DRV8825 Stepper Motor Driver Module



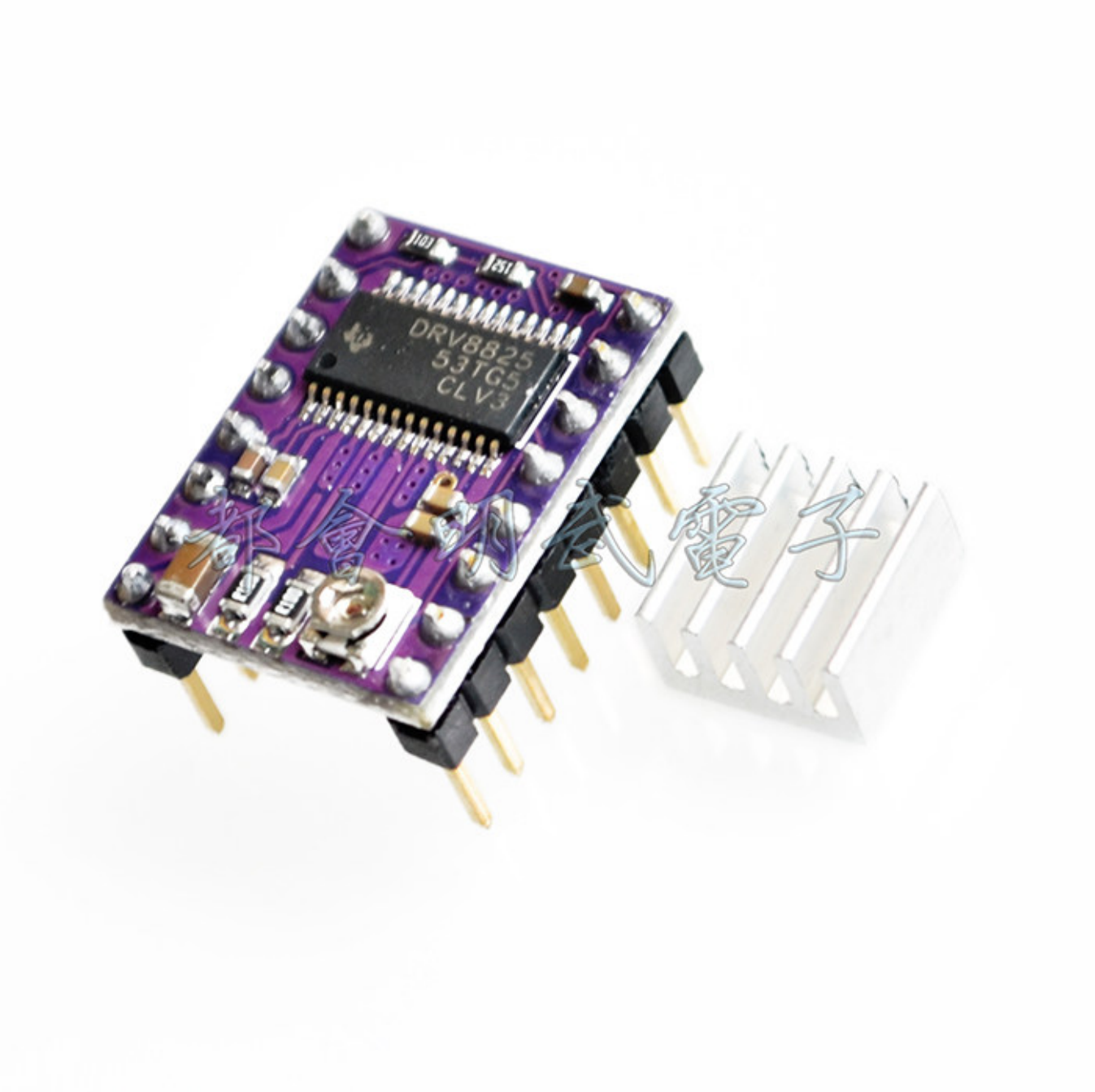
Produktkode: 389aa
Tilgjengelighet: Opp til 1 mnd leveringstid
Weight: 20.00g

Pris: kr. 25,00

Kort beskrivelse
DRV8825 Stepper Motor Drive Carrier+Silent Step Stick Protector for 3D Printer

Beskrivelse

Stepper Motor Driver Module DRV8825 for 3D Printer RepRap 4 RAMPS1.4 StepStick



Description:

The DRV8825 stepper motor driver carrier is a breakout board for TI’s DRV8825 microstepping bipolar stepper motor driver. The module has a pinout 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 overtemperature protection, and six microstep 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).

