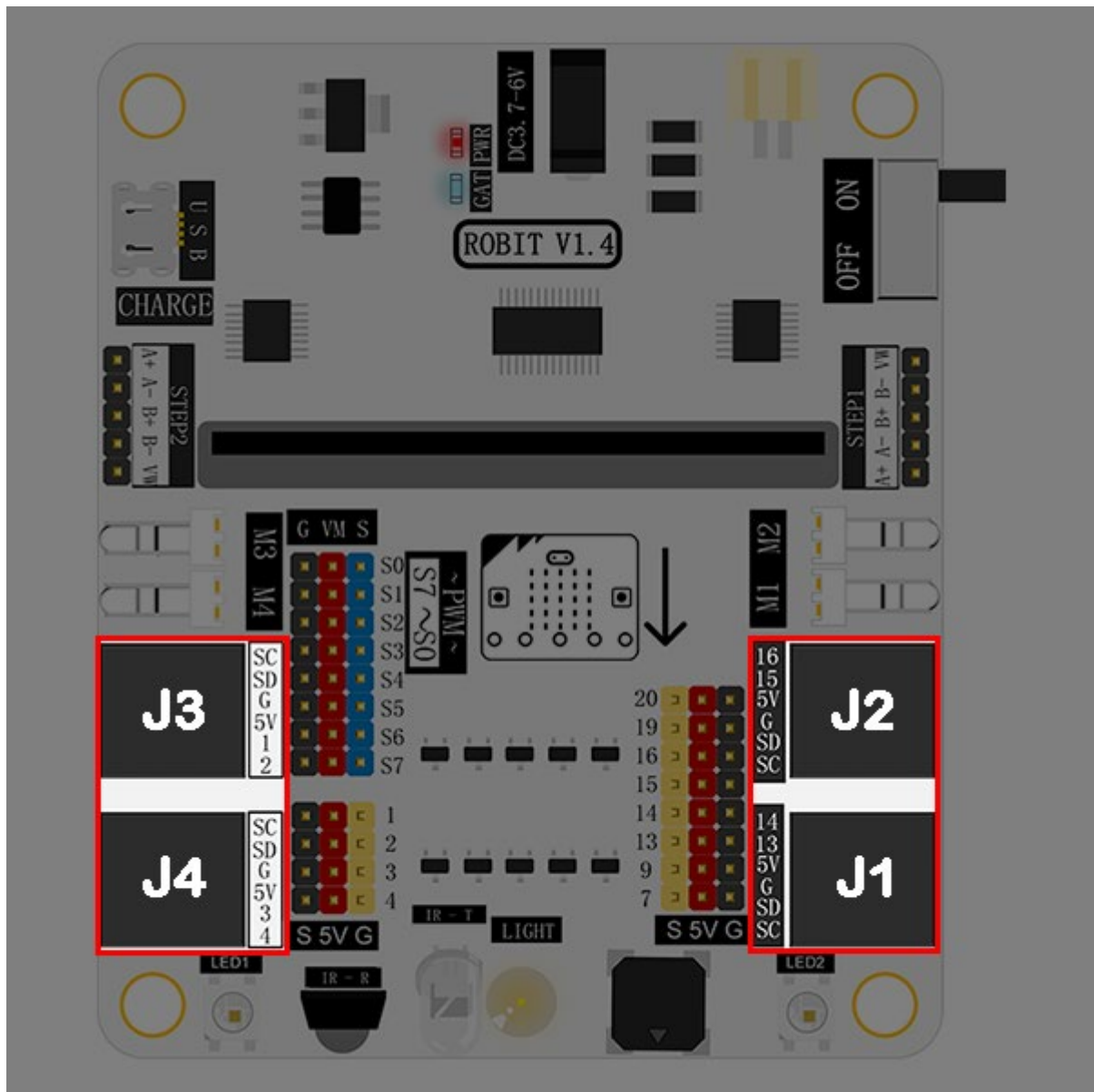


Introduction of Major Components

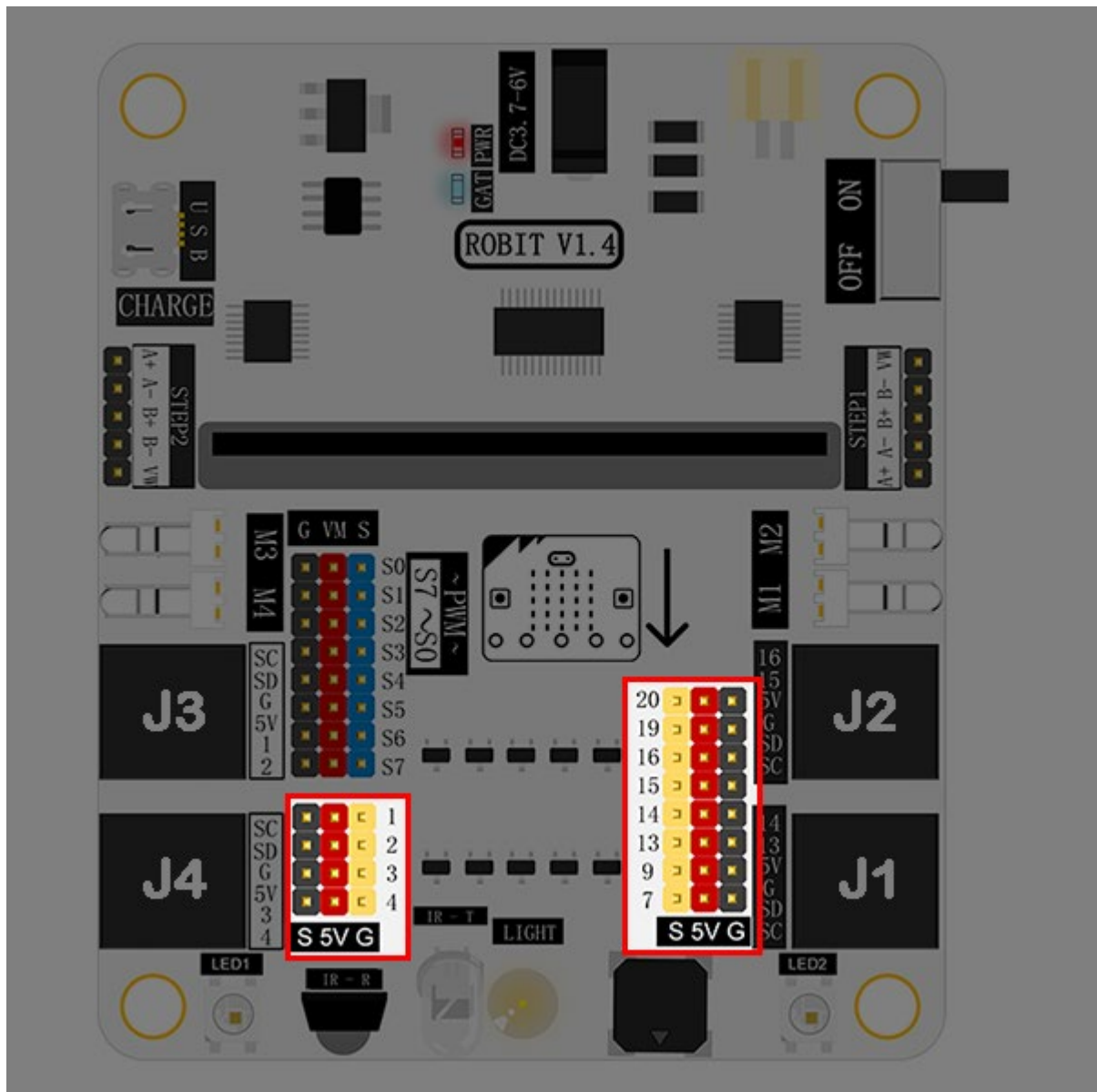
RJ25 Connector



Robit has 4 RJ25 connectors. Each RJ25 connector has 6 touch points. These points respond to power, 2 IO ports and IIC ports separately. It is compatible with some sensors on mBOT.

