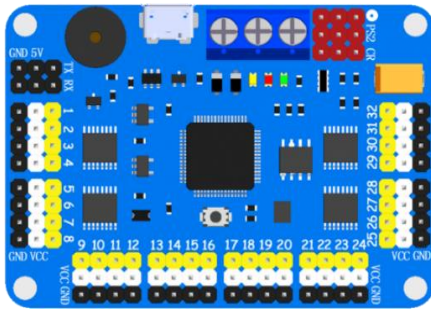


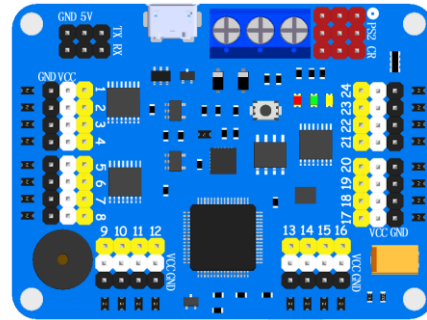
## Parameters:

<b>Hardware</b>	32 channels	24 channels	16 channels
<b>Operating Voltage</b>	5V	5V	5V
<b>Servo Motor Input Voltage</b>	According to the servo	According to the servo	According to the servo
<b>CPU</b>	32bit	32bit	32bit
<b>Baud Rate (USB)</b>	115200	115200	115200
<b>Baud Rate</b> (Bluetooth, WIFI, UART)	4800、9600、19200、 38400、57600、115200	4800、9600、19200、 38400、57600、115200	4800、9600、19200、 38400、57600、115200
<b>Flash Capacity</b>	16M	16M	16M
<b>Servo motor synchronous quantity</b>	32	24	16
<b>Max Action Groups</b>	255	255	255
<b>control precision</b>	1us	1us	1us
<b>Servo Motor signal isolation</b>	Yes	Yes	Yes
<b>Current limiting protection</b>	No	Yes	Yes
<b>MPU6500</b>	No	Yes	NO
<b>External sensor support</b>	No	No	Yes
<b>Indicator led</b>	1.CPU power indicator led (red) 2.Servo motor power indicator led (green) 3. wireless remote control (Yellow)	1.CPU power indicator led (red) 2.Servo motor power indicator led (green) 3.wireless remote control (Yellow)	1.CPU power indicator led (red) 2.Servo motor power indicator led (green) 3.wireless remote control (Yellow)
<b>Size</b>	64mm X 45mm	64mm X 47.5mm	58.5mm x 45mm
<b>Communication Protocol</b>	UART	UART	UART
<b>Computer Software</b>	Windows XP or later, Mac OS 10.8 or later, Linux(kernel 3.0 or later)	Windows XP or later, Mac OS 10.8 or later, Linux(kernel 3.0 or later)	Windows XP or later, Mac OS 10.8 or later, Linux(kernel 3.0 or later)
<b>Low pressure alarm</b>	Default Open	Default Open	Default Open
<b>Servo motor initial value</b>	Default 1500	Default 1500	Default 1500
<b>Support The Servo motor Type</b>	9G~55G	9G~55G	
<b>Online Operations Support</b>	C51、Arduino、ARM、MSP、DSP、WIFI、Bluetooth、Compute	C51、Arduino、ARM、MSP、DSP、WIFI、Bluetooth、Computer	C51、Arduino、ARM、MSP、DSP、WIFI、Bluetooth、Computer
<b>wireless remote control</b>	1. one servo motor control 2. action groups control	1. one servo motor control 2. action groups control	1. one servo motor control 2. action groups control

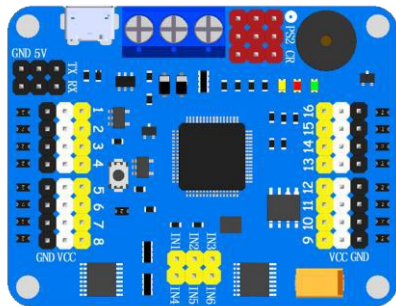
**32 channels:**



**24 channels:**



**16 channels:**



Robot

# Instruction:

## Communication Protocol:

serial communication	baud rate	parity bit	data bits	stop bits
TTL	9600(default)	none	8	1

