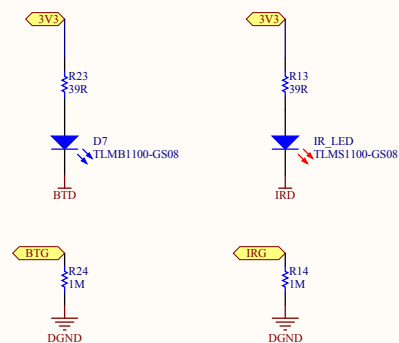
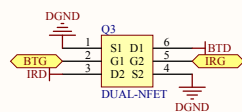


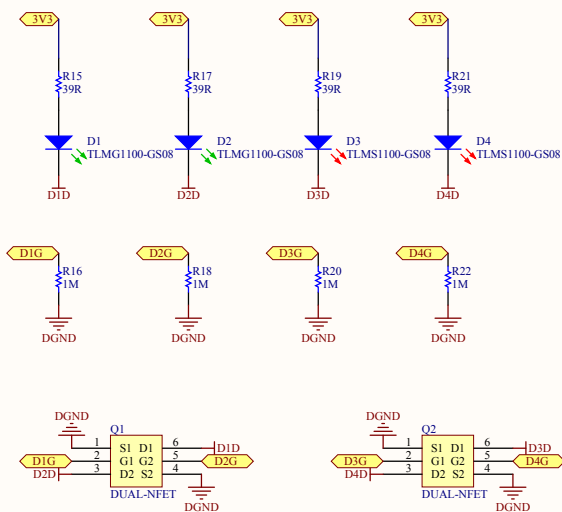
IR Weapon



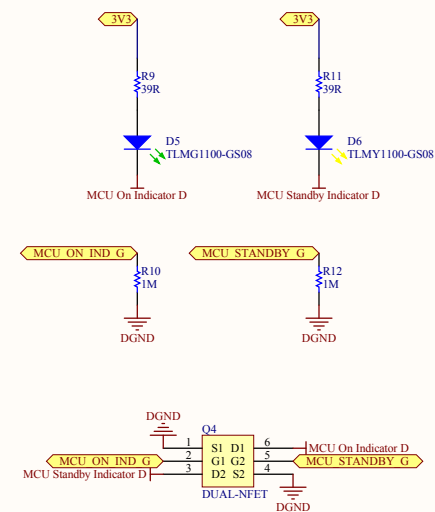
All LEDs are switched on/off using MOSFETs. A 1M Ohm resistor is connected between the gate and ground (source). This acts as a pull-down and despite appearing to be a large resistance it is small when compared to the resistance of the gate.



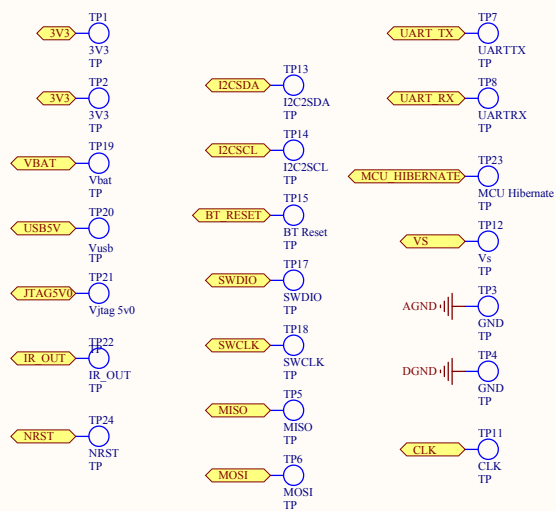
Debug LEDs



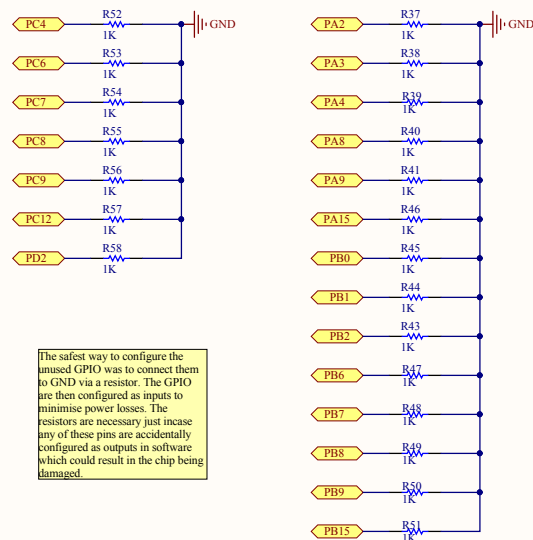
MCU Status Indicators



Test Points



Unused GPIO



The safest way to configure the unused GPIO was to connect them to GND via a resistor. The GPIO are then configured as inputs to minimise power losses. The resistors are necessary just in case any of these pins are accidentally configured as outputs in software which could result in the chip being damaged.