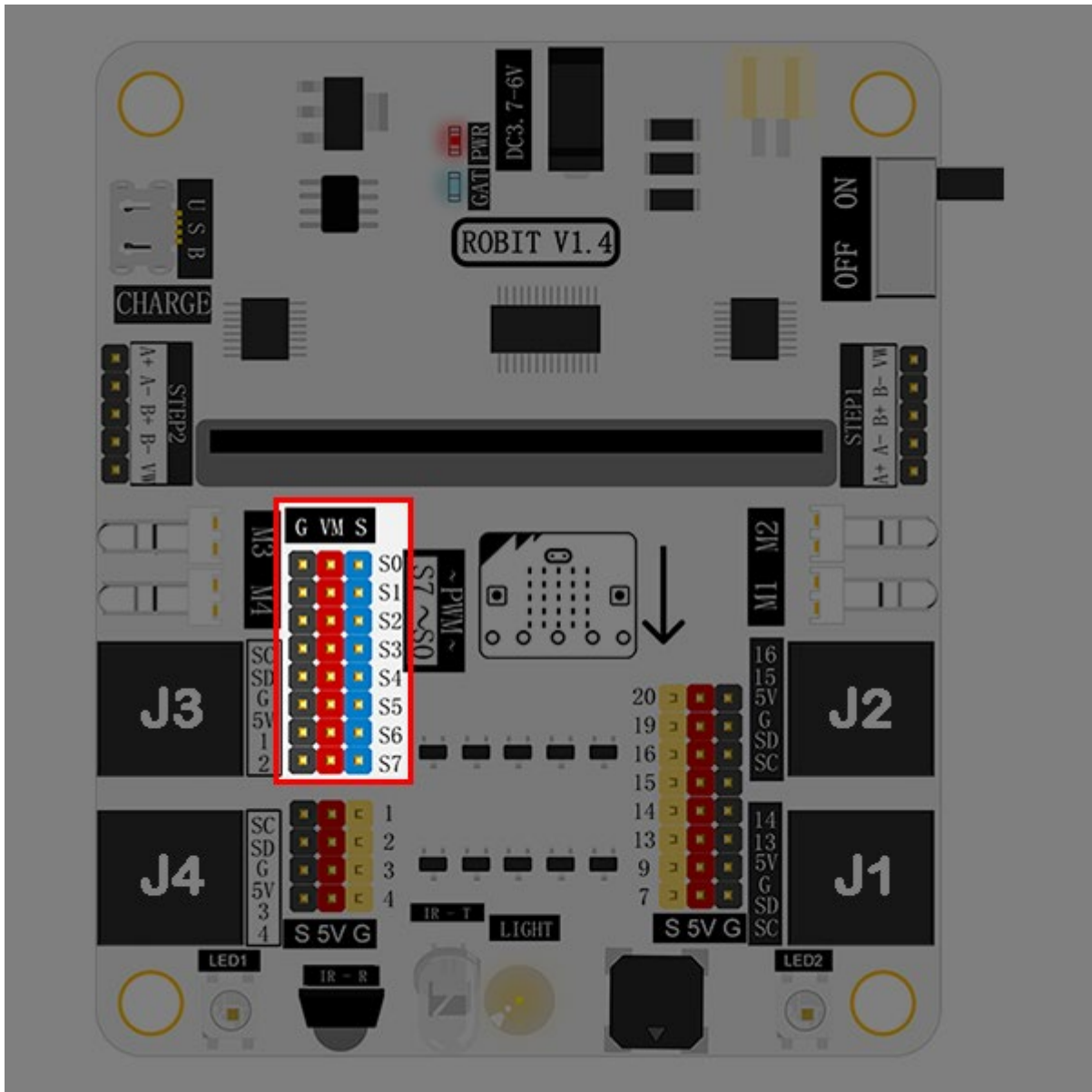
RJ25 Connector	Match Pins on micro:bit
J1	SCL(P19)/SDA(P20)/GND/5V/P13/P14
J2	SCL(P19)/SDA(P20)/GND/5V/P15/P16
J3	SCL(P19)/SDA(P20)/GND/5V/P1/P2 (support 5V analog input sensor)
J4	SCL(P19)/SDA(P20)/GND/5V/P3/P4 (support 5V analog input sensor)

