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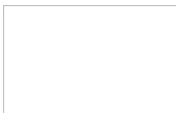
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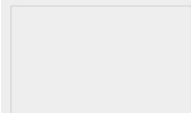
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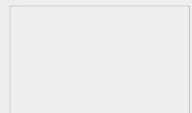
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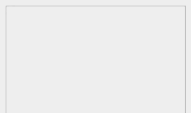
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Tamiya Du... GearBox



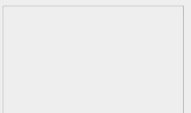
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ProtoBoard -... Sided



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Gravity: I2C EEPROM



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Cera... Pack-250 PCS



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INTRODUCTION

What is a stepper motor?

[Stepper motor](#) is a brushless DC electric motor that divides a full rotation into a number of equal steps. The motor's position can then be commanded to move and hold at one of these steps.

How to control a stepper motor?

The fast way to control a stepper motor is just using a [stepper motor driver](#) (controller). And TB6600 arduino is just what you need.

TB6600 arduino is an easy-to-use professional stepper motor driver, which could control a two-phase stepping motor. It is compatible with [Arduino](#) and other microcontrollers that can output a 5V digital pulse signal. TB6600 arduino stepper motor driver has a wide range power input, 9~42VDC power supply. And it is able to output 4A peak current, which is enough for the most of [stepper motors](#).

The stepper driver supports speed and direction control. You can set its micro step and output current with 6 DIP switch. There are 7 kinds of micro steps (1/2, 1/4, 1/8, 1/16, 1/32) and 8 kinds of current control (0.5A, 1A, 1.5A, 2A, 2.5A, 2.8A, 3.0A, 3.5A) in all. And all signal terminals adopt high-speed optocoupler isolation, enhancing its anti-high-frequency interference ability.

As a professional device, it is able to drive 57, 42-type two-phase, four-phase, hybrid stepper motor.

Note: this is a newest upgrade version of TB6600 stepper motor driver.

Downloaded from [Arrow.com](#)

DIY Alarm using Home Assistant, Konnected, and Sonoff RF Bridge



TB6600 5A Stepper motor driver and Arduino



Hardwares you needed:

[Bipolar Stepper Motor with Planet Gear Box](#)
[TB6600 Stepper Motor Driver](#)

FEATURES

- Support 8 kinds of current control
- Support 7 kinds of micro steps adjustable
- The interface adopts high-speed optocoupler isolation
- Automatic semi-flow to reduce heat
- Large area heat sink
- Anti-high-frequency interference ability
- Input anti-reverse protection
- Overheat, over current and short circuit protection

SPECIFICATION

- Input Current: 0~5A
- Output Current: 0.5-4.0A
- Control Signal: 3.3~24V
- Power (MAX): 160W
- Micro Step: 1, 2/A, 2/B, 4, 8, 16, 32
- Temperature: -10~45°C
- Humidity: No Condensation
- Dimension: 96*56*33 mm/ 3.78*2.2*1.3 inches
- Weight: 0.2 kg
- Drive IC: TB67S109AFTG

DOCUMENTS

- [WIKI \(TB6600 Stepper Motor Driver\)](#)

SHIPPING LIST

- TB6600 Stepper Motor Driver x1

REVIEW

FAQ

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n the discussion...

Paulina • 8 months ago • edited
Hello,

Do you know if this TB6600 controller works for a 6-wire stepper motor? If so, how should I connect the wires?

My stepper motor has these characteristics:
Bipolar, Unipolar Stepper Motor 1.8°, 0.83Nm, 7.4 V dc, 1 A, 6 Wires

I would really appreciate your help.

Thank you!
1 ^ • Reply • Share >
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DFRobot Support → Paulina • 8 months ago
Hi there,
I think there is no problem,
Would you mind sending a photo for further confirmation?
^ • Reply • Share >
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Paulina → DFRobot Support • 8 months ago
Hello!
Thanks a lot for your reply. This is a photo of my stepper motor that I want to connect to an Arduino UNO



see more

^ • Reply • Share >
↓



DFRobot Support Mod → Paulina • 8 months ago

I don't know the specific structure of the motor that you use, you can refer to the relevant characteristics of the motor in the wiki we give.

^ • Reply • Share >
↓



Judah Densmore • 2 months ago

How many motors can this drive at once?

^ • Reply • Share >
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Patrick Xu • 3 months ago

Is it possible to receive the schematics of this driver? I am having an issue with the common-cathode configuration, where the signal lines (Pul-, dir-) are reading 0.8V when driving them LOW. This occurs when the PUL +, Dir + are pulled up to 5V, suggesting there's some interaction between the 2 signals. This is causing motor binding/stuttering issues for me.

^ • Reply • Share >
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Dame Goode • 5 months ago

Does any one know what the red and green led's on the TB6600 represent ?????

^ • Reply • Share >
↓



DFRobot Support Mod → Dame Goode • 3 months ago

Hi, could you please mark the position of the red and green led in the photo.

^ • Reply • Share >
↓



Youssef Samir • a year ago

Hello,
How can I measure the Pulses per second of that driver?

^ • Reply • Share >
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DFRobot Support Mod → Youssef Samir • a year ago

The pulse frequency of the driver is determined by the MCU. So what do you mean by pulses?

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Triet Dao • 2 years ago

what is 2/A and 2/B microstep? what is the differences?

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DFRobot Support Mod → Triet Dao • 2 years ago

The resolution are the same, but A represents A channel and B represents B channel.

1 ^ • Reply • Share >
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Chandrashekar Adake • 2 years ago

I am using TB6600 as stepper motor driver for controlling NEMA 17 stepper motor. There are two LEDs (red and Green) on the board. In my case, red LED is always on. In most of the videos I watched about this driver in youtube, green led is on. I am not understanding this difference. Please help.

^

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Reply

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DFRobot Support

Mod

→ Chandrashekar Adake • 2 years ago

Our supplier says the LEDs on this stepper motor driver has one in green, another in blue. The green LED indicates power, and the blue LED indicates there is signal and the driver is working. I don't know why you have the one with red LED. Where did you get this product and could you take a picture?

^

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Tae ho Jang

• 3 years ago

Hello,

Can i use it for control a stepping motor having 3.9 input voltage?

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DFRobot Support

Mod

→ Tae ho Jang • 3 years ago

Do you mean that the working voltage of your stepping motor is 3.9V? To drive a stepping motor, it normally depends on the starting current which should be much larger than the working current, the voltage is good, but if you mean the input voltage for the motor driver, it should be 9-42V

^

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ledsandchips

• 8 months ago

Hi, this driver uses the genuine Toshiba chip TB67S109AFTG, or it's a Chinese clone?

Thanks!

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Mod

→ ledsandchips • 8 months ago

Hi, we will consult our product manage and need you wait for some days.

^

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ledsandchips

→ DFRobot Support • 7 months ago

Hi, this driver uses the genuine Toshiba chip TB67S109AFTG, or it's a Chinese clone?

Thanks!

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Mod

→ ledsandchips • 7 months ago

Hi, it's the genuine Toshiba chip TB67S109AFTG.

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ledsandchips

→ DFRobot Support • 7 months ago

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