## Instruction format:

name	command	description
Controller single servo	#1P1500T1000D800\r\n	Data 1 refers to the servo' s channel Data 1500 Refers to the servo' s location, in the range 500-2500 Data 1000 refers to the time of execution and represents the speed, in the range 100-9999 Data 800 refers to the Instruction interval of delay time, in the range 100-9999
Controller multiple servo	#1P1500#2P1500T1000D800\r\n	Data 1、 2 refers to the servo' s channel Data 1500 Refers to the servo' s location, in the range 500-2500 Data 1000 refers to the time of execution and represents the speed, in the range 100-9999 Data 800 refers to the Instruction interval of delay time, in the range 100-9999
run action groups	G1F3\r\n	Data 1 refers to the group' s channel Data 3 refers to the frequency of runs

**Note:** "\r\n" converted to hexadecimal is "0X0D 0X0A" ;All command is ASCII.

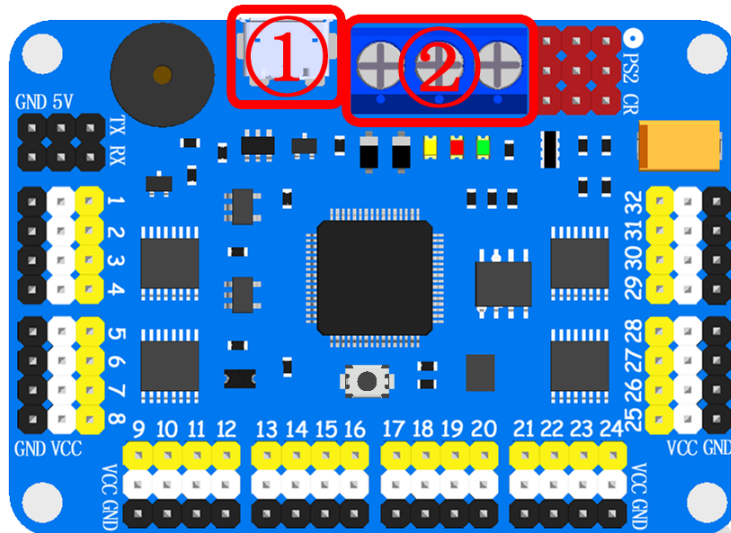
"0x0D" == "\r" == "CR"

"0x0A" == "\n" == "LF"

Tip: If the function or software used in the program has "\r\n" , it is not necessary to add it at the end. When the instruction is completed Controller feedback "OK" .

## Wiring methods:

### I . Power supply access method, *P.1* location:



*P.1*

**VCC:** Servo motor power input VCC, can be connected to 4.2 V ~ 7.2 V power supply; plugged into power supply for the anode, please.

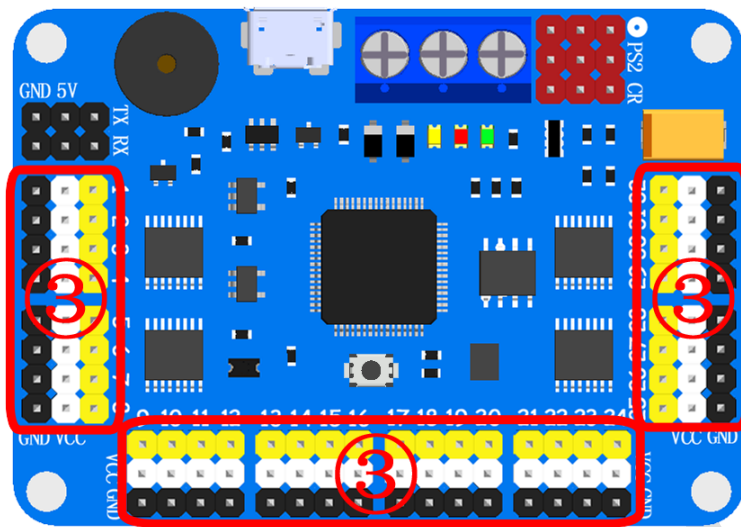
**GND:** The overall GND of servo motor controller, can be connected to servo motor power GND or CPU power GND; plugged into power supply for the cathode, please.

