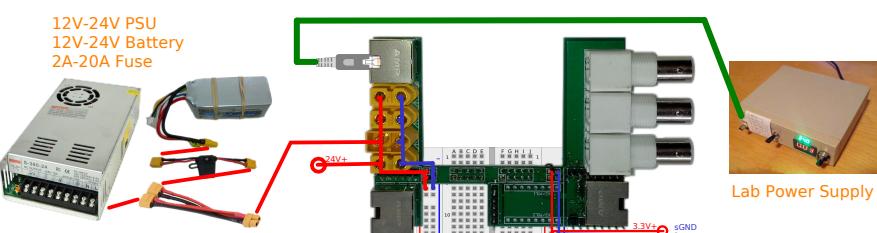


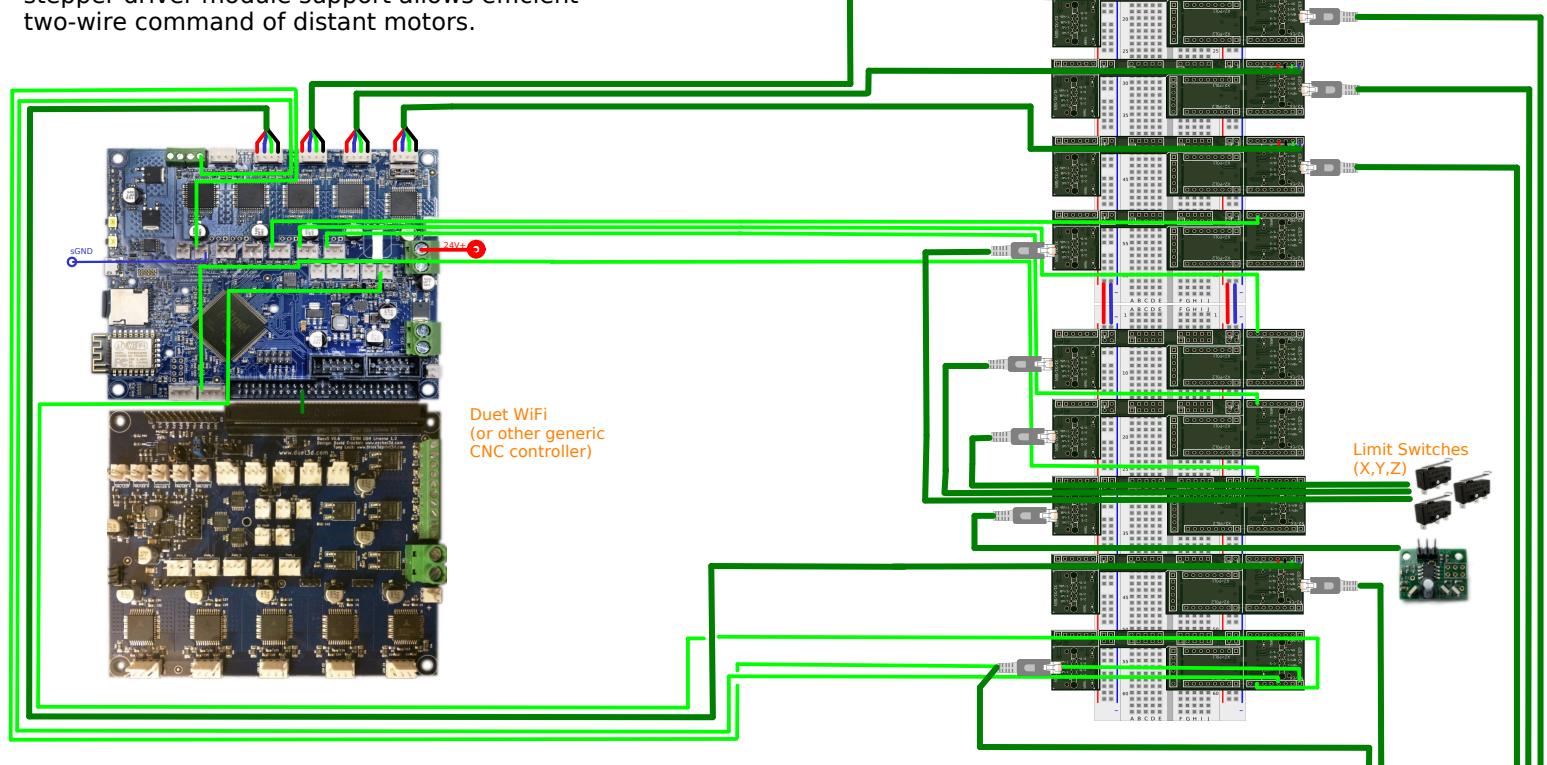
# CNC with PatchRap

PatchRap eases connection between control electronics and entire CNC machines, like multi-tool 3D printers.