GVS Standard Electric Brick Connector



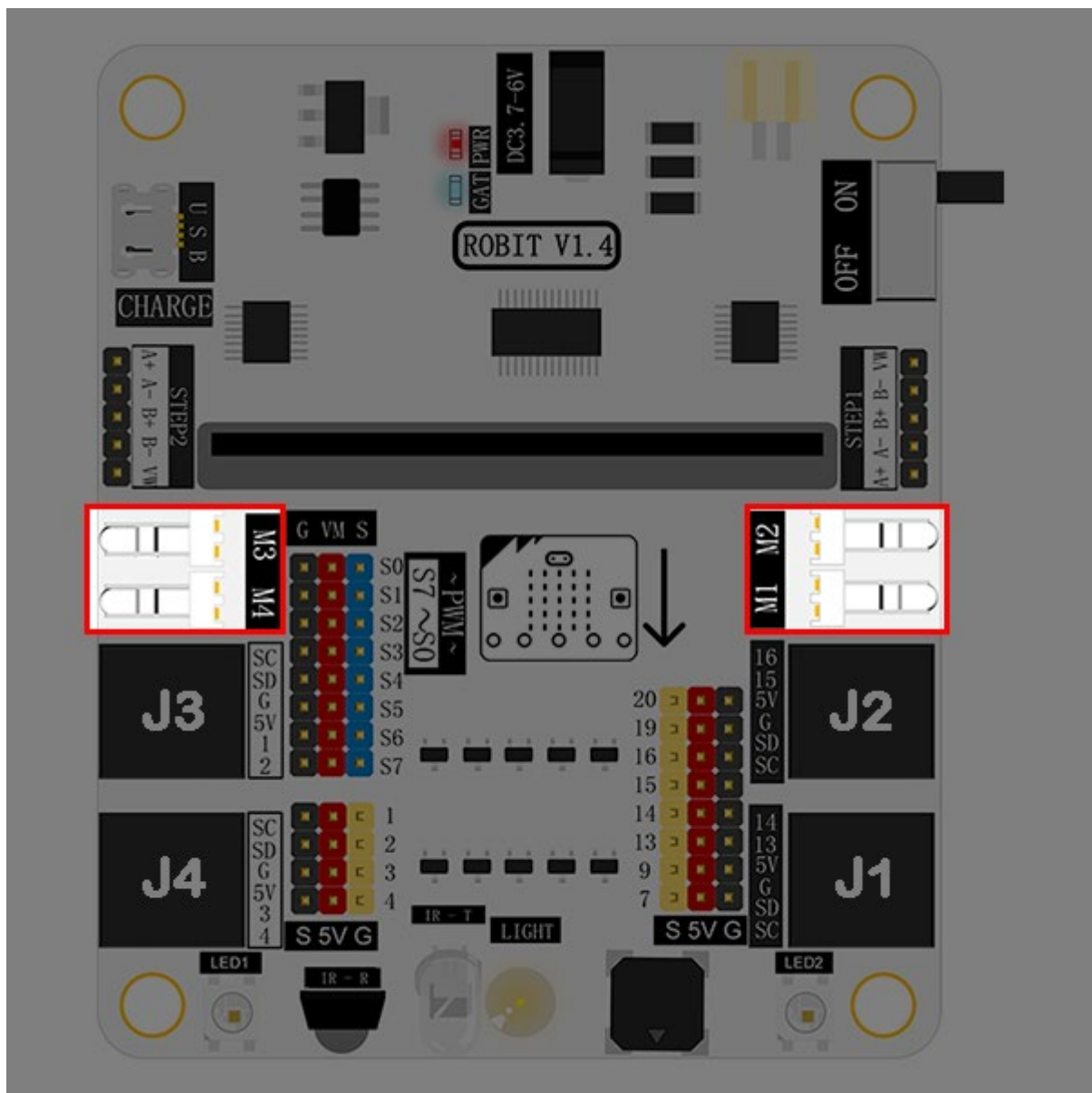
Except leading out to RJ25 connector, the IO port on micro:bit also lead out with the format of GVS. It is support 5V components. Besides, P1/P2/P3/P4 support 5V analog input sensors.

