

DC Power

Crystal Oscillator

USB

RESET

ATmega16U2

In Circuit Serial Programming (ICSP) Header for USB

I2C/SCL Serial Clock

I2C/SDA Serial Data

Analog Reference Voltage

6 Ground

13 Digital Pin13

12 Digital Pin12

11 Digital Pin11 PWM

10 Digital Pin10 PWM

9 Digital Pin9 PWM

8 Digital Pin8

7 Digital Pin7

6 Digital Pin6 PWM

5 Digital Pin5 PWM

4 Digital Pin4

3 Digital Pin3 PWM Interrupt 1

2 Digital Pin2 Interrupt 2

1 Digital Pin1 Serial Port TX

0 Digital Pin0 Serial Port RX

TX LED

RX LED

Builtin LED

Power

NC*

5V

Reset Input

3.3V

5V

Ground

Ground

Vin 7-12 V

IOREF

RESET

3.3V

5V

GND

GND

Vin

POWER

A0

A1

A2

A3

A4

A5

ANALOG IN

I2C/SDA

I2C/SCL

Analog Pin0 A0

Analog Pin1 A1

Analog Pin2 A2

Analog Pin3 A3

Analog Pin4 A4

Analog Pin5 A5

AREF

GND

13

12

11

10

9

8

7

6

5

4

3

2

1

0

DIGITAL (PWM ~)

