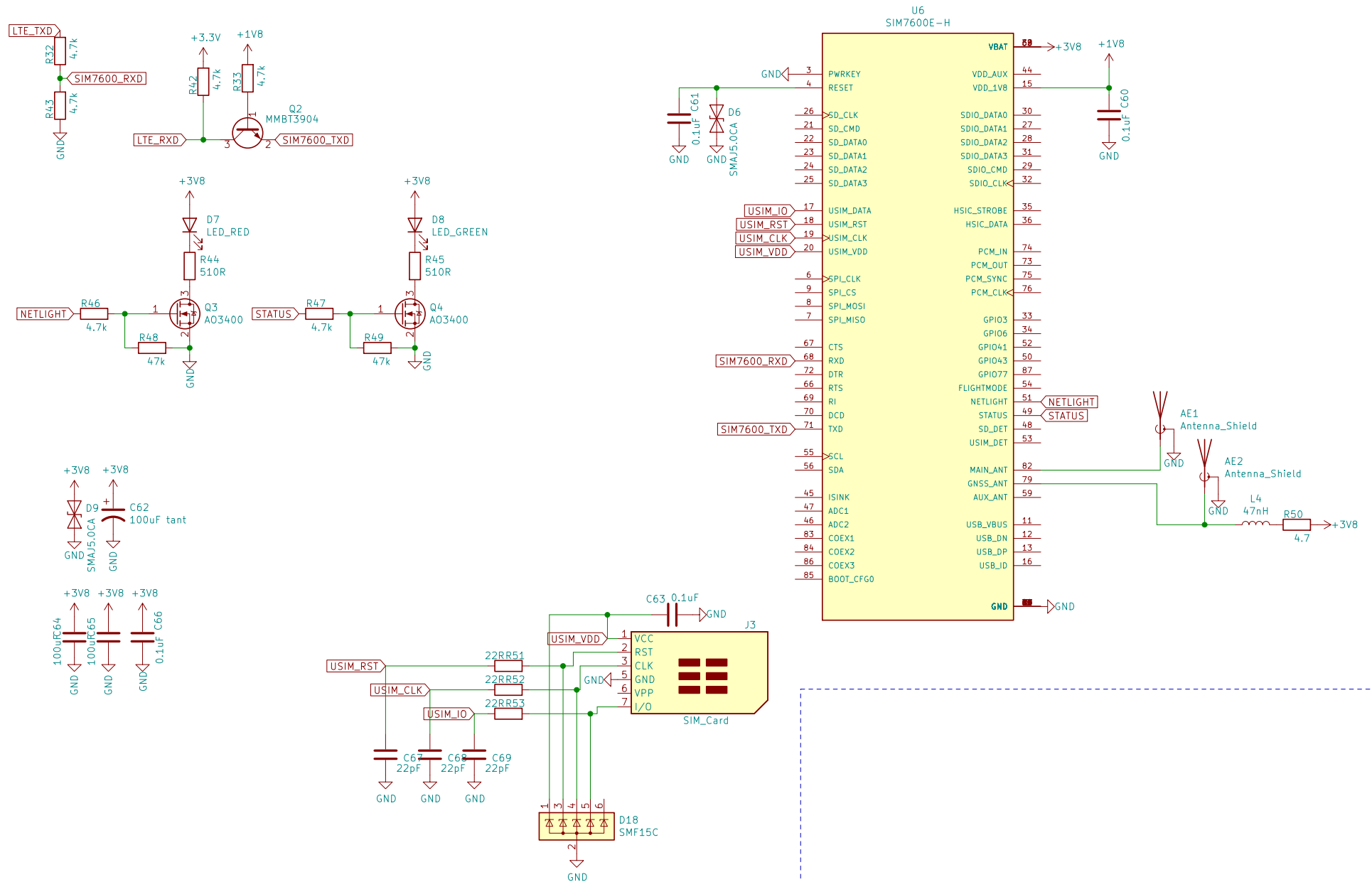
The diagram illustrates a buck converter circuit designed to step down a +12V input to a +5V output, capable of supplying 1.2A. The central component is the RT8259 IC (U3), which is configured with its VIN pin to the input, EN pin to ground, and FB pin to a feedback network consisting of a 12k resistor (R10) and a 62k resistor (R9) connected to the output. The switching node is connected to an inductor L2 (6.8uH) and a diode D5 (1N5819) to ground. The output is filtered by a 100uF capacitor (C33) and a 0.1uF capacitor (C34). The input is filtered by a 0.1uF capacitor (C32) and a 100uF capacitor (C31). The output is also filtered by a 0.1uF capacitor (C38).