GVS Standard Servo Connector: S0~S7



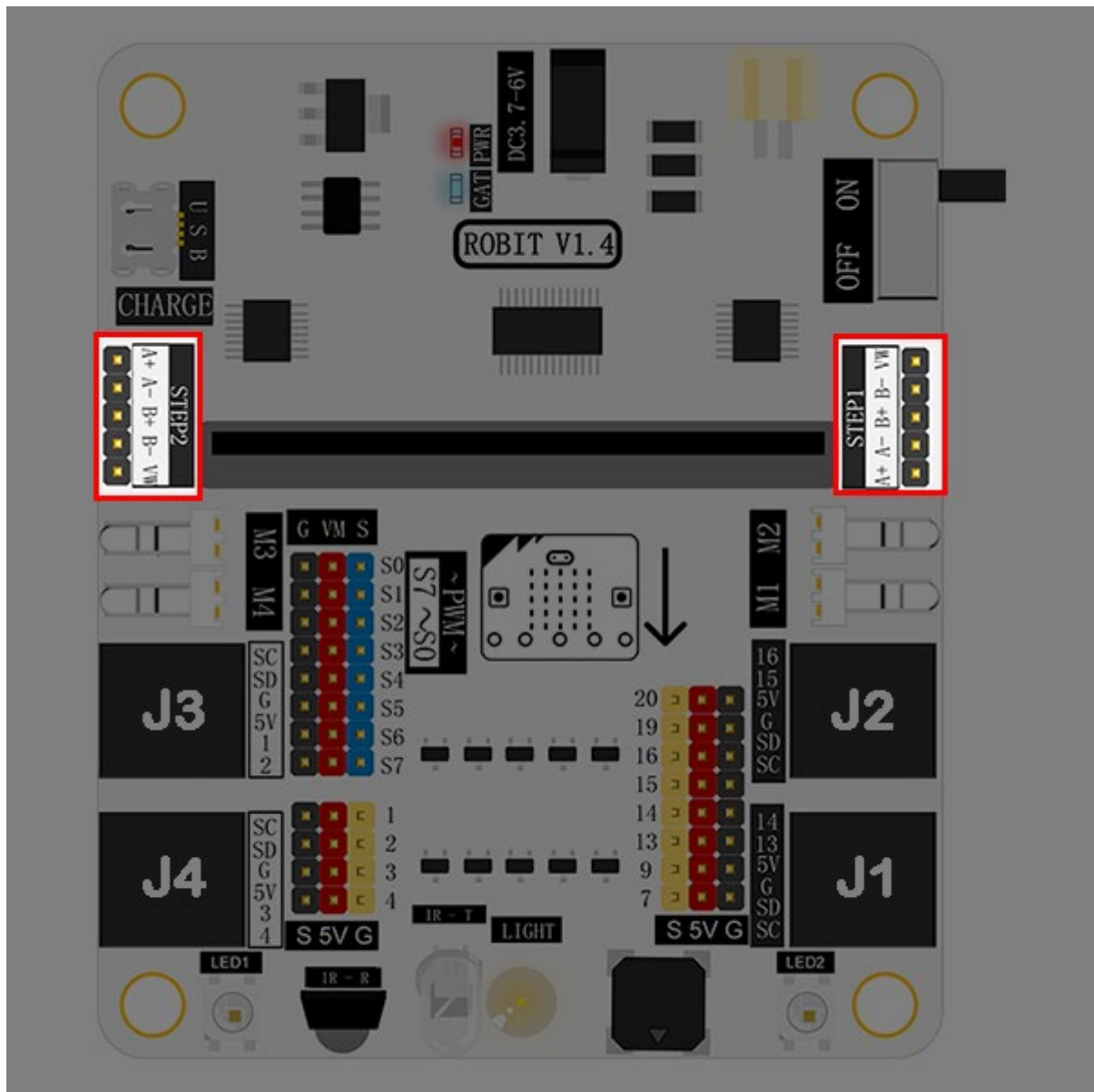
You can connect 8 servos at most. This connector leads out from the chip PCA9685 and extends from the IIC connector on micro:bit instead of normal I/O ports.

