SERVO2 Module 16 Channels - 13.2 (PCA9685)

Description

SERVO 2 is an updated servo driver module in the M5Stack stackable module series. It uses a PCA9685 16 channel PWM controller to control 16 channel servos at the same time. The power input is 6-12V DC and two SY8368AQQC chips are used for voltage reduction.

The maximum total power output of dual channel is 35W (5V / 3.5A * 2), and the maximum output power of single channel is 25W (5V / 5A). When the battery base is used for power supply, the maximum output power is 5V / 2A. The module communicates with the host directly through I2C (the default address is 0x40) however

the I2C address can be changed(0x40 - 0x47) through the dial switch. This also means that multiple Servo 2 modules can be stacked and used simultaneously. There is a power switch on the board to control the power supply of Servo 2.

Product Features

- 16x actuator drive channel
- 2X power indicator
- I2C address adjustable
- External DC power supply input: 6-12V
- DC connector type: XT60

Include

- 1x Servo2 Module
- 1x XT60 power cable(11.5cm)

Applications

- Humanoid robot
- Bionic multi joint robot
- 3-axis steering gear pan tilt

Specification

Resources	Parameter
Net weight	28g
Gross weight	60g
Product Size	54.2*54.2*13.2mm
Package Size	95*65*25mm