

Part number:

DSP-21[®] 

The **DSP-21** controller is intended as a **RoHS** compliant replacement for the **SuprMotrV**.

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. Adjustable "on the fly".
Computer Interface:	Standard USB. Also analog control from DAQ card.
Resolution:	Down to 0.004µm depending on the encoder used.
Networkable:	Up to 8 boards can be controlled from one PC with one Power Supply
Inputs and Outputs:	Digital and analog inputs and outputs for conversions and data acquisition.
Power requirements:	Max. 24V DC at max. 2A .
Available options:	Joystick, Analog drive output, Digital display see next page.
Software:	Terminal. LabView Drivers and DEMO software.
Programming:	Intuitive 2 letter mnemonic. User defined MACRO commands included.
Recommended actuator:	SuprMike [®] , LDC-25, LDC-50 etc...
Dimensions:	OEM size 2"x 3".

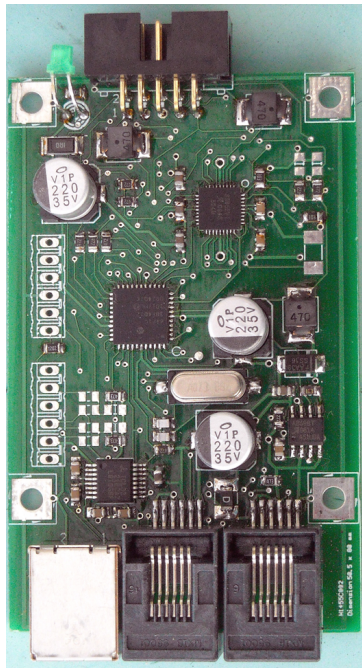
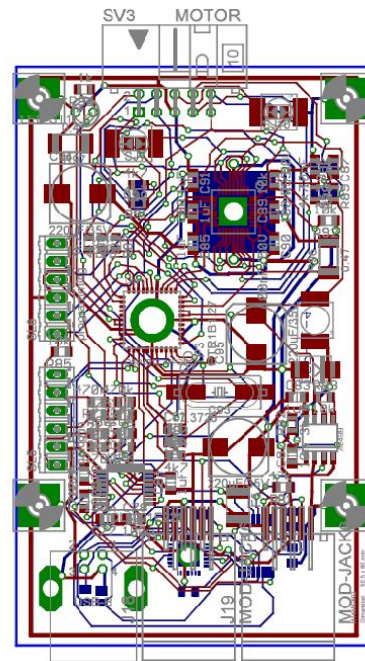


Photo (OEM version)



Layout

The pin-out is pin to pin compatible with **Maxon** and **Faulhaber** motors and listed below:

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.