

SDTB6600 Datasheet

Stepper driver 3.5A / 1/32 microsteps / 9-42V



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PRODUCT OVERVIEW

Simple but powerful 3.5A external stepper driver based on the TB6600 chip. Can be connected to 5V electronics and accept 9-42V DC power. This stepper driver can be easily adjusted to different microsteps and current using 6 dip-switches.

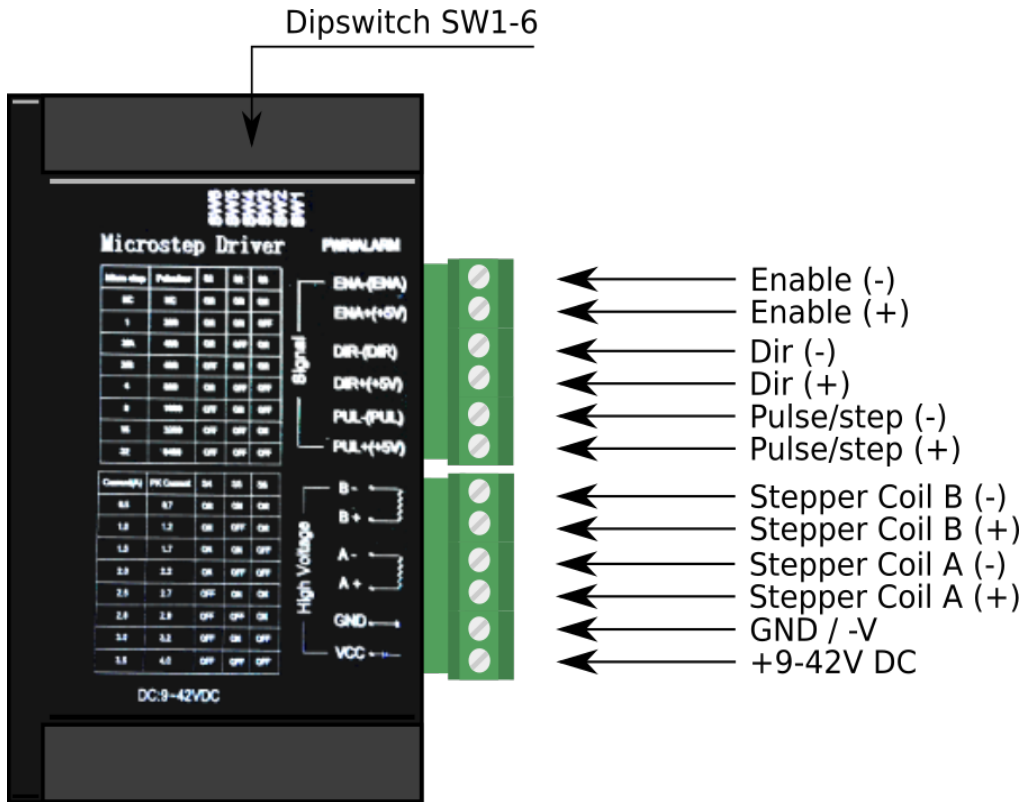
DOCUMENT HISTORY

Version 1.0	Creation
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TECHNICAL SPECIFICATION

