

U1 Stepper Motor HAT

VIN 1

5V 2

GND 3

A1 4

A2 5

B1 6

B2 7

A3 8

A4 9

B3 10

B4 11

VCC +5V

GND

U2 Horizontal SM

1B

1A

2A

2B

U3 Vertical SM

1B

1A

2A

2B

The diagram illustrates the connection between an Arduino Mega 2560 (U4) and a NeoPixel LED strip (U5). The Arduino's power pins (5V, GND, VIN) are connected to the NeoPixel's power pins (VCC, GND). The Arduino's digital pin 6 is connected to the NeoPixel's data pin (DIN). The diagram also shows the internal components of the Arduino, including the ATmega2560 microcontroller, the ATmega16U2 USB-to-UART bridge, and the ATmega48U2 USB-to-UART bridge. The ATmega16U2 is connected to the Arduino's TX0 and RX0 pins, and the ATmega48U2 is connected to the Arduino's TX3 and RX3 pins. The ATmega48U2 is also connected to the Arduino's SDA and SCL pins. The diagram is a detailed schematic showing the electrical connections between the two components.

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