BIPOLAR MICROSTEPPING MOTOR DRIVER SMC001

The SMC 001 is a simple 20pin DIP device, made to operate bipolar stepper motor in full, half, quarter and eighth step modes, with 33V, 2.5A ratings. This device does not need any external components. For every pulse on step input, the motor will move one step.
The direction of the move is determined by the DIR bit, the microstep is determined by the 2-bit MS inputs. There's no need for phase-sequence tables, high-frequency control lines or complex interfaces to the program.
The highly efficient driver dissipates very small amount of power, it does not need heat sinks, yet it runs cool, and the motor runs cool too. The highly efficient electronics, small footprint and the absence of heatsink, makes this driver ideal for miniature mechanisms, battery operated applications, etc.

- Needs only step and direction signals to move motor
- No external components needed
- Low power dissipation, no need for heatsinks
- Full, Half, Quarter and Eighth-step modes
- Auto current decay mode
- Current and thermal protection
- 33V, +/- 2.5 A output rating
- 3.0 – 5.5V logic voltage range
- 20 pin 600mil spacing DIP package

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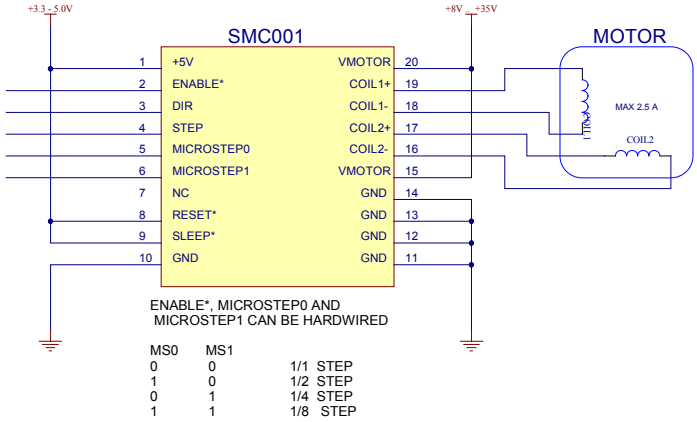
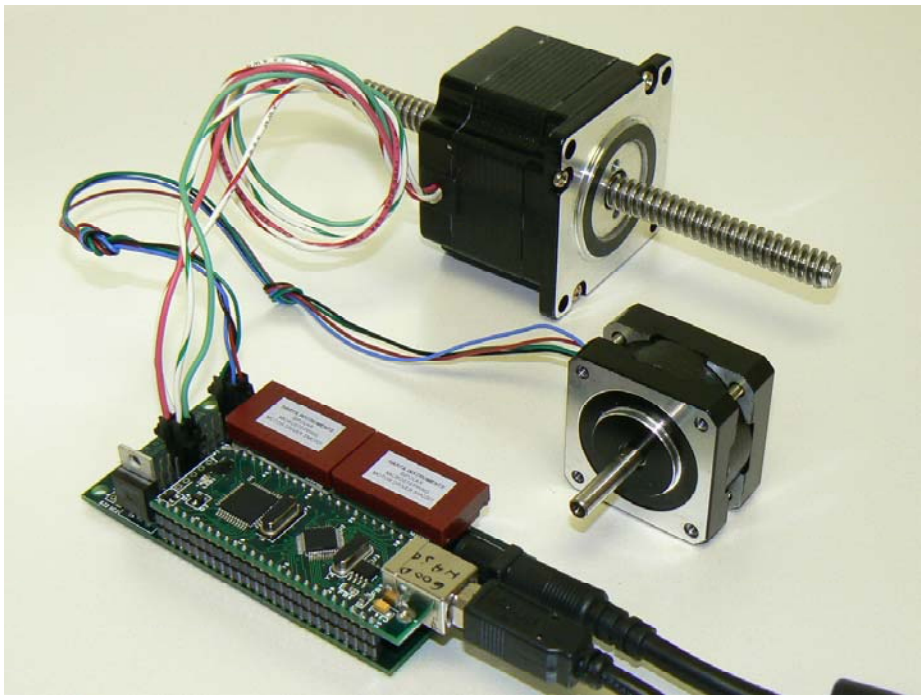
connection diagram



2 MOTOR DEMO KIT



Includes:

- 2 SMC001 Drivers (red boxes)
- 1 mother board
- 1 USB interface
- 12V power supply

This is the simplest demo kit in the market. Just plug in the motors, USB, and the power supply, and it is ready to go. User interface is Hyperterminal (comes standard with Windows OS).

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