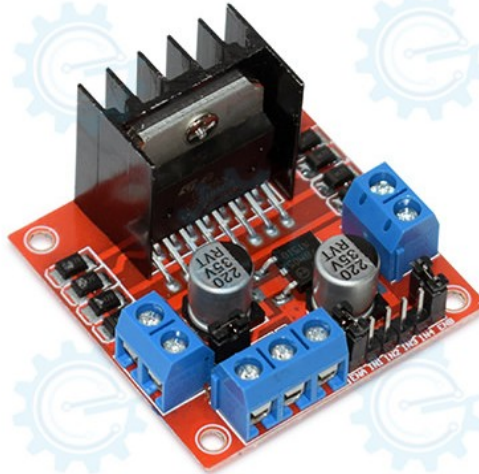


L298N Double H-Bridge DC Motor Driver

Technical Manual Rev 1r0



L298N IC Double H-Bridge DC Motor Driver as the main driver chip, with strong driving ability, low heat, anti-interference ability.

Specifications:

Input supply voltage: 7V to 12VDC

Logic voltage: 5V, 0A ~ 0.36A

Master Chip: L298N IC

Operating Mode: H-Bridge Drive (Dual)

Drive current: 2A (max) single bridge

Maximum Power: 25W

PCB Dimensions: 43mm x 43mm

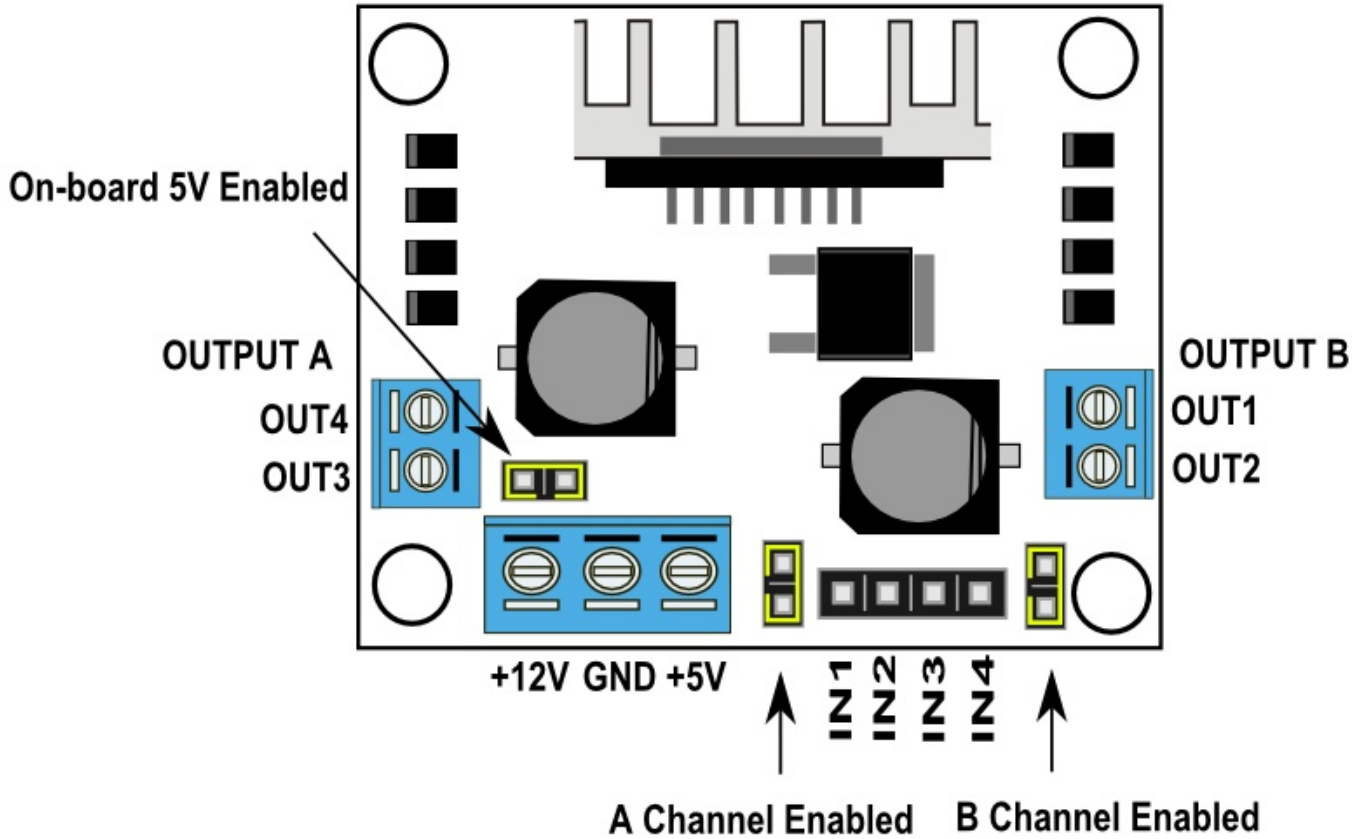
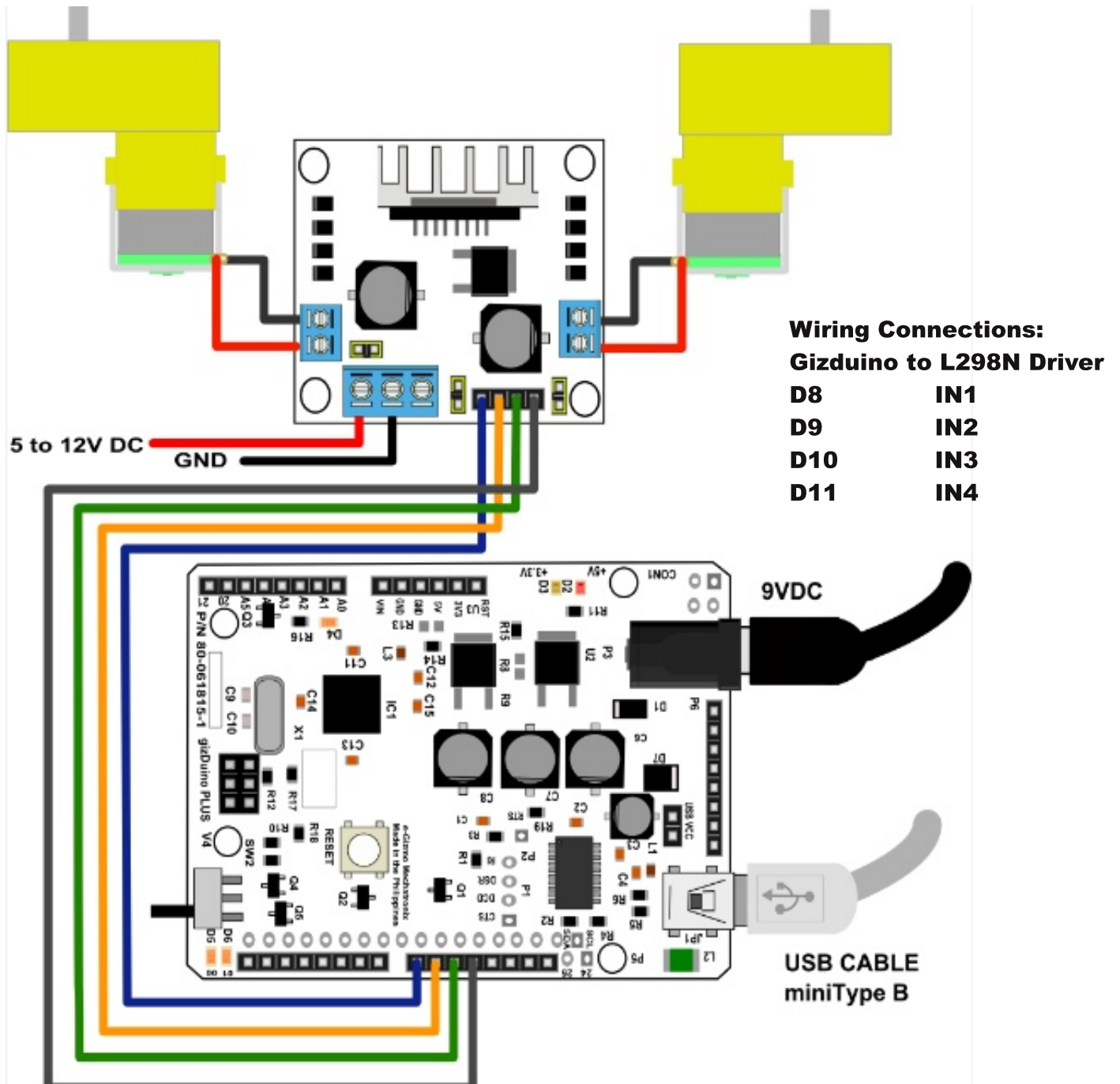


