




Part number:

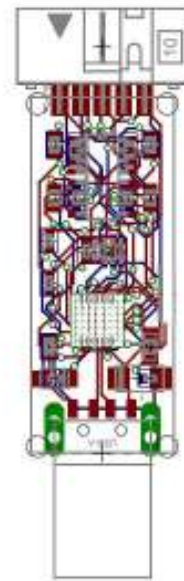
USD-211[®] 

The **USD-211** USB Stick Servo Controller was designed for small DC Gearhead Servo motors with diameters of 6-25mm and voltages up to 12V.

DC servo controller:	Single axis miniaturized controller for laboratory and industrial applications.
Control loops:	P-term, I-term, D-term
Parameters control:	Position, velocity, acceleration, torque.
Computer Interface:	Standard USB.
Resolution:	Down to 0.004 μ m depending on the encoder used.
Encoder:	Incremental ChA and ChB
Limit switches:	Software Configurable for different pin-outs and signal logic
Inputs and Outputs:	Digital and analog inputs and outputs for conversions and data acquisition.
Power requirements:	No external power needed.
Software:	Terminal. LabView Drivers and DEMO software.
Recommended actuator:	SuprMike[®], LDC-25, LDC-50
Dimensions:	2"x 0.75 x 0.4".



Photo (OEM version)



Layout

The pin-out is configurable to match **Maxon** and **Faulhaber** motors and actuators from **Thor Labs, OWIS, Opto Sigma** and other manufacturers.

Pin 1	Motor +
Pin 2	+5V to encoder
Pin 3	Encoder Ch. A
Pin 4	Encoder Ch. B
Pin 5	Ground.
Pin 6	Motor -
Pin 7	Reference switch (optional)
Pin 8	Positive limit switch (optional)
Pin 9	Negative limit switch (optional)
Pin 10	Ground.