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# Channel Servo Driver-16

Channel Servo Driver-16

## **:Features**

- Driver IC: PCA9685 •
- Voltage Range – Input: 3V to 5V •
- Max. Supply Voltage: 6V •
- Frequency(Fast-mode 12C-bus): 40-1000Hz •
- .Channel number: 16 channel •
- Resolution: 12 bit •
- hardware address pins allow 62 PCA9685 devices to be connected to the same I2C-bus 6 •

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# DOF Pan and Tilt For Servos 2

This 2 DOF Short Pan and Tilt Servo Bracket Mount Kit is compatible with MG995 and MG996 Servo Motors. It can be used for mounting other sensors such as Ultra-sonic Distance Sensor modules. The Servo bracket .system is supplied in un-assembled form and requires user to install servo motors and camera

## **:Features**

- (Supported Motors: 10kg-cm servos (such as MG995, MG996 •
- No of Axis: 2 axis •
- Weight : 51.2gms •
- No of Metallic Pieces: 2 •
- Material: Metal •

## **:Applications**

- FPV Camera systems •
- Object tracking Systems •
- Security Camera application •
- Ultrasonic Distance measurement and Ultrasonic Radars •
- Robotic Arm and Robotic Leg applications •

### :Package Includes

- x Long U-Type Servo Bracket 1
- x Multi-function Servo Bracket 1
- set of screws and nuts 1

## 6v DC Motor Size 130 / محرك DC 6 فولت

DC motor size 130 with two wire leads, Miniature motor with flat sides for easy use. Lead wire attached. Runs up to 11000 rpm. This range makes them perfect for controlling with an Arduino or Raspberry Pi .The wires soldered on already for fast prototyping

Shaft Size: 8mm x 2mm diameter

Starting Torque: 20 g\*cm

Starting Voltage: 2.0

Stall Current: 500mA max

Body Size: 27.5mm x 20mm x 15mm

Weight: 17.5 grams

محرك دي سي بحجم 130 يوجد به سلكين لتوصيلهم مع مصدر الطاقة . يمكن استخدامه في تصميم المشاريع الاولى او الصغيرة التي لا تحتاج لعزم اكبر . يمكن استخدامه مع الاردوينو والرابري باي لصنع المشاريع الالكترونية المختلفة .

- حجم عمود الدوران : 8 مم
- العزم : 20 جرام \*سم
- الفولتية : 2.0
- القيمة القصوى للتيار : 500 ملي امبير
- حجم الشكل الخارجي : 27.5 مم \* 20 مم \* 15 مم
- الوزن : 17.5 جرام

## 9V DC Motor

Product Name : DC Motor

Rated Voltage : DC 9V

Speed : 8000RPM

Current : 68mA

Shaft Size : 2 x 11mm  
Main Color : Silver Tone  
Material : Metal

اسم المحرك : محرك دي سي  
جهد : 9 فولت دي سي  
سرعة المحرك : 8000 ا ر بي ام  
التيار : 68 ملي امبير  
اللون : فضي  
المواد المصنعة : حديد

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## Flat Vibration Motor

Flat Vibration Motor

### :Features

- model No.:1027
- Rated Voltage(V) : 3
- Operating Voltage (VDC) : 2.5 ~ 4
- Operating Temperature (°C) : -20 to 60
- Min. Rated Speed(RPM) :12000±2500
- Rated Current(mA): 70
- (.Start Current(mA): 90 (Max
- (.Start Voltage: (V): 2.3V DC (Max
- Insulation Resistance: 10Mohm
- Frame Diameter (mm): 10±0.1
- Thickness: 2.7 ± 0.1

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## Flat Vibration Motor module

Flat Vibration Motor module

### :Features

- Operating Voltage (VDC) : 3 ~ 5.3
- Rated Voltage (V): 5

- Rated Current: up to 60 mA •
- Start Current: up to 90 mA •
- Starting Voltage: 3.7 VDC •
- (Rated Speed: 9000 RPM (min •
- Insulation Resistance : 10 MΩ •
- Motor Diameter : 10mm •
- Motor Thickness: 2.7mm •

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## Flexible Coupling Coupler with 65mm wheel

The outer tire of this tire is made of soft rubber material, the tread pattern is so complex that it possesses large friction. It uses a coupling to connect the motor and is compatible with 370 motors. The stability is much higher than ordinary tires that are directly inserted into the motor shaft. This tire can be combined .with acrylic or aluminum alloy chassis to create a balance car, aluminum alloy robot car, etc

### **:Features**

- Tire Material: Rubber •
- Diameter: 65mm •
- Width: 27mm •
- Hub diameter: 52mm •
- Color: Blue •

### **Package List:**

- 1 x Large friction Tire
- 1 x 520 motor coupling(6mm)
- 3 x Screws

.Note: This tire cannot be connected to TT DC geared motor

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## L-Bracket for NEMA 17

L-Bracket for NEMA 17

### **:Features**

- Size: 51x53x50 mm •
- Material: Alloy Steel •
- Fit for NEMA 17 Stepper Motor •

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## L298 Motor driver

Product Name : Motor Driver

Model : L298

Motor supply: 6 to 35 VDC

Control Logic: Standard TTL Logic Level

Output Power: Up to 2A each

Enable and Direction Control Pins

Heat sink for IC

Power-On LED indicator

4 Direction LED indicators

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## Motor Mount Plate for NEMA 23

Easily mount a NEMA 23 Stepper motor onto any plate or V-Slot to create a belt & pinion or any other type of actuator

### **:Features**

- Size: 60mm x 96.5mm •
- Slots to easy tension adjustment •
- Multiple holes to accommodate and design •
- Thickness: 3mm •
- Material: Aluminum •
- Color: Black •

### **What is Included:**

1 x Motor Mount Plate for NEMA 23 Stepper Motor

# Motor Shield V2

Motor Shield V2 to Control 4 DC Motor or 2 Stepper and Servo

Motor Stepper Servo Robot Shield v2 with PWM Driver Shield For Arduino

- **connections for 5V 'hobby' servos** connected to the Arduino's high-resolution dedicated 2 • !timer – no jitter
- H-Bridges: TB6612 chipset provides **1.2A per bridge** (3A for brief 20ms peaks) with thermal 4 • shutdown protection, internal kickback protection diodes. Can run motors on 4.5VDC to • .13.5VDC
- **Up to 4 bi-directional DC** motors with individual 8-bit speed selection (so, about 0.5% • (resolution
- **Up to 2 stepper motors** (unipolar or bipolar) with single coil, double coil, interleaved or micro- • .stepping
- Motors automatically disabled on power-up •
- Big terminal block connectors to easily hook up wires (18-26AWG) and power •
- Arduino reset button brought up top •
- Polarity protected 2-pin terminal block and jumper to connect external power, for separate • logic/motor supplies
- Tested compatible with Arduino UNO, Leonardo, ADK/Mega R3, Due, Diecimila & Duemilanove. •
- .Works with Mega/ADK R2 and earlier with 2 wire jumpers

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## Mount Plate for Nema 17

Easily mount a NEMA 17 Stepper motor onto any plate or V-Slot Linear to create a belt & pinion or any •  
•.other type of actuator

### :Features

- Size: 39.5mm x 82mm •
- Slots to easy tension adjustment •
- Multiple holes to accommodate and design •
- Thickness: 3mm •
- Material: 6063 – T6 Aluminum •
- Finish: Anodized Aluminum •
- Color: Black •

### What is Included:

1 x Motor Mount Plate for NEMA 17 Stepper Motor