DC Motor Connector: M1~M4



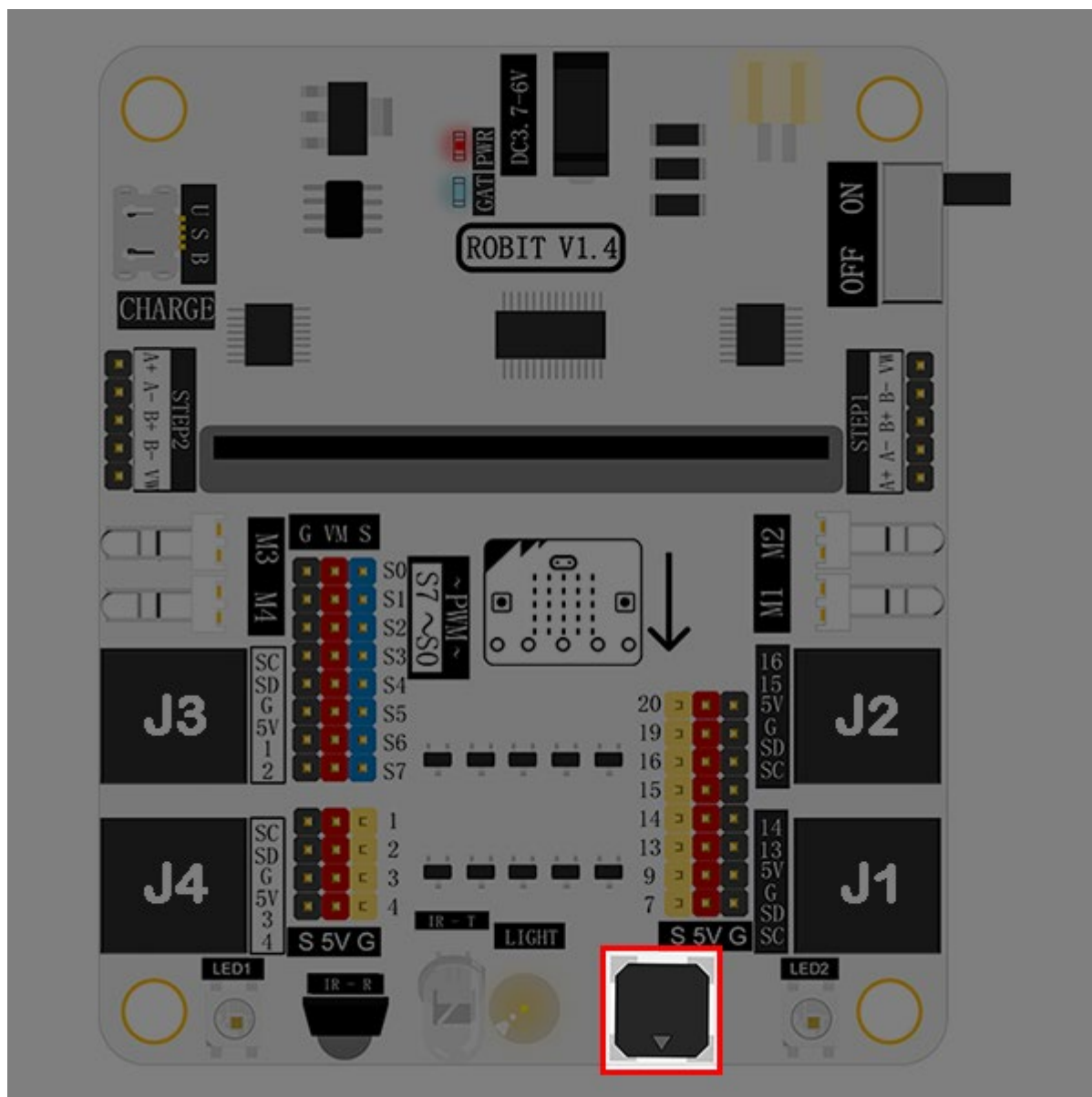
It allows you to connect 4 DC motors (max) at the same time. This connector leads out from the chip PCA9685 and extends from the IIC connector on micro:bit instead of normal I/O ports.