The diagram illustrates a 5V 1.2A buck converter circuit. The input is a +12V supply, which is connected to the VIN pin (pin 5) of the RT8259 IC (U19). A 0.1μF capacitor (C94) is connected between the +12V supply and ground. The EN pin (pin 4) is connected to ground through a 10kΩ resistor (R11) and is labeled "Nexion\_Enable". The BOOT pin (pin 1) is connected to the SW pin (pin 6) through a 0.01μF capacitor (C35). The PHASE pin (pin 6) is connected to the SW pin (pin 6) through a 1N5819 diode (D24). The FB pin (pin 3) is connected to the SW pin (pin 6) through a 12kΩ resistor (R91). The SW pin (pin 6) is connected to the output of the buck converter, which is a 5V supply. The output is connected to the SW pin (pin 6) through a 6.8μH inductor (L6). The output is also connected to ground through a 100μF capacitor (C104) and a 0.1μF capacitor (C106). The output is labeled "Nexion\_VCC".

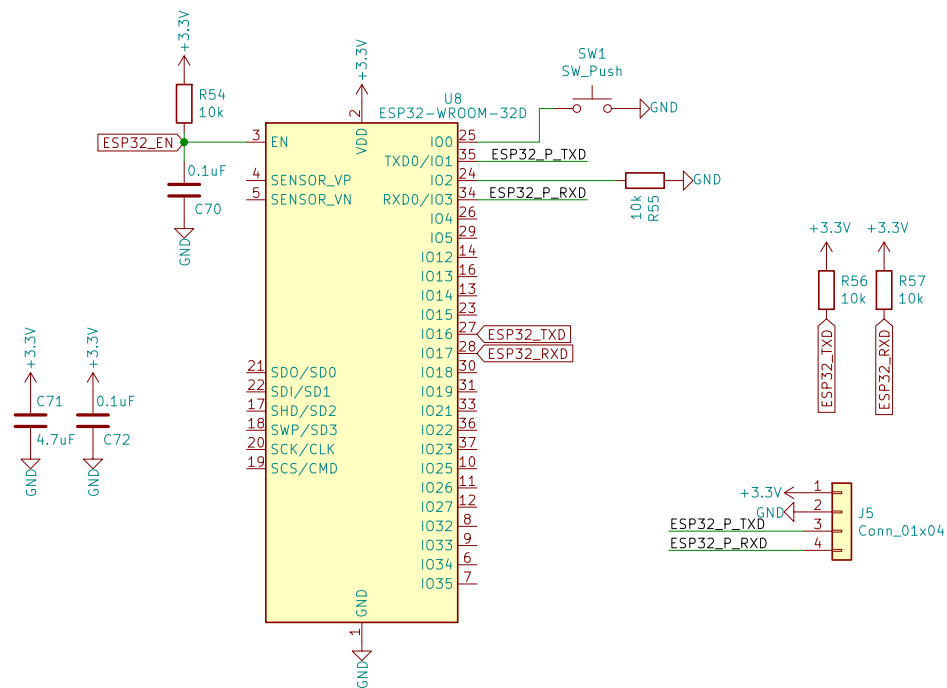
# Ethernet



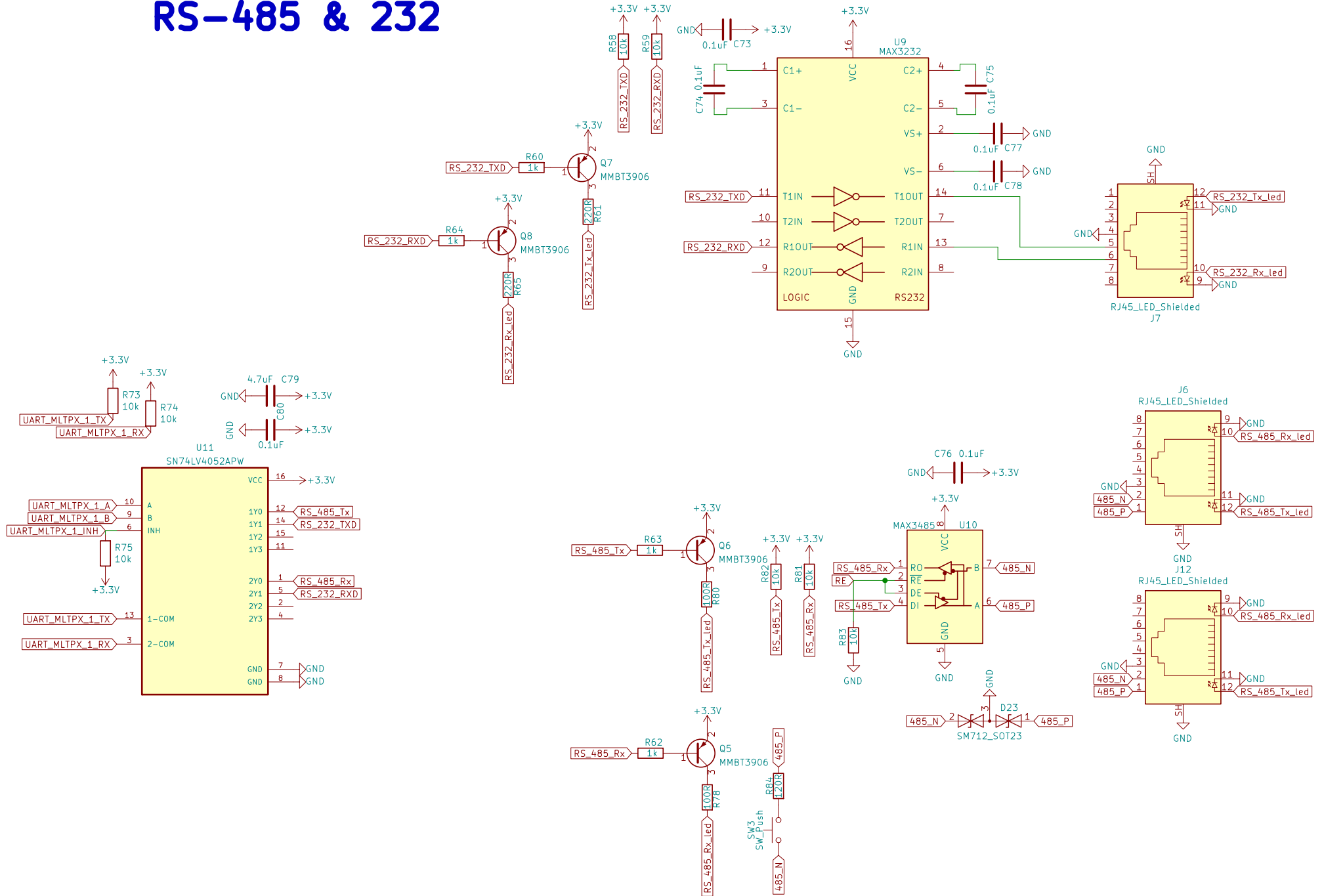
**LTE/GNSS**



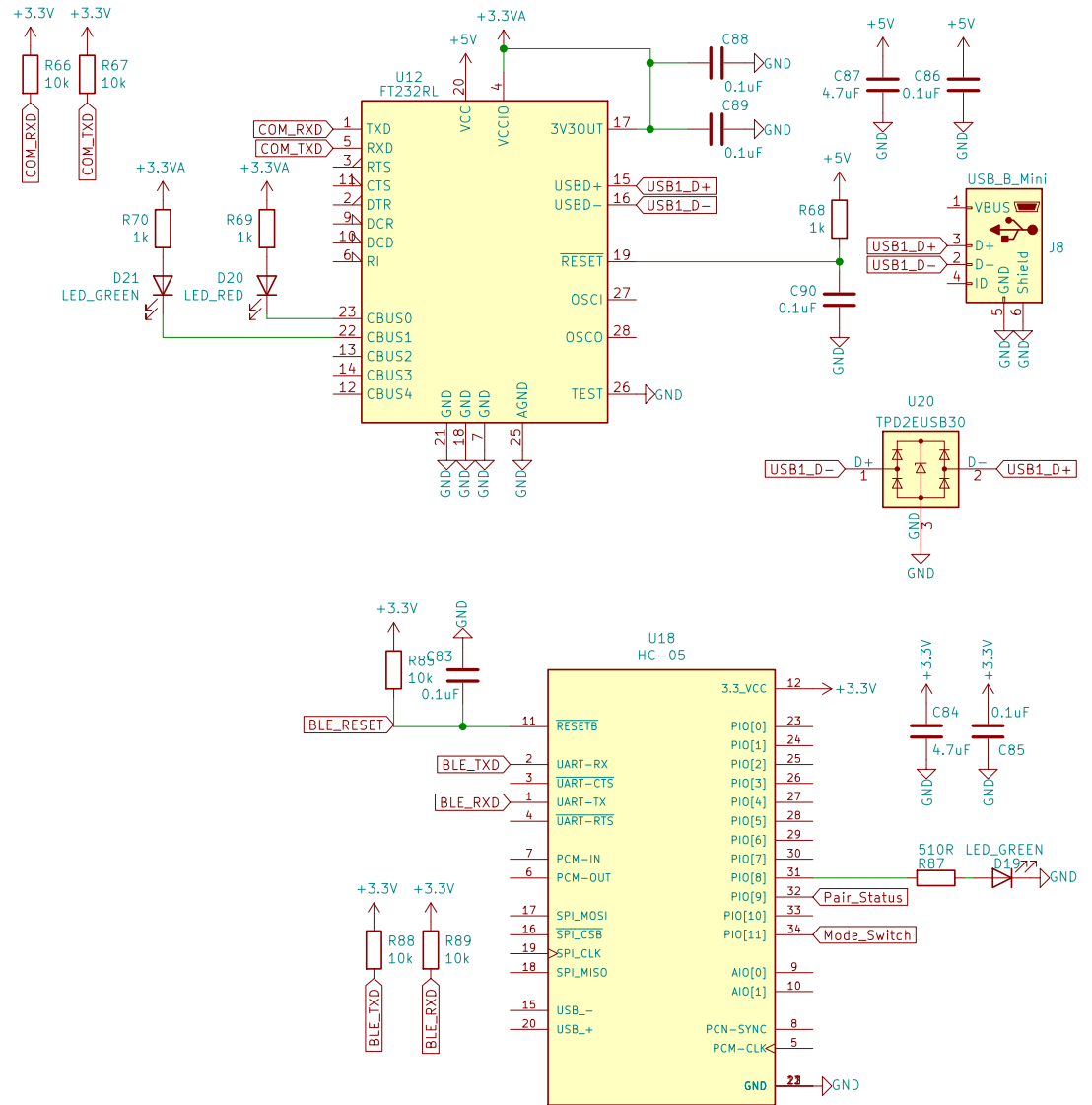
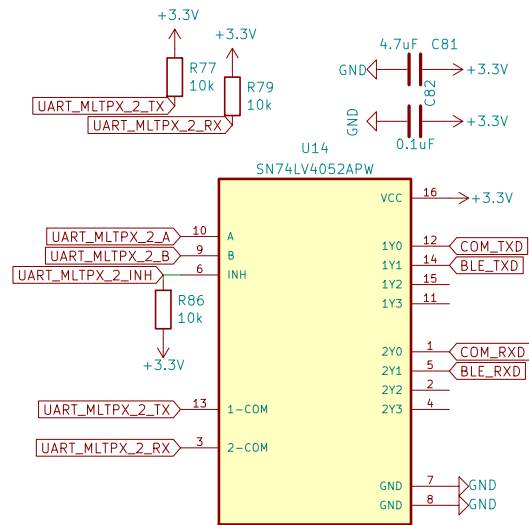
## WiFi



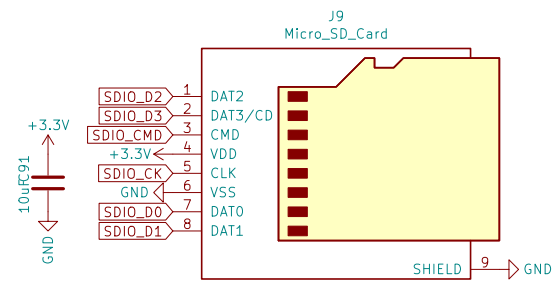
# RS-485 & 232



# COM PORT & BLE

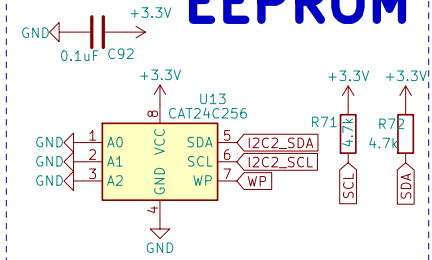


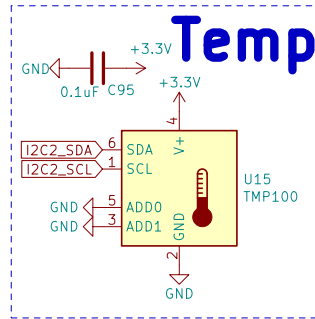
# Micro SD CARD



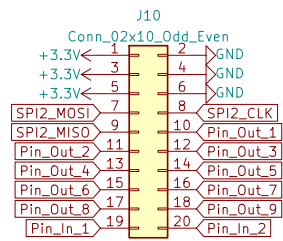


# EEPROM





## IDC



## Nextion