**5V:** Servo motor controller CPU power input, Voltage range:5V~8.5V.

**USB(①):** Servo motor controller CPU power input and data communication port.

**Note:** 5V interface and USB interface can not access the power supply at the same time. Only one can be selected as the power interface

## II. Servo motor access method, P.2 location:



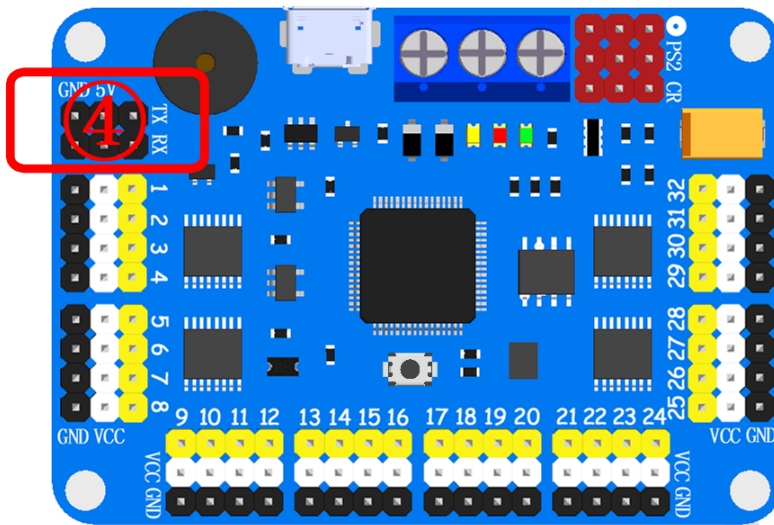
*P.2*

**Yellow Pin:** Servo motor I/O connected with the entrance, it usual be servo motor yellow or yellow soil.

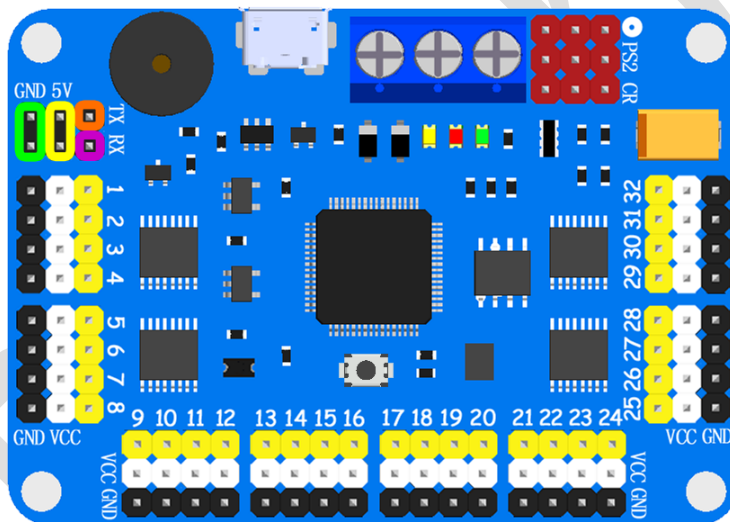
**White Pin:** Servo motor VCC connected with the entrance, it usual be servo motor red or dark red.

**Black Pin:** Servo motor GND connected with the entrance, it usual be servo motor brown or black.

### III. UART access method, *P.3* location, with the *P.4* reading:



*P.3*



*P.4*

**Green circle position:** CPU power input of GND for servo motor controller.

**Yellow circle position:** CPU power input of VCC for servo motor controller.

**Purple circle position:** UART RX port for servo motor controller.

**Orange circle position:** UART TX port for servo motor controller.

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