Stepping Motor Connector: STEP1 & STEP2



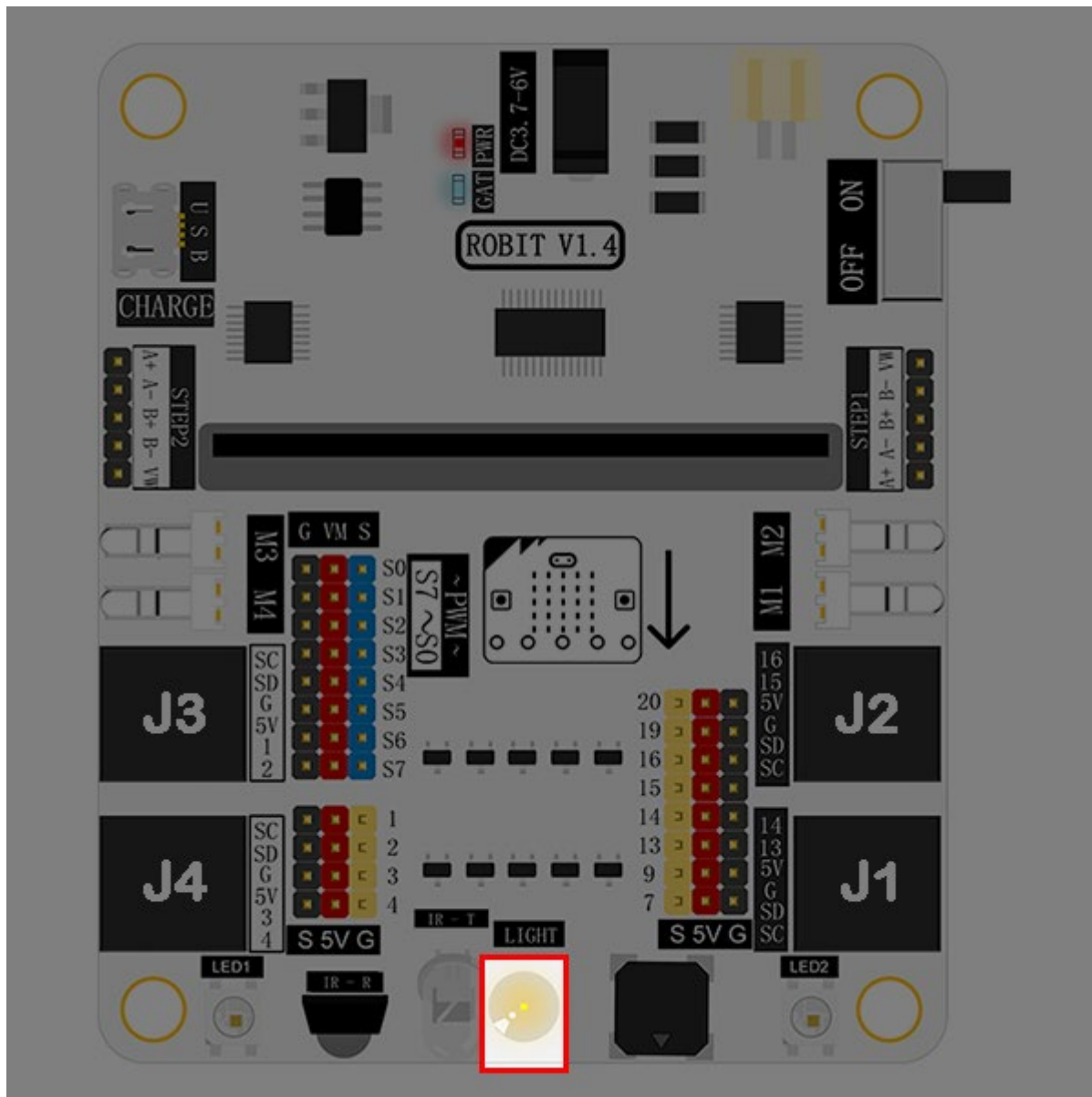
It enables you to connect 2 stepping motors(28BYJ-48-5V) at most.