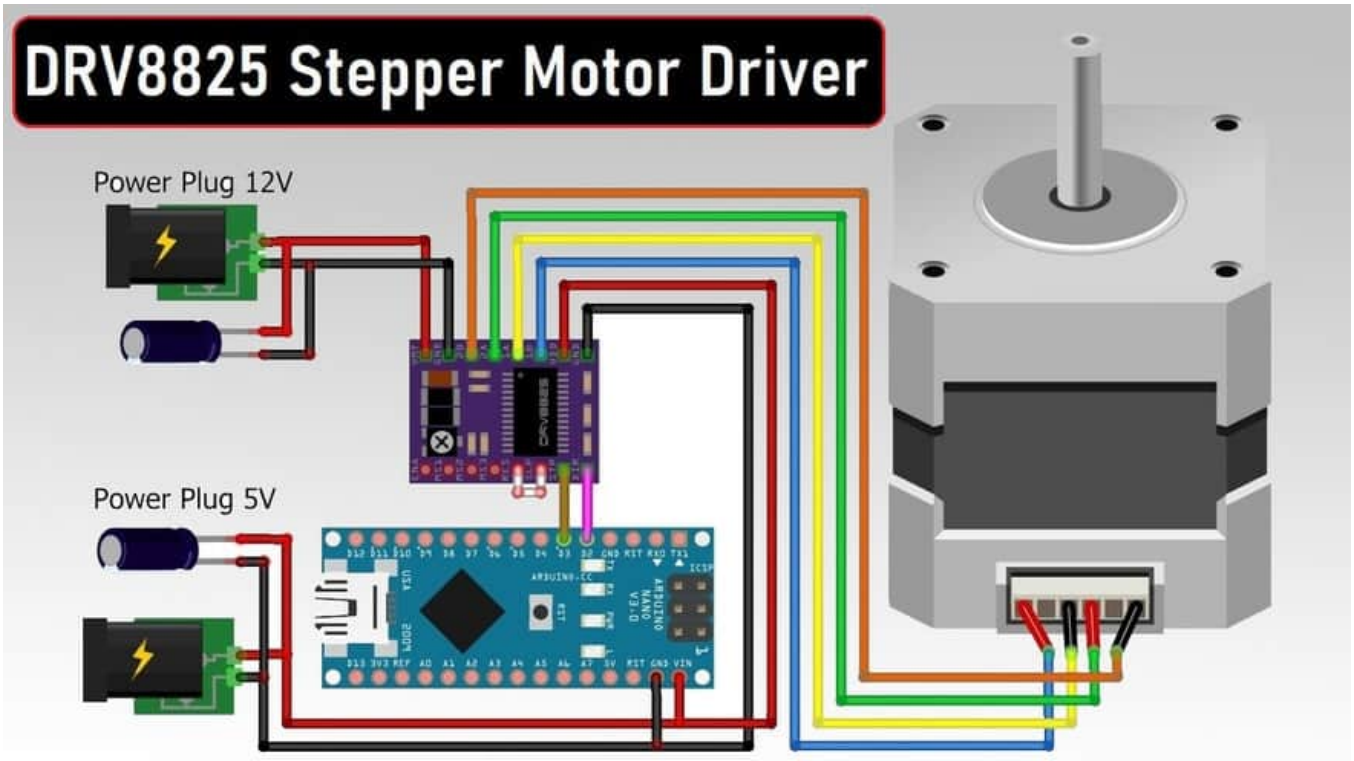
Features

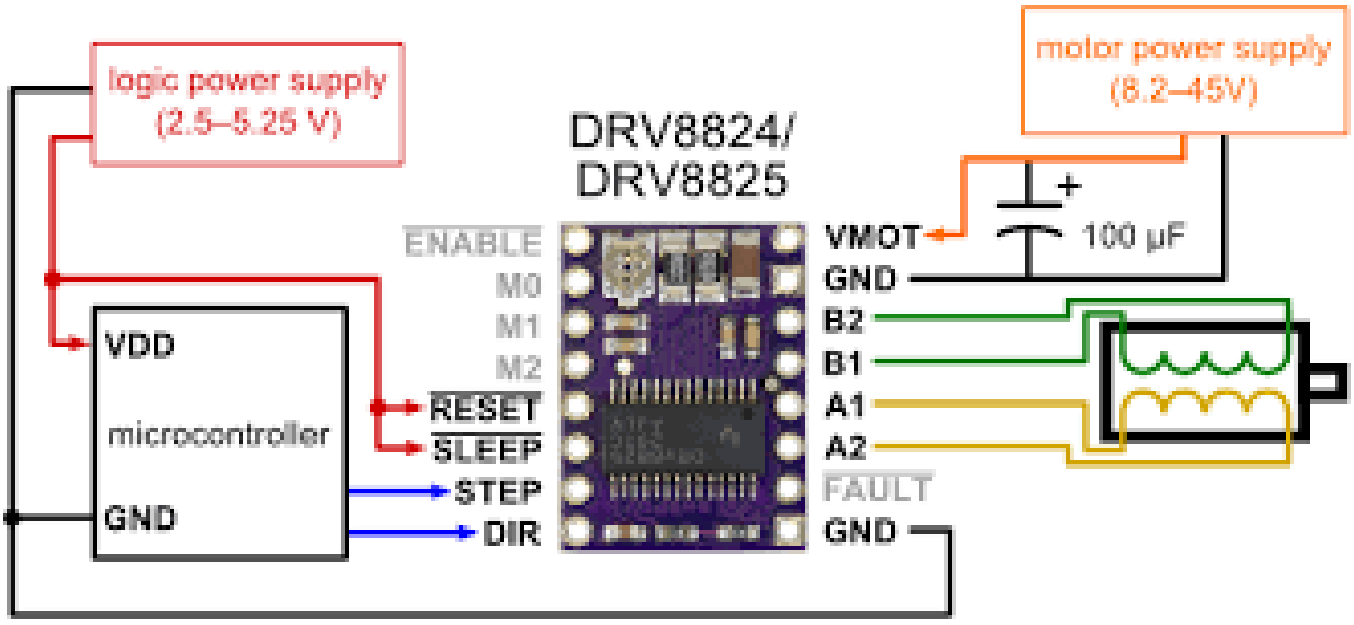
Simple step and direction control interface
Six different step resolutions: full-step, half-step, 1/4-step, 1/8-step, 1/16-step, and 1/32-step
