Pacific Laser Equipment

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”.

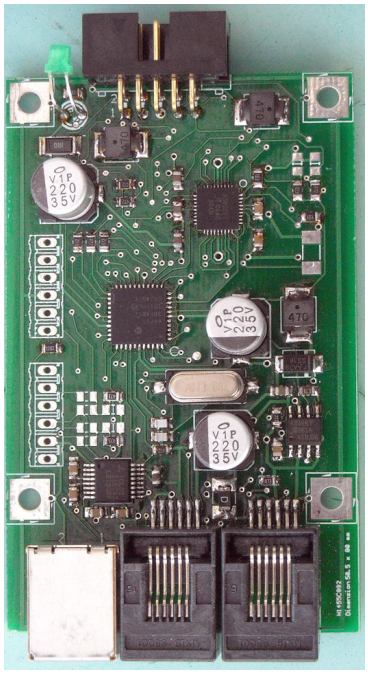
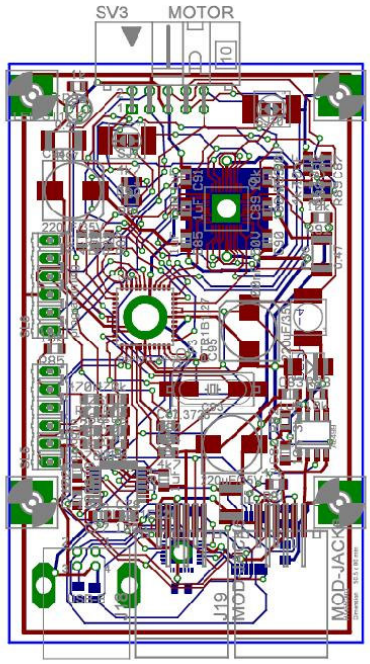


Photo (OEM version)



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.

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Using an external Digital Display console with Joystick, part number **DSP-21JS**, the user can command 2pcs **DSP-21**.

Only one power Supply is needed and no additional accessories or software are required.

The user can switch between PC control or Joystick + Digital Display control.

The position can be read directly in micrometers.

DSP-21JS + **DSP-21** + **SuprMike**

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