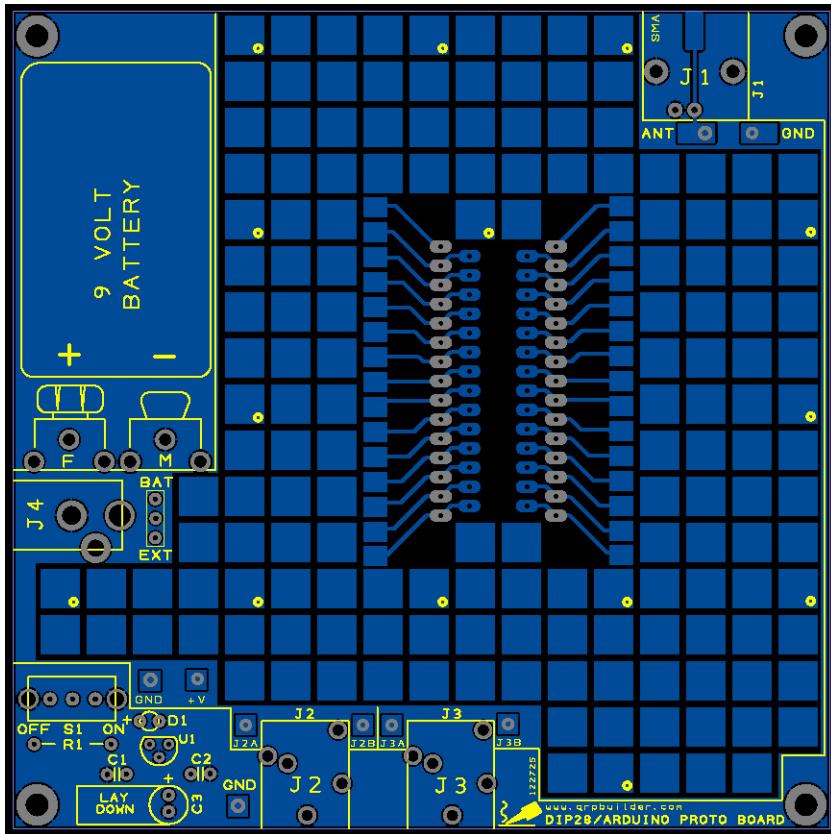




QRPBuilder DIP28/Arduino Nano Prototyping PCB Kit



DIFFICULTY LEVEL
EASY SMT
↑

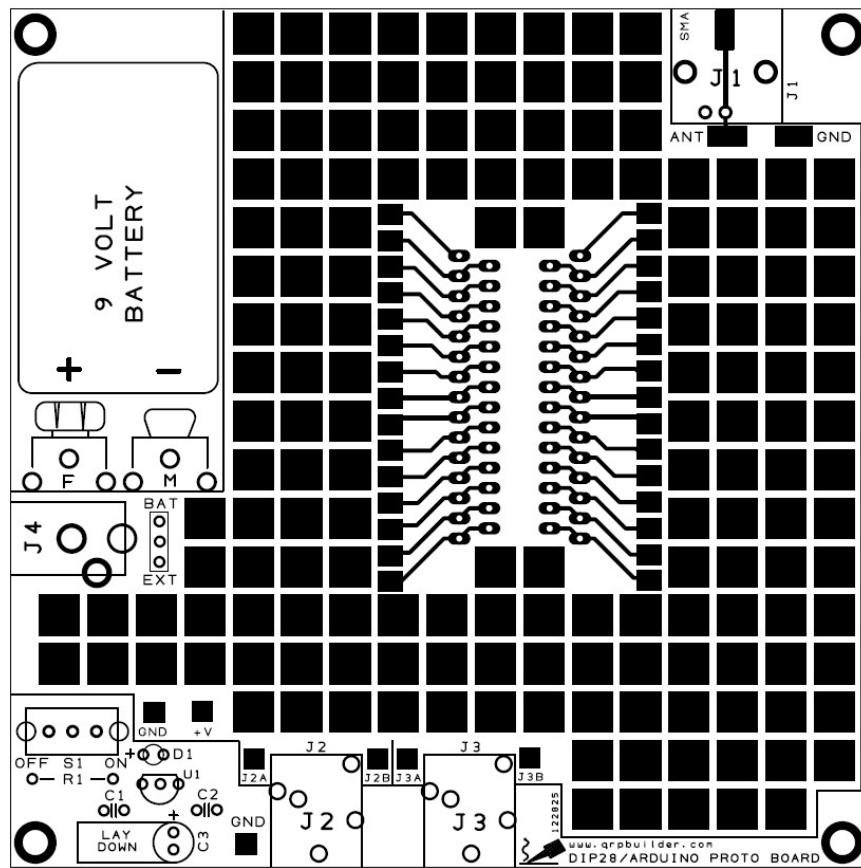
First, familiarize yourself with the parts and check for all the components. If a part is missing, please contact us at qrpbuilder@gmail.com and we will send you one.

Please read all the instructions before starting to assemble the kit.

Parts List

- 1 – DIP28/Arduino Prototype PCB
- 1 – U1, 78L05 voltage regulator
- 1 - R1, 4.7K resistor (yellow-violet-red-gold)
- 2 – C1,2, .1uF MLCC, marked 104
- 1 – C3, 100uF electrolytic
- 1 – D1, green led
- 2 – J2,3, 3.5mm stereo pcb jack
- 1 – J1, BNC horizontal female pcb connector
- 1 – 9V battery clip “+”
- 1 – 9v battery clip “-”
- 1 – J4, pcb power jack 2.1mm center pin
- 1 – 1x3 SIP strip
- 1 – Berg shunt (jumper)
- 1 – 28pin DIP socket
- 1 – 40 pin single row female header strip
- 4 – M3 x 25mm long female nylon hex spacer
- 4 – M3 x 20mm long male/female nylon hex spacer

Using the guide below, start assembling with the smallest parts first. All electrical components mount on the top of the board



- [] Install C1,2, .1uF MLCC capacitor, marked 104
- [] Install R1, 4.7K resistor (yellow-violet-red-gold)
- [] Install D1, green LED, *observe polarity, the long lead is “+”*
- [] Install 1x3 SIP strip
- [] Install U1, 78L05 voltage regulator, *match the outline on the pcb*
- [] Install 9V battery clip “+”
- [] Install 9V battery clip “-”
- [] Install J2,3, 3.5mm stereo jack
- [] Install J4, pcb power jack
- [] Place the Berg shunt (jumper) on the 1x3 SIP for the power source you want to use.
- [] Install J1, BNC horizontal female pcb connector

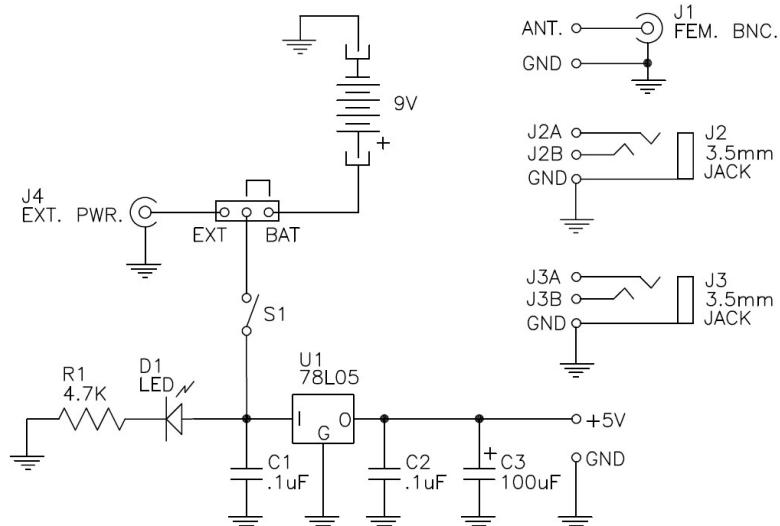
Decide how you want use the board. The 28pin socket can be soldered on either side. The two female header strips, spaced .60", can be soldered on either side as well. They can also be soldered together on the same side as the 28 pin DIP socket.

- [] Solder the 28 pin DIP socket.
- [] Snip the 40 pin female header strips to **15** pins each, and solder to the outside .60" spaced holes.
- [] Install the nylon hex spacers on each corner. *For Nano clearance use the 25mm long fem/fem hex spacers on the side that you have installed the female header strips.*

This completes the assembly

Remember, the two sides are interconnected at the 15 pads with the vias, allowing both sides to be used in a combined circuit if desired.

Schematic:



Notes: