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L293d motor driver module datasheet pdf

Pulse Electronics' "flex family" line of internal FPC antennas are a flexible solution for a variety of applications. Murata's small transducer is ideal for human, object, and gesture detection and distance measuring Enables intelligence in applications and increases efficiency for medical and industrial applications Intel's D455 depth camera for indoors or outdoors provides twice the range with better performance. Mechatronics fan solutions are designed for potentially hazardous atmospheres BKZ Series DC power jacks from Switchcraft have an easy twist-lock feature. MCC's field stop trench IGBT series devices allow currents of 40 A by max. voltage of 650 V & 1200 V Amphenol ICC's SAS/PCIe 4.0 (U.2 and U.3) connectors are made to withstand diverse conditions L293D L293 and L293D are quadruple half H Bridge driver having high current capability. It can also be seen as a dual H Bridge driver for driving Motors. L293D can provide currents up to 600mA and L293 can provide currents up to 1A at voltages ranging from 4.5 to 36. Both L293 and L293D are designed to drive inductive loads such as solenoids, relays, dc motors, bipolar stepper motors and other high current or voltage applications. Wide range of supply voltage from 4.5 to 36v Separate Input Logic Supply can be provided Output Current per channel 1A for L293 and 600mA for L293D Peak Current per channel 2A for L293 and 1.2A for L293D Output Clamp diodes are provided to drive inductive loads in L293D. Automatic Thermal Shutdown Pin Diagram of L293D Vcc1 : Logic Input Voltage Vcc2: Driver/Motor Supply A : Input Y : Output 1, 2 EN : Enable Of First Pair 1, 2 3, 4 EN : Enable of Second Pair 3, 4 Drivers are enabled in pairs. Logic HIGH at EN1,2 pin enables the drivers 1 and 2. Logic HIGH at EN 3,4 enables the drivers 3 and 4. Logic Voltage should be provided to the Vcc1 pin and motor supply is given to Vcc2 pin. For example, if your motor works at 12v and you are going to control it with control signals from a PIC Microcontroller. Then you have to connect 12V to Vcc2 and 5V to Vcc1 pin and the ground of both supplies should be common. Block Diagram of L293 or L293D For more details please read the datasheet and you can download it here… If you are planning on assembling your new robot, you will eventually want to learn about controlling variety of motors like DC motors, Stepper motors & servos. One of the easiest and inexpensive way to do that is to interface L293D Motor Driver Shield with Arduino. It's a full-featured motor shield – perfect for many robot and CNC projects.It can drive :4 bi-directional DC motors with 8-bit speed selection(0-255)2 stepper motors (unipolar or bipolar) with single coil, double coil, interleaved or micro-stepping.2 servo motorsL293D Motor Driver & 74HC595 Shift RegisterThe L293D is a dual-channel H-Bridge motor driver capable of driving a pair of DC motors or single stepper motor.As the shield comes with two L293D motor driver chipsets, that means it can individually drive up to four DC motors making it ideal for building four-wheel robot platforms.The shield offers total 4 H-Bridges and each H-bridge can deliver up to 0.6A to the motor.The shield also comes with a 74HC595 shift register that extends 4 digital pins of the Arduino to the 8 direction control pins of two L293D chips.Power SupplyThere exists three scenarios when it comes to supplying power for the motors through shield.Single DC power supply for both Arduino and motors:If you would like to have a single DC power supply for both Arduino and motors, simply plug it into the DC jack on the Arduino or the 2-pin EXT_PWR block on the shield. Place the power jumper on the motor shield.You can employ this method only when motor supply voltage is less than 12V.(Recommended) Arduino powered through USB and motors through a DC power supply:If you would like to have the Arduino powered off of USB and the motors powered off of a DC power supply, plug in the USB cable. Then connect the motor supply to the EXT_PWR block on the shield. Do not place the jumper on the shield.Two separate DC power supplies for the Arduino and motors:If you would like to have 2 separate DC power supplies for the Arduino and motors. Plug in the supply for the Arduino into the DC jack, and connect the motor supply to the EXT_PWR block. Make sure the jumper is removed from the motor shield.Warning:DO NOT supply power to the EXT_PWR input when jumper is in place. It may damage the motor shield and also your Arduino!As a bonus, the shield offers below features:The shield comes with a pulldown resistor array to keep motors switched off during power-up.The on-board LED indicates the motor power supply is Okay. If it is not lit, the motors will not run.The RESET is nothing but Arduino's reset button. It just brought up top for convenience.Output TerminalsThe output channels of both the L293D chips are broken out to the edge of the shield with two 5-pin screw terminals viz. M1, M2, M3 & M4. You can connect four DC motors having voltages between 4.5 to 25V to these terminals.Each channel on the module can deliver up to 600mA to the DC motor. However, the amount of current supplied to the motor depends on system's power supply.You can also connect two stepper motors to output terminals. One stepper motor to motor port M1-M2 and other to M3-M4.The GND terminal is also provided if you happen to have a unipolar stepper motor. You can connect the center taps of both stepper motors to this terminal.The shield brings out the 16bit PWM output lines to two 3-pin headers to which you can connect two servo motors.Digital pins #2, #13 and analog pins A0-A5 are not used by the shield.Analog pins are broken out in the bottom right corner where pin 2 has a small breakout. If you want to use these pins, you can connect some headers to it.Installing AFMotor LibraryIn order to communicate with the shield, we need to install AFMotor.h library so that we can issue simple commands to control DC, stepper & servo motors.To install the library navigate to the Sketch > Include Library > Manage Libraries… Wait for Library Manager to download libraries index and update list of installed libraries.Filter your search by typing 'motor shield'. There should be a couple entries. Look for Adafruit Motor Shield library(V1 Firmware) by Adafruit. Click on that entry, and then select Install.Driving DC Motors with L293D ShieldNow that we know everything about the shield, we can begin hooking it up to our Arduino!Start by plugging the shield on the top of the Arduino.Next, connect power supply to the motors. Although you can connect DC motors having voltages between 4.5 to 25V to the shield, in our experiment we are using DC Motors that are rated for 9V. So, we will connect external 9V power supply to the EXT_PWR terminal.Now, connect the motor to either M1, M2, M3 or M4 motor terminals. In our experiment we are connecting it to M4.Wiring DC Motor to L293D Motor Shield & ArduinoThe following sketch will give you complete understanding on how to control speed and spinning direction of a DC motor with L293D motor driver shield and can serve as the basis for more practical experiments and projects.#include AF_DCMotor motor(4); void setup() { //Set initial speed of the motor & stop motor.setSpeed(200); motor.run(RELEASE); } void loop() { uint8_t i; // Turn on motor motor.run(FORWARD); // Accelerate from zero to maximum speed for (i=0; i

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