

Schematic: DvG Arduino Lock-in Amplifier

A) Useful pins of Adafruit M4 Feather microprocessor board

GND : ground

A0 : analog out , single ended , 0.0 to 3.3 V : ref_X

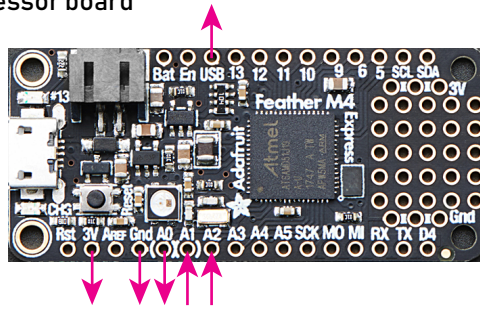
A1 : analog in , differential , -3.3 to 3.3 V : sig_I(+)

A2 : analog in , differential , -3.3 to 3.3 V : sig_I(-)

3V : regulated 3.3 V out, max. 500 mA

USB : 5.0 V out as powered by the USB

For testing connect A0 to A1 and connect GND to A2,
i.e. directly feed ref_X into sig_I.



B) Signal processing