TX-1

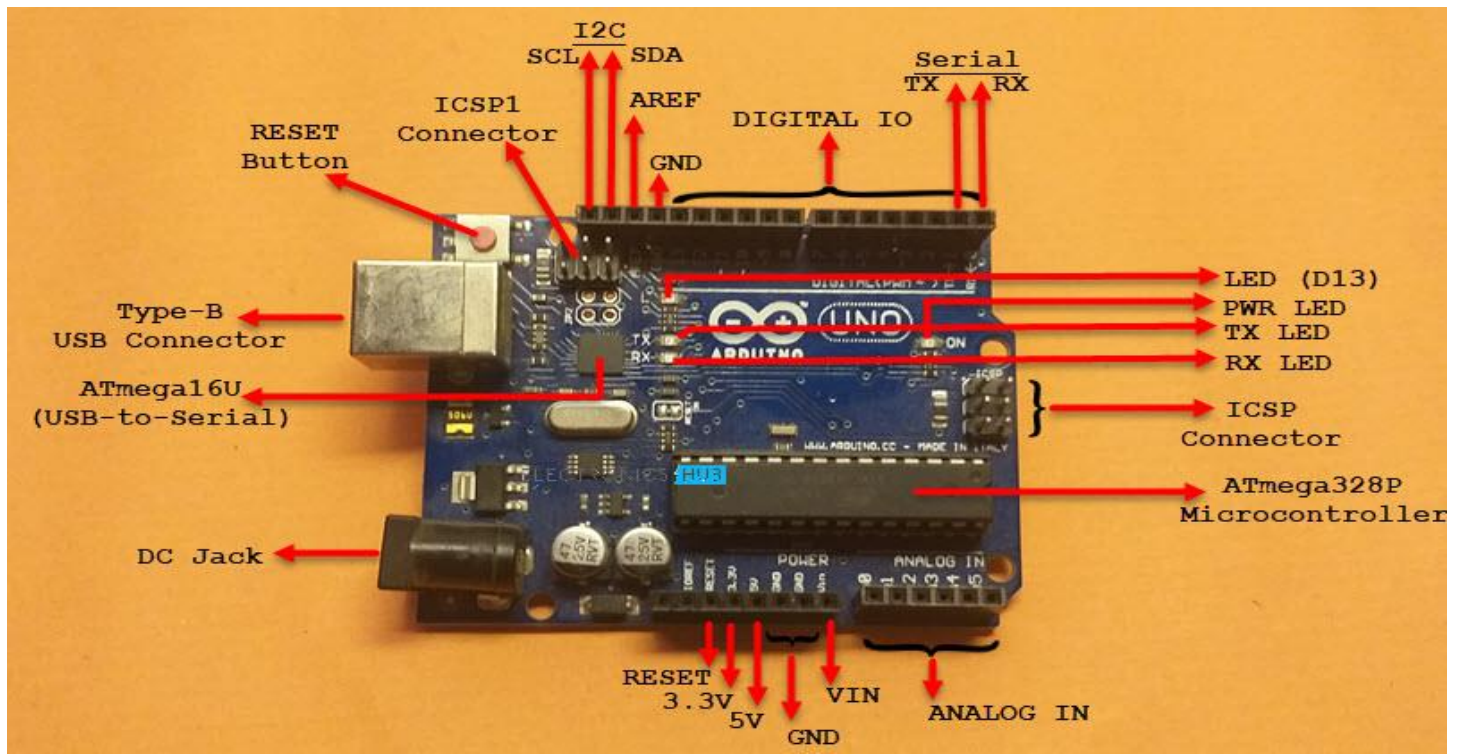
RX-0

ARDUINO UNO

ATmega328P

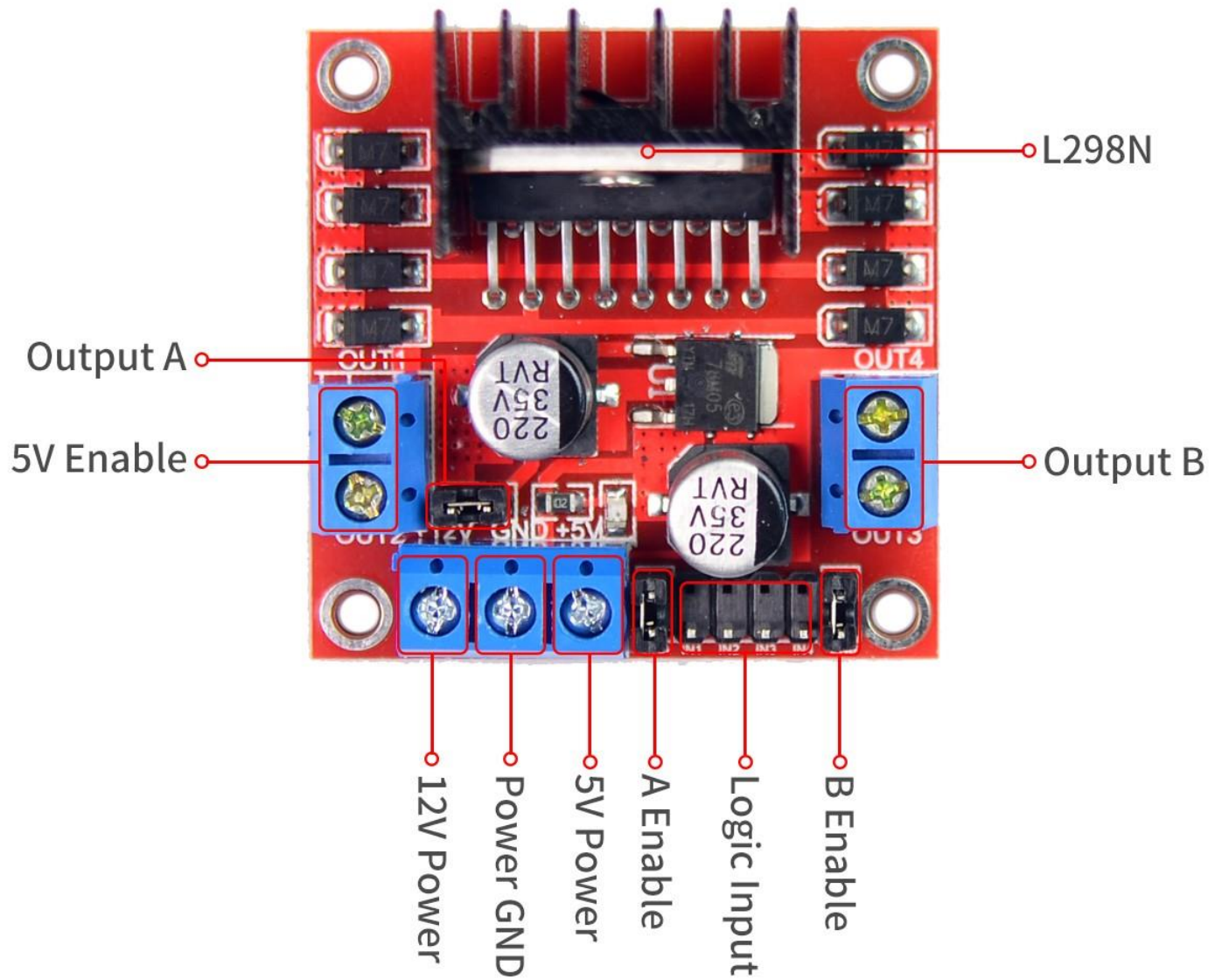
IN CIRCUIT SERIAL PROGRAMMING (ICSP) HEADER FOR ATmega328P

