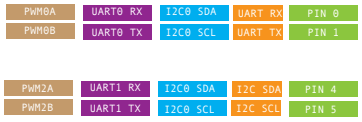
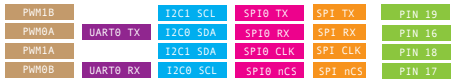
MBot Control Board Ports & Pinout

For DSM Receiver

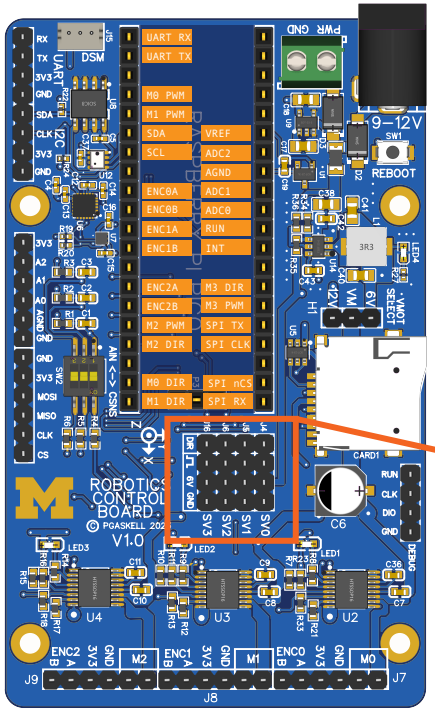
Power using either screw terminals or barrel jack 7.5V-12V



I2C0 also connected to FRAM, IMU & Baromoeter



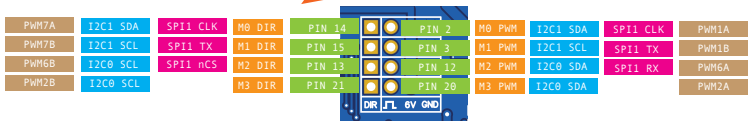
Select between current sense for M0-M2 and external Analog input.
The current sense gives 1V/A.
The ADC reads fullscale at 3.0V

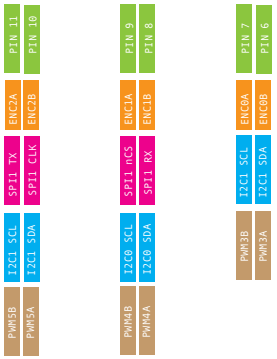


Reboot the Pico without unplugging USB.
To enter bootloader hold down both reboot and bootload and then release reboot.

Select Motor voltage 6.5V or VPOWER IN (12V)
Servo power is always 6.5V

SD Card connected to SPI0
nCS is multiplexed with M3 DIR





Motor/Encoder Ports match Pololu 25mmn gear motors with encoders

or MBot Encoder boards for Pololu 20mm gear motors