Notably, only one wire is needed for each limit switch, probe, thermistor, or heater. Integrated stepper driver module support allows efficient two-wire command of distant motors.

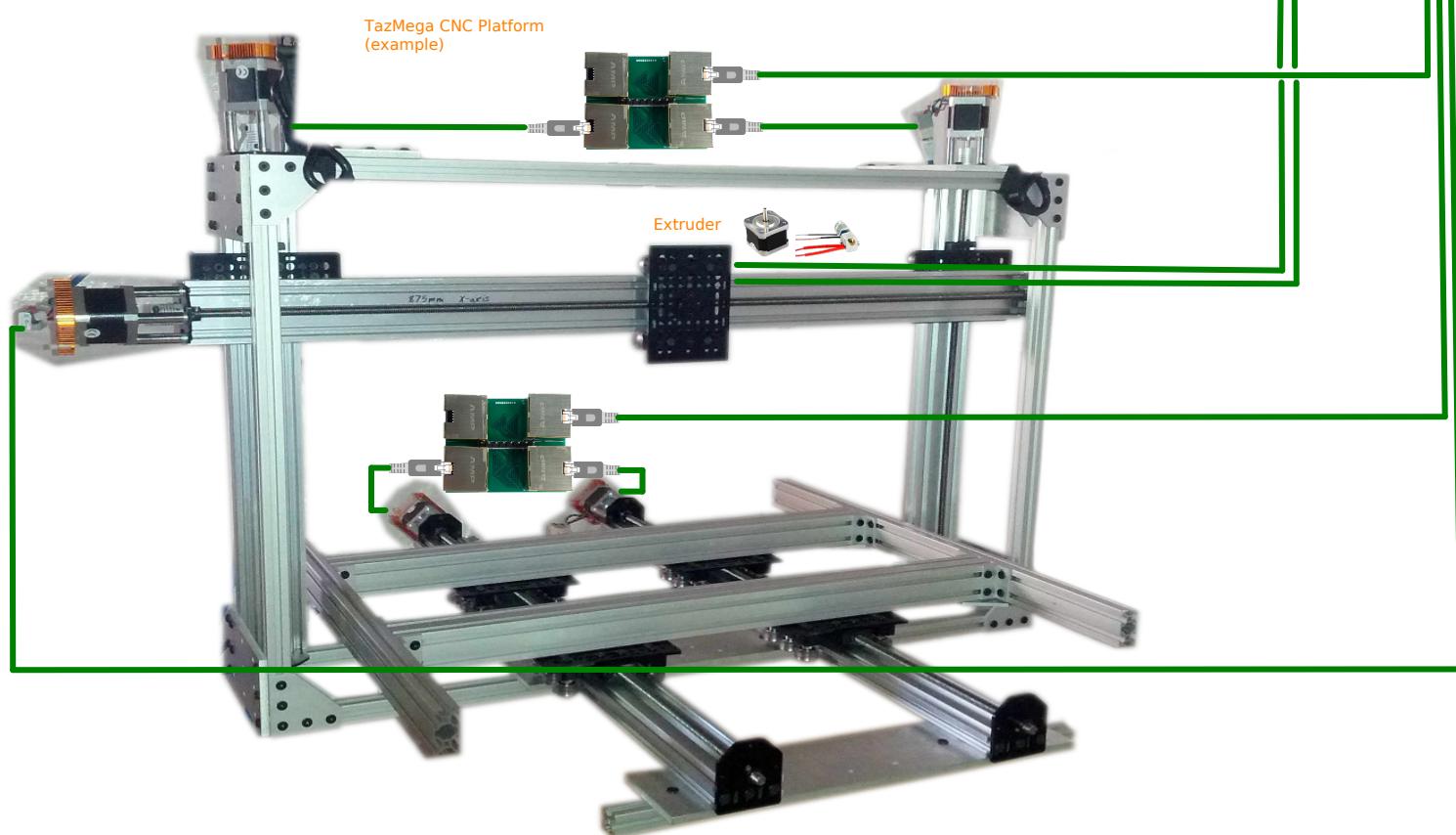


Lab Power Supply



Duet WiFi  
(or other generic  
CNC controller)

Limit Switches  
(X,Y,Z)



TazMega CNC Platform  
(example)

Extruder

# CNC with PatchRap

PatchRap generally uses Ethernet cable terminated by RJ45 connectors to carry power and signals from a central hub to peripherals, or between hubs. These cables bundle four pairs of two twisted wires, providing eight wires total, numbered and color coded by the widely accepted T568A standard. PatchRap assigns each of these wires to specific function. Following these conventions, devices may be connected through a circuit board, or any off-the-shelf RJ45 jack available at common hardware stores.