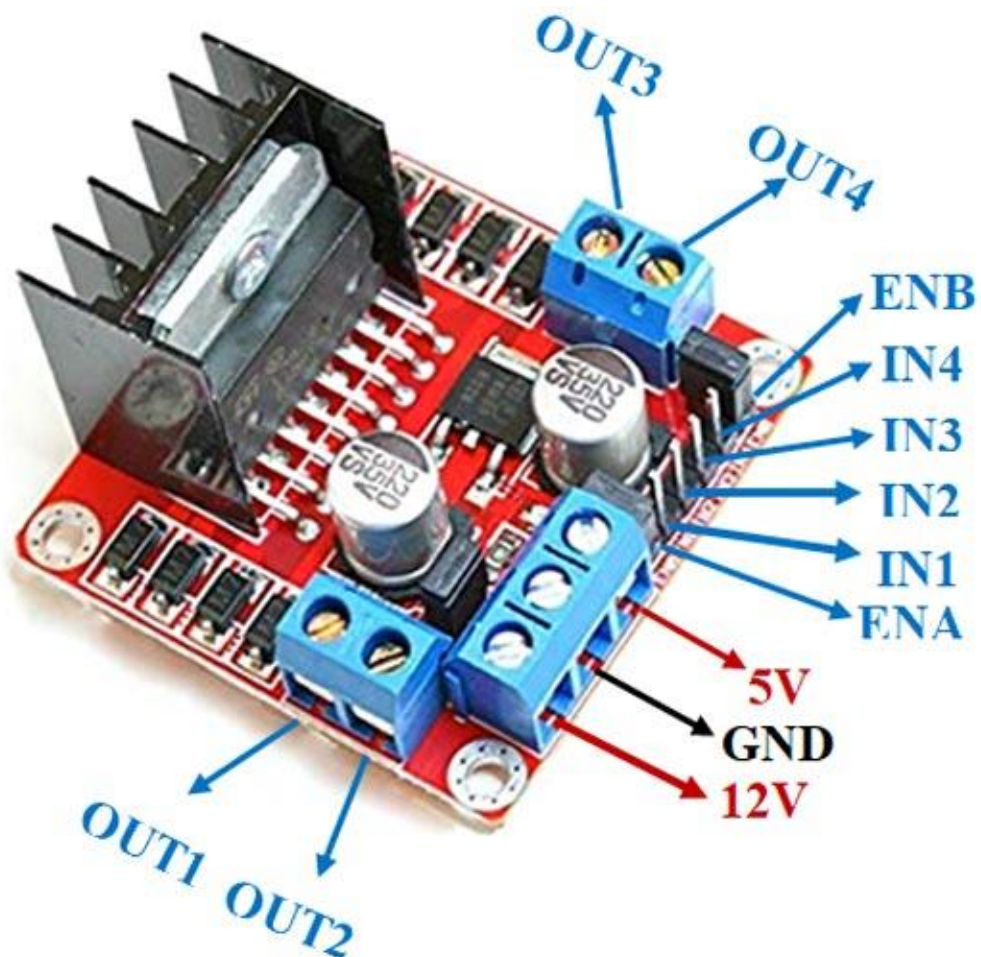
NC : No Connection



Microcontroller	ATmega328
Clock Speed	16MHz
Operating Voltage	5V
Maximum supply Voltage (not recommended)	20V
Supply Voltage (recommended)	7-12V
Analog Input Pins	6
Digital Input/Output Pins	14
DC Current per Input/Output Pin	40mA
DC Current in 3.3V Pin	50mA
SRAM	2KB
EEPROM	1KB
Flash Memory	32KB of which 0.5KB used by boot loader

Motor Driver L298N:





L293D Pin And Specification:

