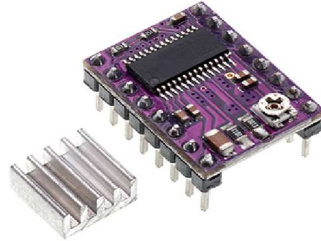


## **DRV8825 Stepper Motor Driver Module Reprap 3D Printer RAMPS CNC Router StepStick**



### **Description:**

The DRV8825 stepper motor driver carrier is a breakout board for TI's DRV8825 micro stepping bipolar stepper motor driver. The module has a pin out and interface that are nearly identical to those of our A4988 stepper motor driver board, so it can be used as a higher-performance drop-in replacement for those boards in many applications.

The DRV8825 features adjustable current limiting, overcurrent and over temperature protection, and six micro step resolutions (down to 1/32-step). It operates from 8.2 – 45 V and can deliver up to approximately 1.5 A per phase without a heat sink or forced air flow (rated for up to 2.2 A per coil with sufficient additional cooling).

### **Specifications:**

- 1- Simple step and direction control interface
- 2- Six different step resolutions: full-step, half-step, 1/4-step, 1/8-step, 1/16-step, and 1/32-step
- 3- Adjustable current control lets you set the maximum current output with a potentiometer, which lets you use voltages above your stepper motor's rated voltage to achieve higher step rates
- 4- 45 maximum supply voltage
- 5- Built-in regulator (no external logic voltage supply needed)
- 6- Can interface directly with 3.3 V and 5 V systems
- 7- Over-temperature thermal shutdown, over-current shutdown, and under-voltage lockout
- 8- Short-to-ground and shorted-load protection
- 9- 4-layer, 2 oz copper PCB for improved heat dissipation
- 10- Exposed solder able ground pad below the driver IC on the bottom of the PCB
- 11- Module size, pin out, and interface match those of our A4988 stepper motor driver carriers in most respects
- 12- Size: 1.5cmX2cm

### **Pin Out:**

