



Grove - Servo

Release date : 9/20/2015

Version : 1.0

Wiki: [http://www.seeedstudio.com/wiki/Grove - Servo](http://www.seeedstudio.com/wiki/Grove_-_Servo)

Bazaar: <http://www.seeedstudio.com/depot/Grove-Servo-p-1241.html>

Document Revision History

| Revision | Date | Author | Description |
|----------|--------------|-----------|-------------|
| 1.0 | Sep 21, 2015 | Victor.He | Create file |
| | | | |

Contents

| | |
|--------------------------------|---|
| Document Revision History..... | 2 |
| 1. Introduction | 2 |
| 2. Features..... | 3 |
| 3. Specifications | 4 |
| 4. Usage..... | 5 |
| 5. Support..... | 6 |

Disclaimer

For physical injuries and possessions loss caused by those reasons which are not related to product quality, such as operating without following manual guide, natural disasters or force majeure, we take no responsibility for that.

Under the supervision of Seeed Technology Inc., this manual has been compiled and published which covered the latest product description and specification. The content of this manual is subject to change without notice.

Copyright

The design of this product (including software) and its accessories is under tutelage of laws. Any action to violate relevant right of our product will be penalized through law. Please consciously observe relevant local laws in the use of this product.

1. Introduction

Grove - Servo is DC motor with gearing and feedback system. It is used in driving mechanism of robots. The module is a bonus product for Grove lovers. We regulated the three-wire servo into a Grove standard connector. You can plug and play it as a typical Grove module now, without jumper wires clutter. But if you feel more like a proto servo, check out EMAX 9g ES08A High Sensitive Mini Servo. They are the same model, both of good quality and burden-free price.



2. Features

- Small module
- Grove Compatible Interface
- Easy to use

3. Specifications

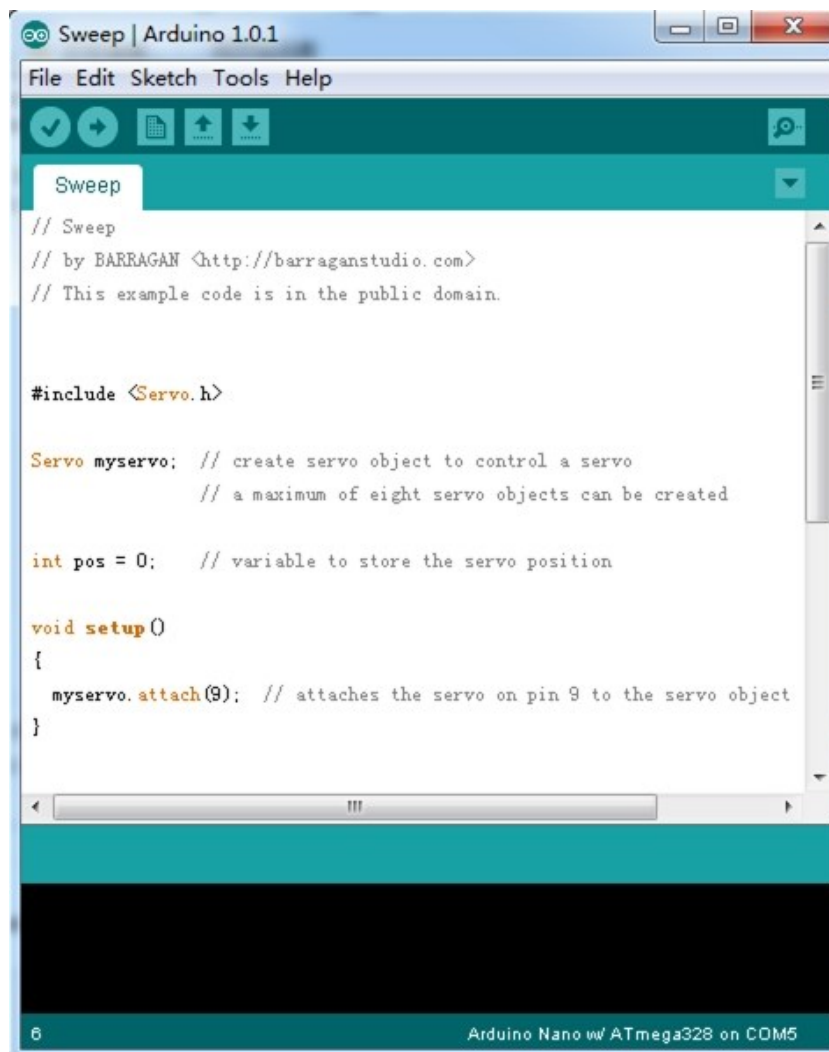
| Item | Min | Typical | Max | Unit |
|-----------------|------------|---------|-----|-------|
| Working Voltage | 4.8 | 5.0 | 6.0 | V |
| Torque | 1.5/1.8 | | | Kg.cm |
| Speed | 0.12/0.16 | | | s/60° |
| Size | 32X11.5X24 | | | mm |
| Weight | 8.5 | | | Gram |

4. Usage

The Servo has three wires: power, ground, and signal. The power wire is typically red, and should be connected to the 5V pin on the Arduino/Seeeduino board. The ground wire is typically black or brown and should be connected to a ground pin on the Arduino board. The signal pin is typically yellow, orange or white and should be connected to Digital 9 on the Arduino board. You can change to the digital port as you like. But don't forget to change the port number in the definition of the demo code at the same time.

Next sweeps the shaft of a servo back and forth across 180 degrees. This example makes use of the Arduino [servo library](#).

- Connect the Servo to Seeeduino and connect Seeeduino to PC using a USB cable.
- Restart the Arduino IDE, open one demo code you like, for example Sweep directly by the path: File -> Example -> Servo -> Sweep.



```
Arduino IDE - Sweep | Arduino 1.0.1
File Edit Sketch Tools Help
Sweep
// Sweep
// by BARRAGAN <http://barraganstudio.com>
// This example code is in the public domain.

#include <Servo.h>

Servo myservo; // create servo object to control a servo
               // a maximum of eight servo objects can be created

int pos = 0;   // variable to store the servo position

void setup()
{
  myservo.attach(9); // attaches the servo on pin 9 to the servo object
}

6 Arduino Nano w/ ATmega328 on COM5
```

- Upload the code. Please click [here](#) if you do not know how to upload.

5. Support

If you have questions or other better design ideas, you can go to our [forum](#) or [wish](#) to discuss.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.