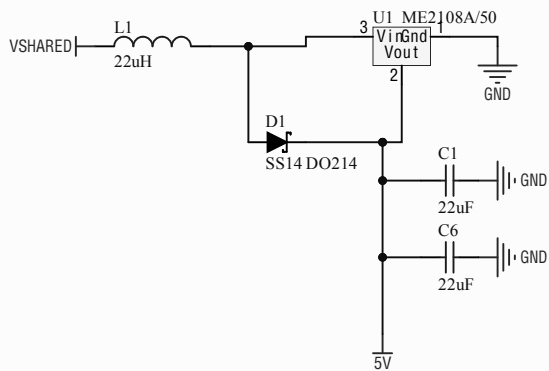
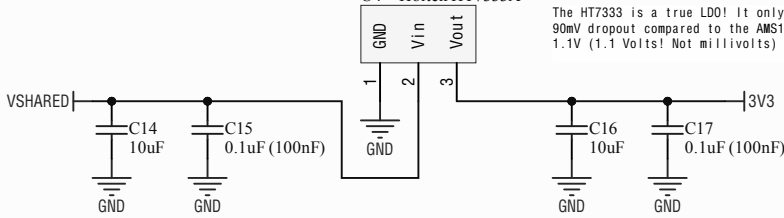


# ATmega328 Playground

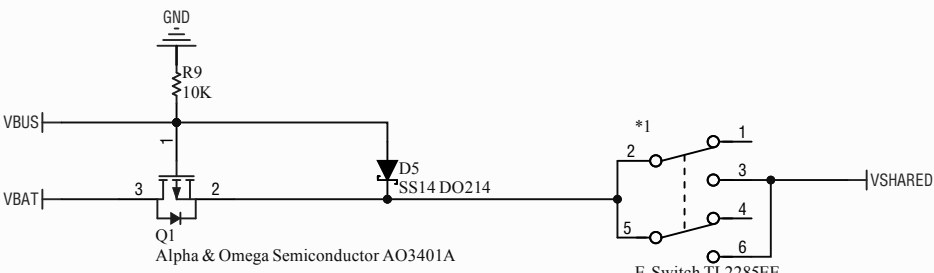
DC-DC Boost Regulator for 5.0V



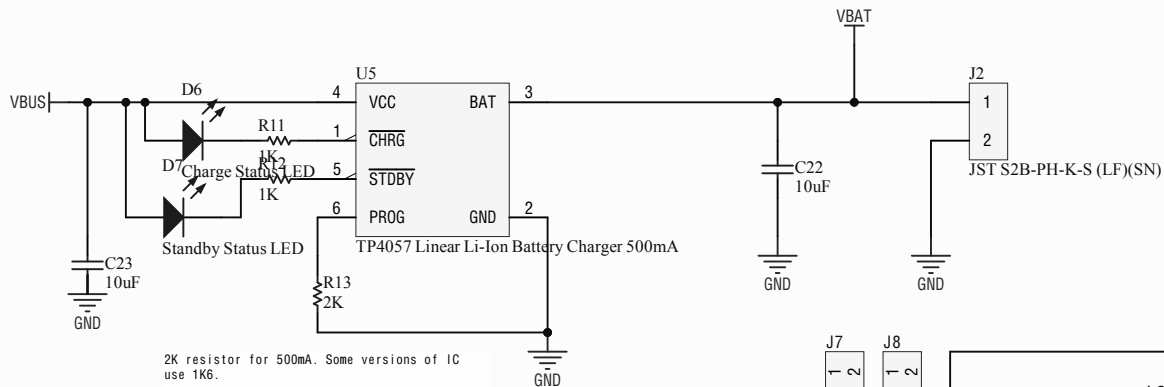
LDO Regulator for 250mA @ 3V3, Dropout 90mV



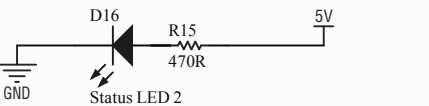
Load Sharing



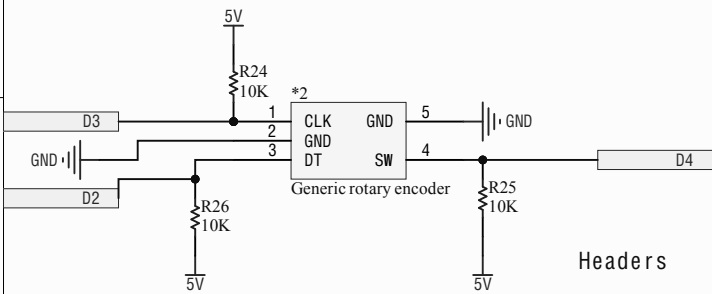
Li-Po Charge Management (500mA)



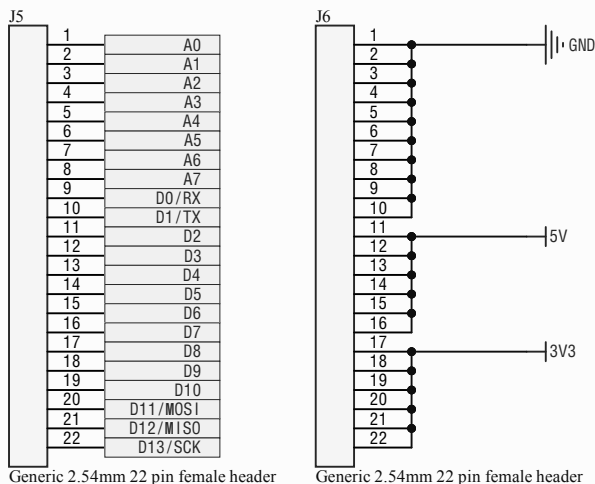
Power On Indicator



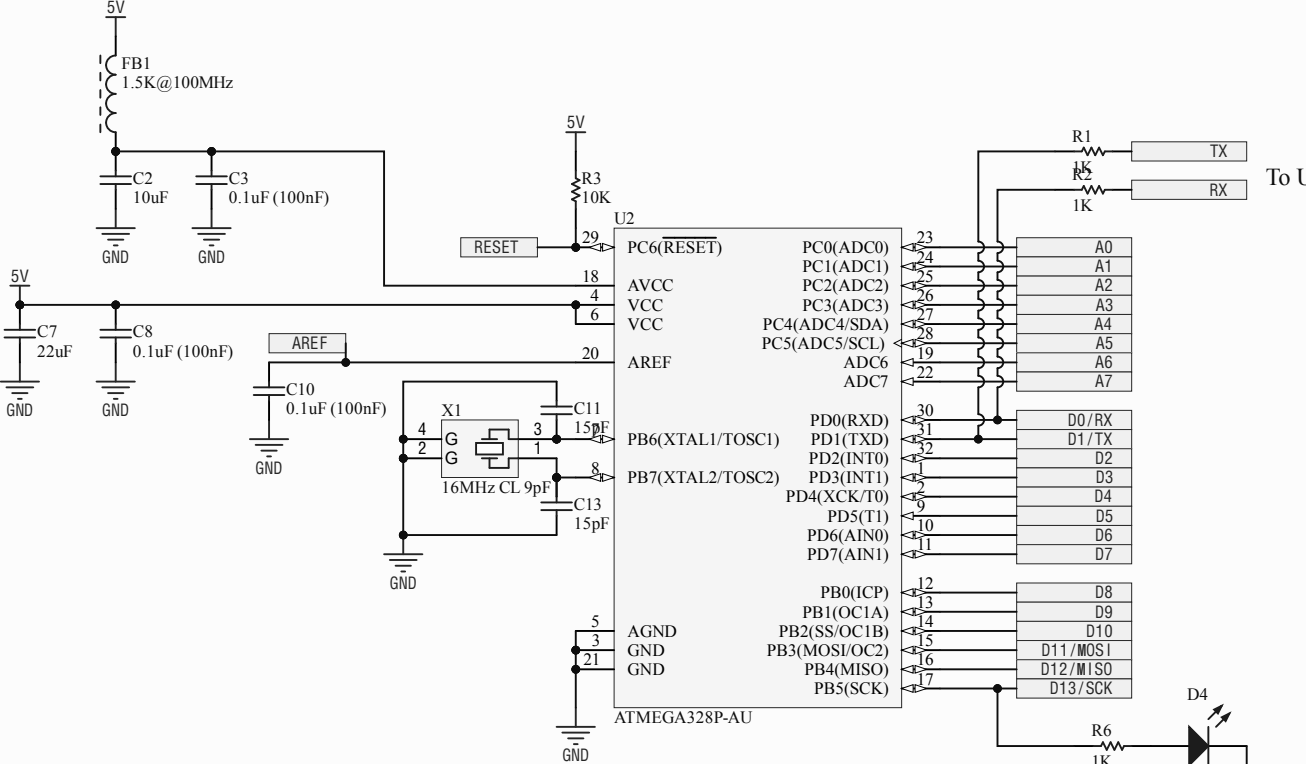
Rotary Encoder Input



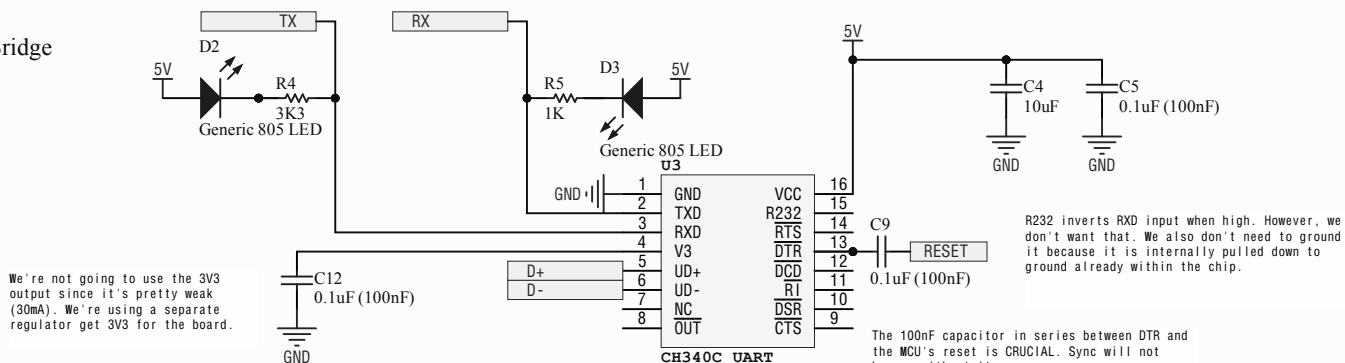
Headers



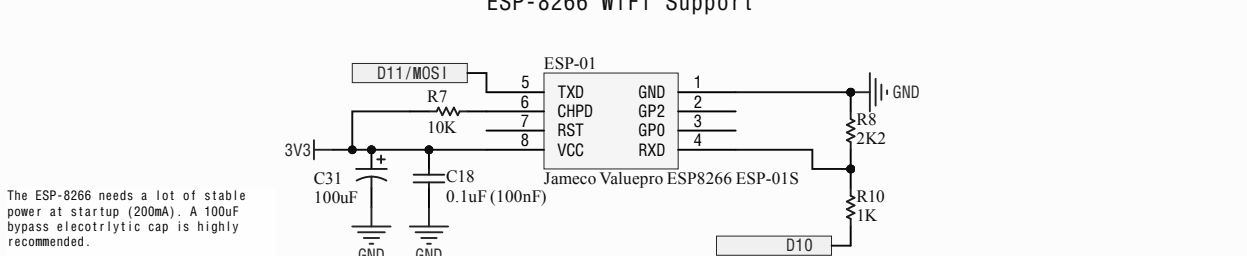
MCU



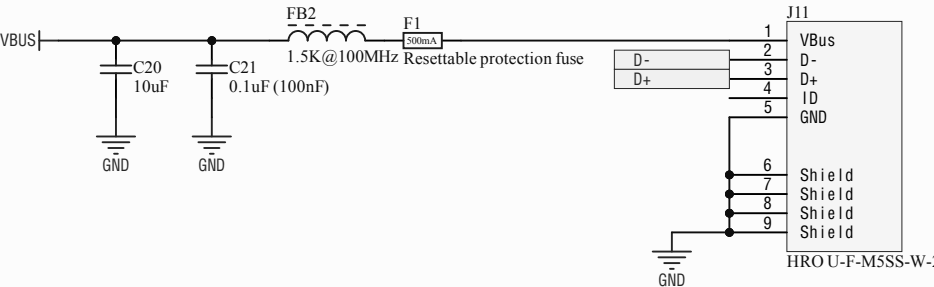
To USB-Serial Bridge



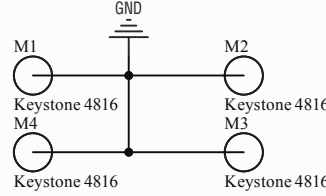
ESP-8266 WiFi Support



USB Connection

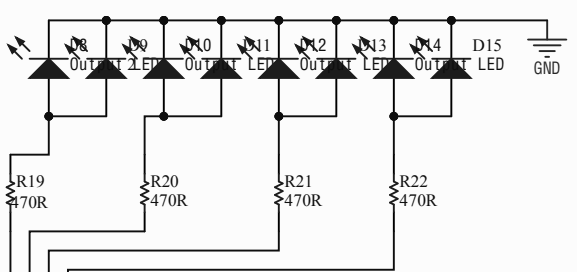


Mounting Holes



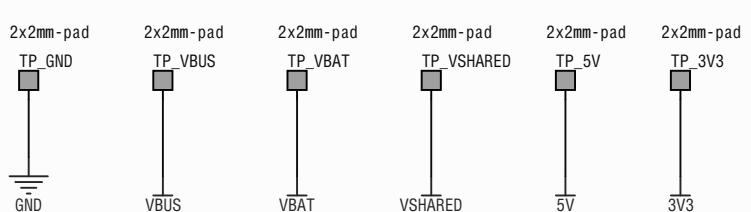
Demultiplexed LED Output

5mm LEDs placed in parallel to 805 LEDs so we have the option of installing either type.



Regarding the Enable pin: Unlike some TTL logic, pull-ups/pull-downs do not need resistors for digital inputs in CMOS ICs (most TTL logic like 74 series would need the usual TTL value 1K pull-up/pull-down to be safe). Also, we've added a 10K pull-down here (10K is the usual value for pull-downs/pull-ups in CMOS), since we may want to un-enable the chip at some point, so we have a jumper solder to 5V as well. If bridged the IC will be disabled.

Test Points



Amplifier