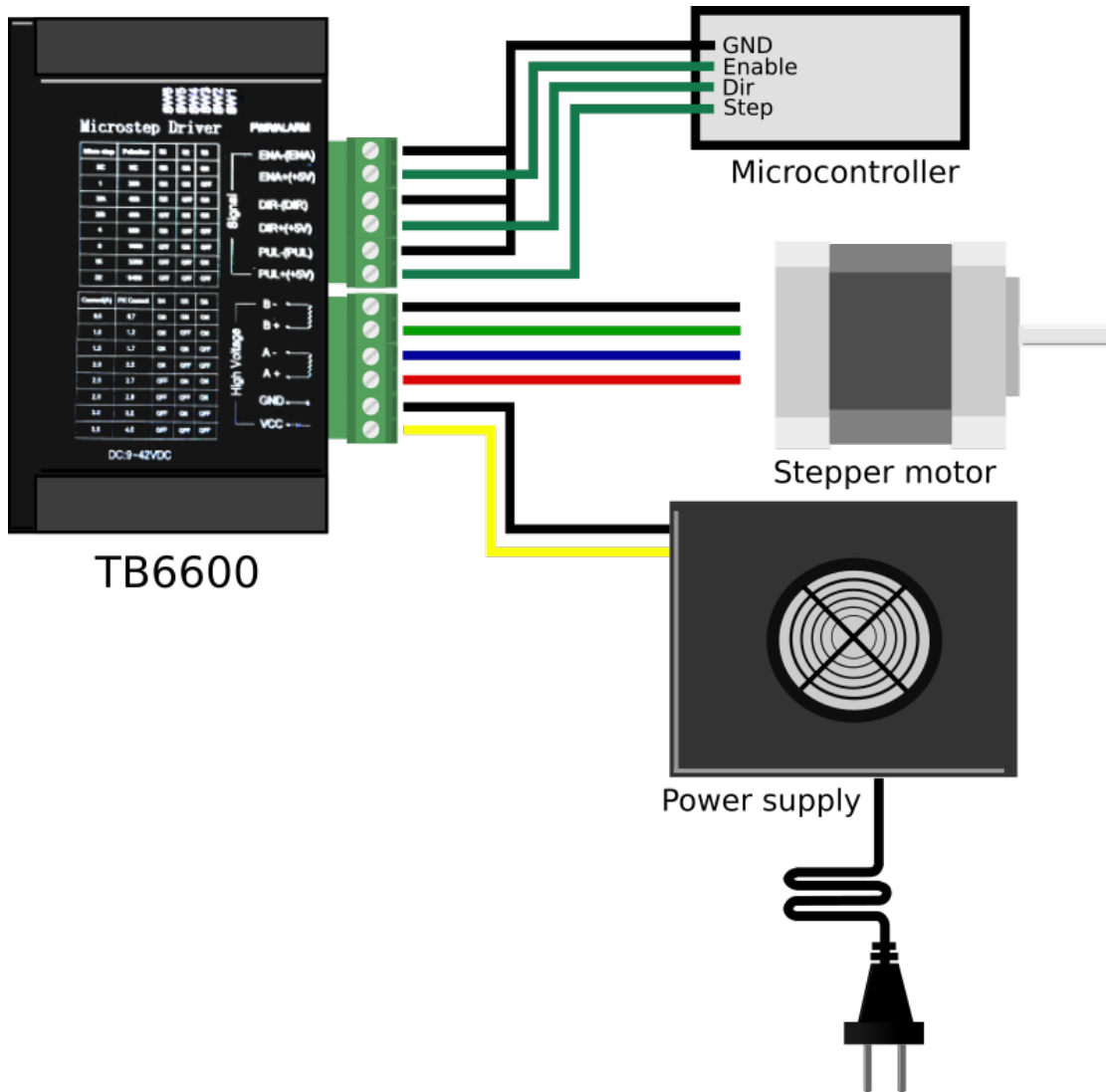
Chip	TB6600
Operating Voltage Electronics	5V
Operating Voltage High	9-24V
Max current	3.5A
Current adjustable	Yes

CONNECTORS



BASIC WIRING

The following diagram shows how to connect the stepper driver within your application. Review the documentation of the electronics for details on the three signal lines. Note that the voltage applied from the microprocessor should be 5V. You can connect a 9 to 42V DC power source to VCC/GND.



DIPSWITCH SETTINGS

You can set the current and microsteps using the dipswitches SW1-SW6 on the side. Refer to the following tables for details.

Microsteps

Micro steps	Pulse/rev	SW1	SW2	SW3
-	-	ON	ON	ON
1	20	ON	ON	OFF
2/A	400	ON	OFF	ON
2/B	400	OFF	ON	ON
4	800	ON	OFF	OFF
8	1600	OFF	ON	OFF
16	3200	OFF	OFF	ON
32	6400	OFF	OFF	OFF

Current setting

Current (A)	Peak current	SW4	SW5	SW6
0.5	0.7	ON	ON	ON
1.0	1.2	ON	OFF	ON
1.5	1.7	ON	ON	OFF
2.0	2.2	ON	OFF	OFF
2.5	2.7	OFF	ON	ON
2.8	2.9	OFF	OFF	ON
3.0	3.2	OFF	ON	OFF
3.5	4.0	OFF	OFF	OFF