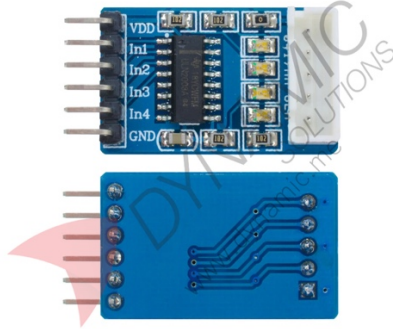


ULN2003 Stepper Motor Driver Board

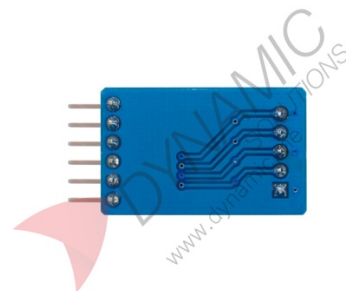
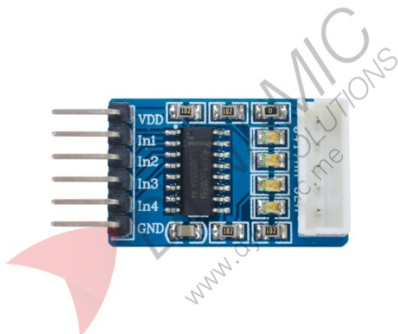


Features:

The ULN2003 Stepper Motor Driver Board is built on the ULN2003A, a high-voltage high-current Darlington transistor array of seven NPN pairs with common cathode clamping diodes for switching inductive loads. Each channel sinks up to 500mA and withstands up to 50V, each input carries a 2.7 kilohm base resistor for TTL and CMOS compatibility, and built-in flyback diodes protect against inductive loads so a stepper winding can be switched directly. The seven open-collector outputs drive a four-phase unipolar stepper through an XH-5P socket, with phase LEDs showing which outputs are active. The board suits the 28BYJ-48 four-phase five-wire motor, step angle 5.625 degrees / 64 with a 1/64 gear reduction.

Specifications		
Driver IC	ULN2003A	-
Board Operating Voltage	5 to 12	V
Number of Channels	7	-
Phases Supported	4	-
Channel Sink Current	500 max	mA
Channel Withstand Voltage	50 max	V
Input Base Resistor	2.7	kilohm
Output Type	Open-collector Darlington with flyback diodes	-
IC Package Types	DIP-16, SOIC-16	-
Motor Connection	XH-5P socket	-
Compatible Motor	28BYJ-48	-
Motor Phase	4-phase, 5-wire	-
Motor Step Angle	5.625 / 64	degrees
Motor Reduction Ratio	Jan-64	-
Board Dimensions	34 x 18 x 10	mm
Board Weight	4	g
Usage	Robot arms, CNC positioning and motion control, 3D printer axis movement, model building, and automatic door systems	-

Product Pictures:



Wiring:

