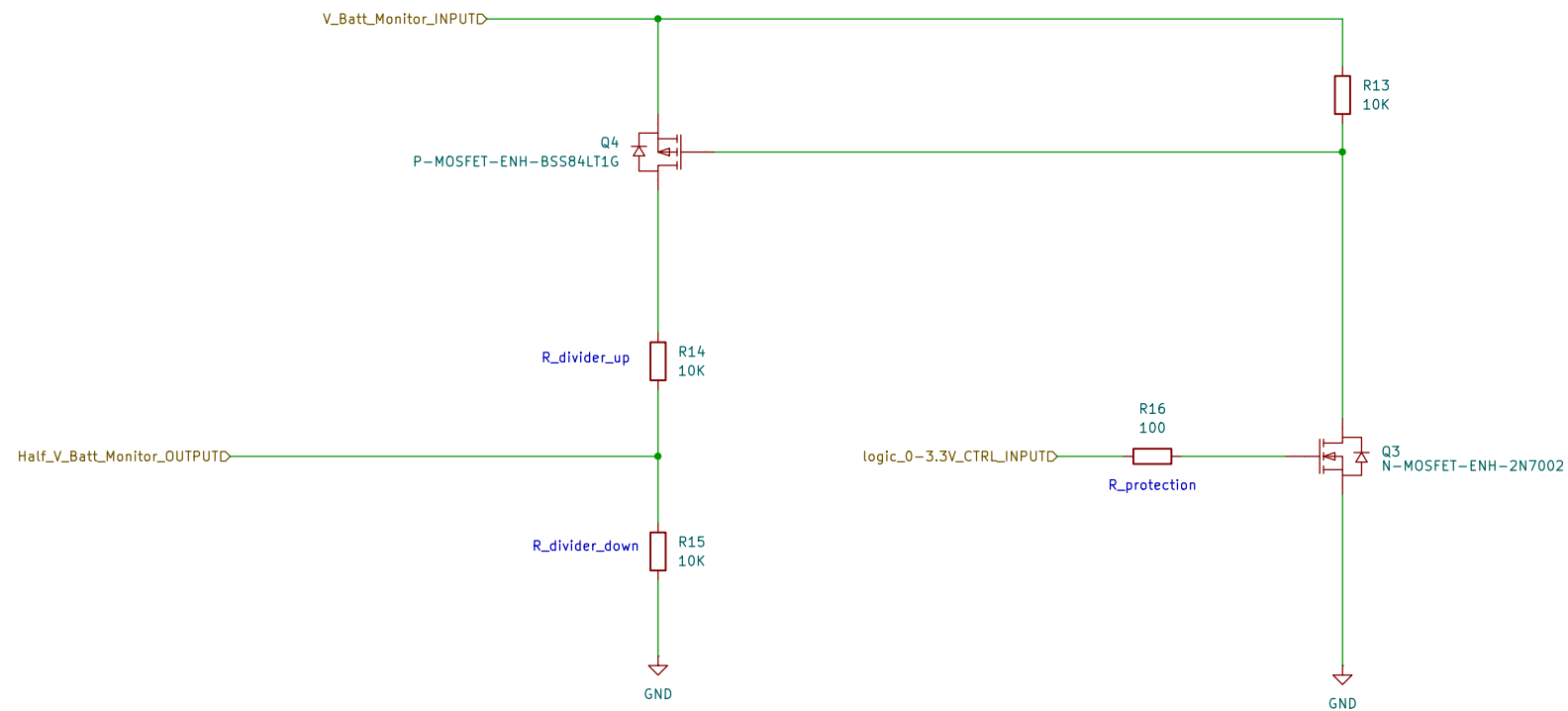


The ESP32 goes in BOOT0 when I00 goes low (I00 connected directly to GND). And in RESET when I00 goes low (I00 connected directly to GND). The switches have the pins 1 & 2 directly connected, and also the pins 3 & 4. But the button, is not being pressed, the pin-2 is not connected. On page 3-4, Viceversa, when the button is being pressed, 1 connects to 3, while 2 connects to 4. So we just need to have the BOOT0 and the RESET pins as desired, that is the direct connection between I00/ENA to GND. In reality we just need to use one pair of pins to connect I00/ENA to GND when the button is being pressed, and I00/ENA to VCC when the button is not being pressed. But in our case, even if we use all the pairs, the behaviour is still the same (the direct connection between I00/ENA to GND, and with two Vccs instead of one). So we can use the same code as in R01, and the effect that occurs when we press the button.



This Buck-Boost (TPS63001DRCR) is an efficient converter (up to 96%), and can convert either the 5V coming from the USB, or eventually the 3-3.6V coming from the batteries, to fixed 3.3V necessary for the esp32.