Figure 1: L298N Dual H-Bridge DC Motor Driver



```

/*
e-Gizmo L298N Dual H-Bridge
DC Stepper Motor Driver
Sample Codes

by
e-Gizmo Mechatronics Central
September 17, 2017
http://www.e-gizmo.com

*/
#define MOTOR_A_DIR 8
#define MOTOR_A_RUN 9
#define MOTOR_B_RUN 10
#define MOTOR_B_DIR 11

// the setup routine runs once when you press reset:
void setup() {
  pinMode(MOTOR_A_DIR, OUTPUT);
  pinMode(MOTOR_A_RUN, OUTPUT);
  pinMode(MOTOR_B_RUN, OUTPUT);
  pinMode(MOTOR_B_DIR, OUTPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  //Move Forward
  digitalWrite(MOTOR_A_DIR, HIGH);
  analogWrite(MOTOR_A_RUN, 180);
  analogWrite(MOTOR_B_RUN, 180);
  digitalWrite(MOTOR_B_DIR, HIGH);
  delay(1000);//delay ms

  //Move Backward
  digitalWrite(MOTOR_A_DIR, LOW);
  analogWrite(MOTOR_A_RUN, 180);
  analogWrite(MOTOR_B_RUN, 180);
  digitalWrite(MOTOR_B_DIR, LOW);
  delay(1000);//delay ms

  // Turn right
  digitalWrite(MOTOR_A_DIR, HIGH);
  analogWrite(MOTOR_A_RUN, 180);
  analogWrite(MOTOR_B_RUN, 180);
  digitalWrite(MOTOR_B_DIR, LOW);
  delay(1000);//delay ms

  //Turn left
  digitalWrite(MOTOR_A_DIR, LOW);
  analogWrite(MOTOR_A_RUN, 180);
  analogWrite(MOTOR_B_RUN, 180);
  digitalWrite(MOTOR_B_DIR, HIGH);
  delay(1000);//delay ms

  //Stop
  digitalWrite(MOTOR_A_DIR, LOW);
  analogWrite(MOTOR_A_RUN, 0);
  analogWrite(MOTOR_B_RUN, 0);
  digitalWrite(MOTOR_B_DIR, LOW);
  delay(1000);//delay ms
}

```