Adjustable current control lets you set the maximum current output with a potentiometer, which lets you use voltages above your stepper motor's rated voltage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

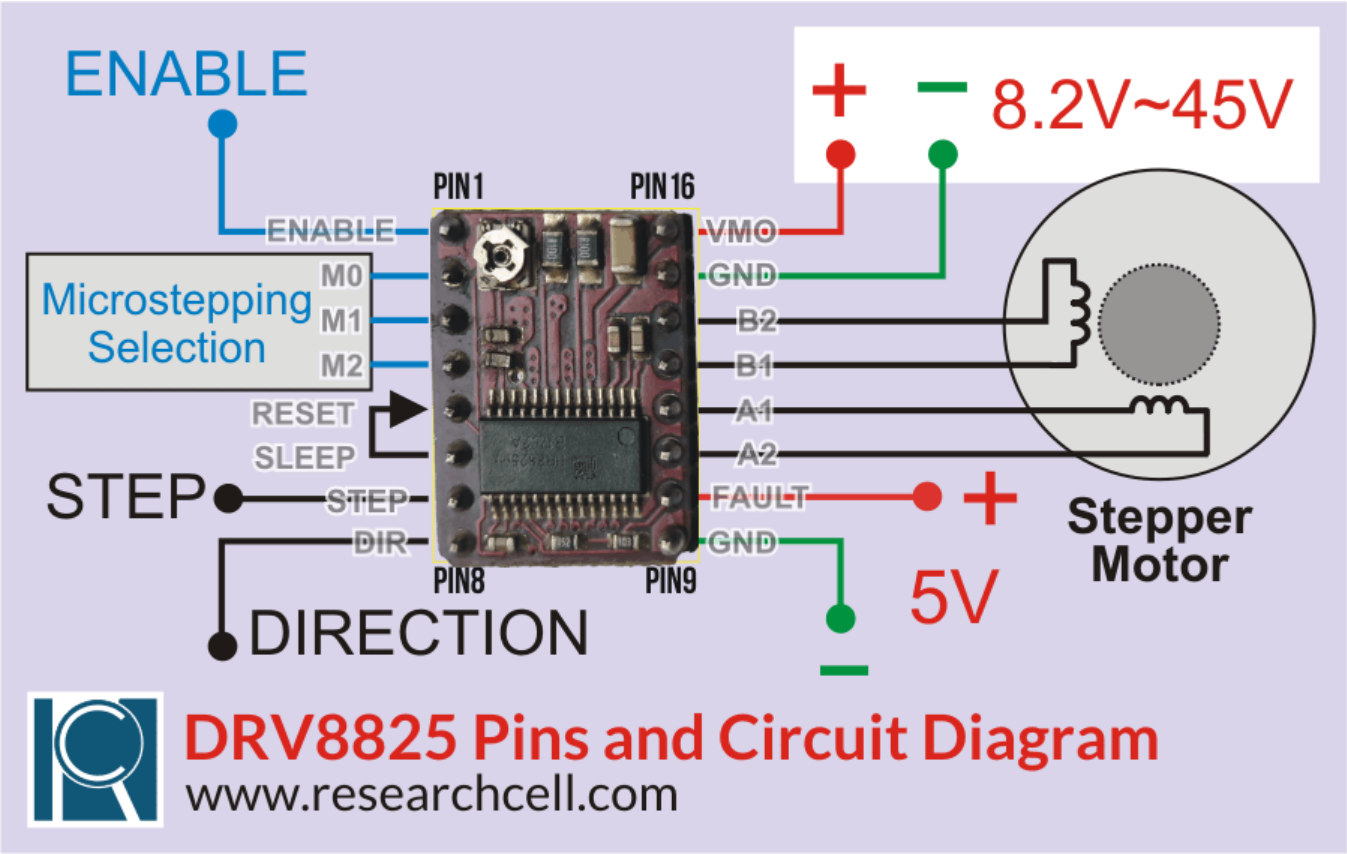
Package Included:

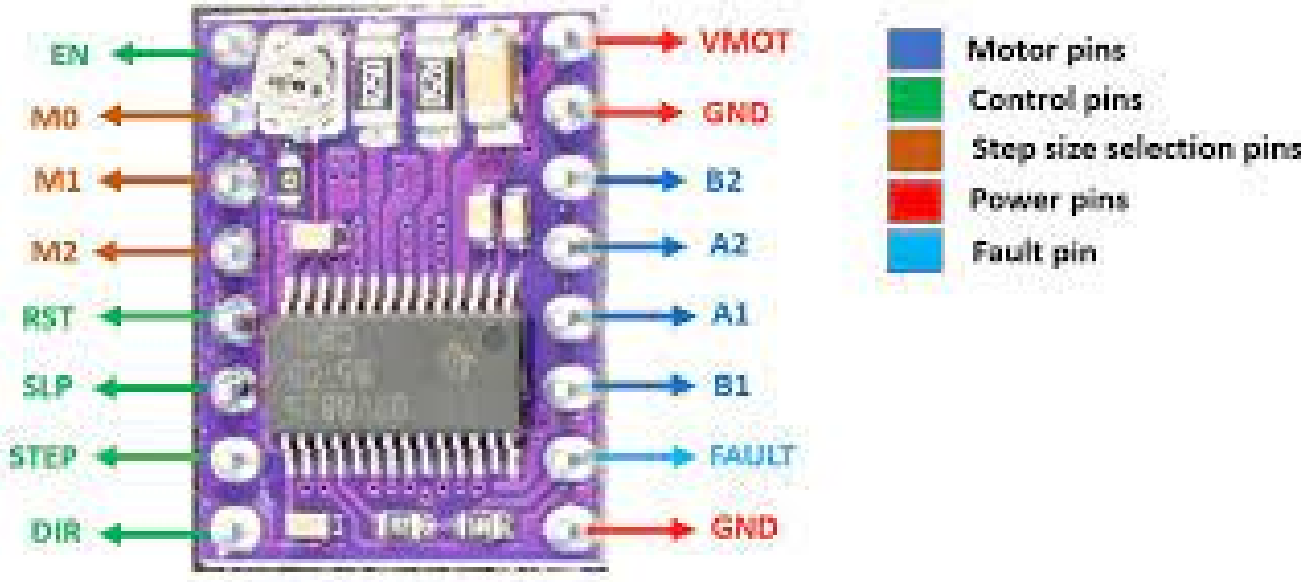
1 x Stepper Motor Driver Module DRV8825 for 3D Printer RepRap 4 RAMPS1.4 StepStick

Pinout


DRV8825 Stepper Motor Driver
Power Plug 12V
Power Plug 5V


logic power supply
(2.5–5.25 V)
motor power supply
(8.2–45V)
DRV8824/
DRV8825
ENABLE
M0
M1
M2
RESET
SLEEP
STEP
DIR
VMOT
GND
100 µF
B2
B1
A1
A2
FAULT
GND
VDD
microcontroller
GND





Produktgalleri