Buzzer



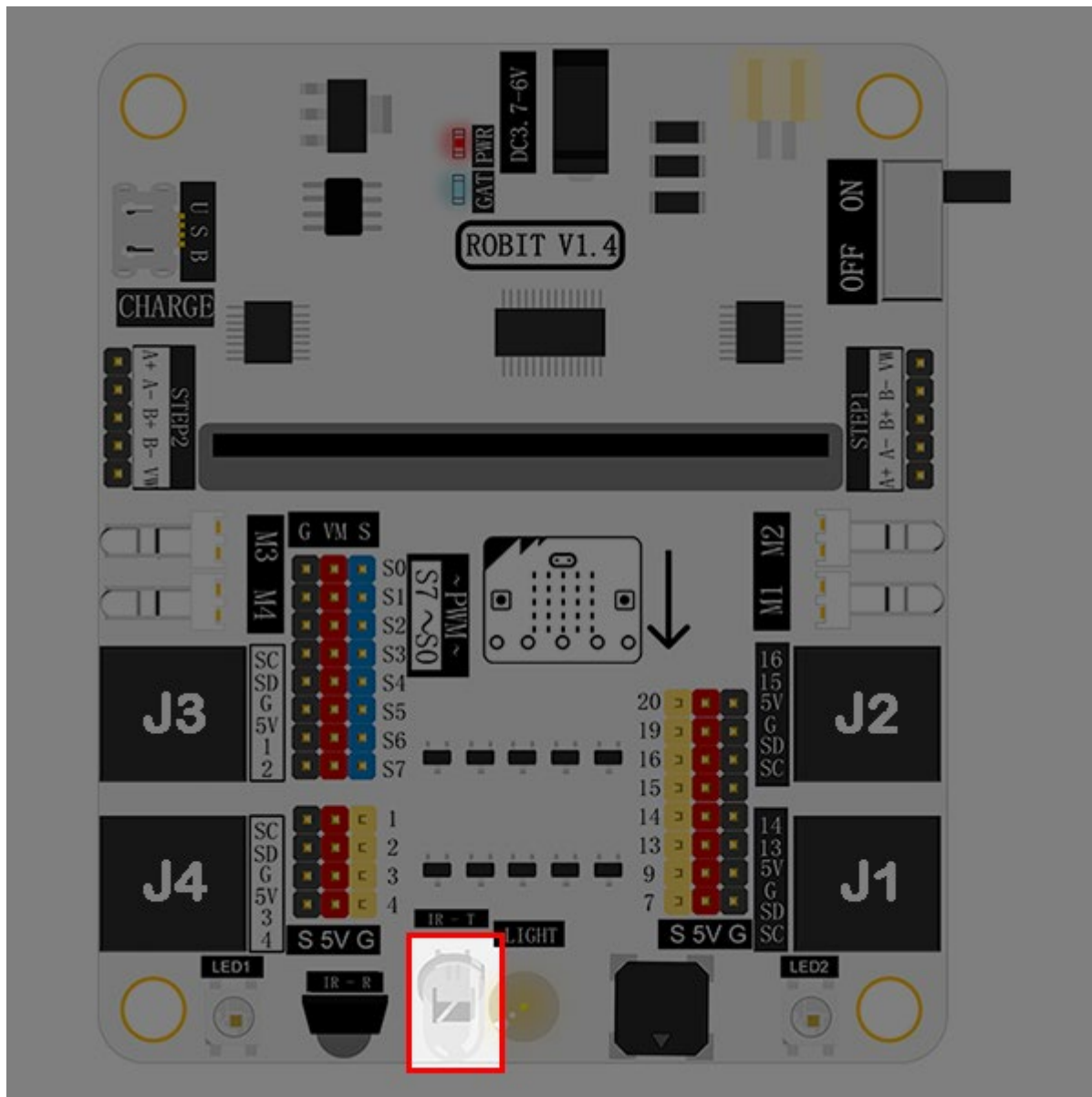
The buzzer is connected to the P0 port on micro:bit.

Light Sensor



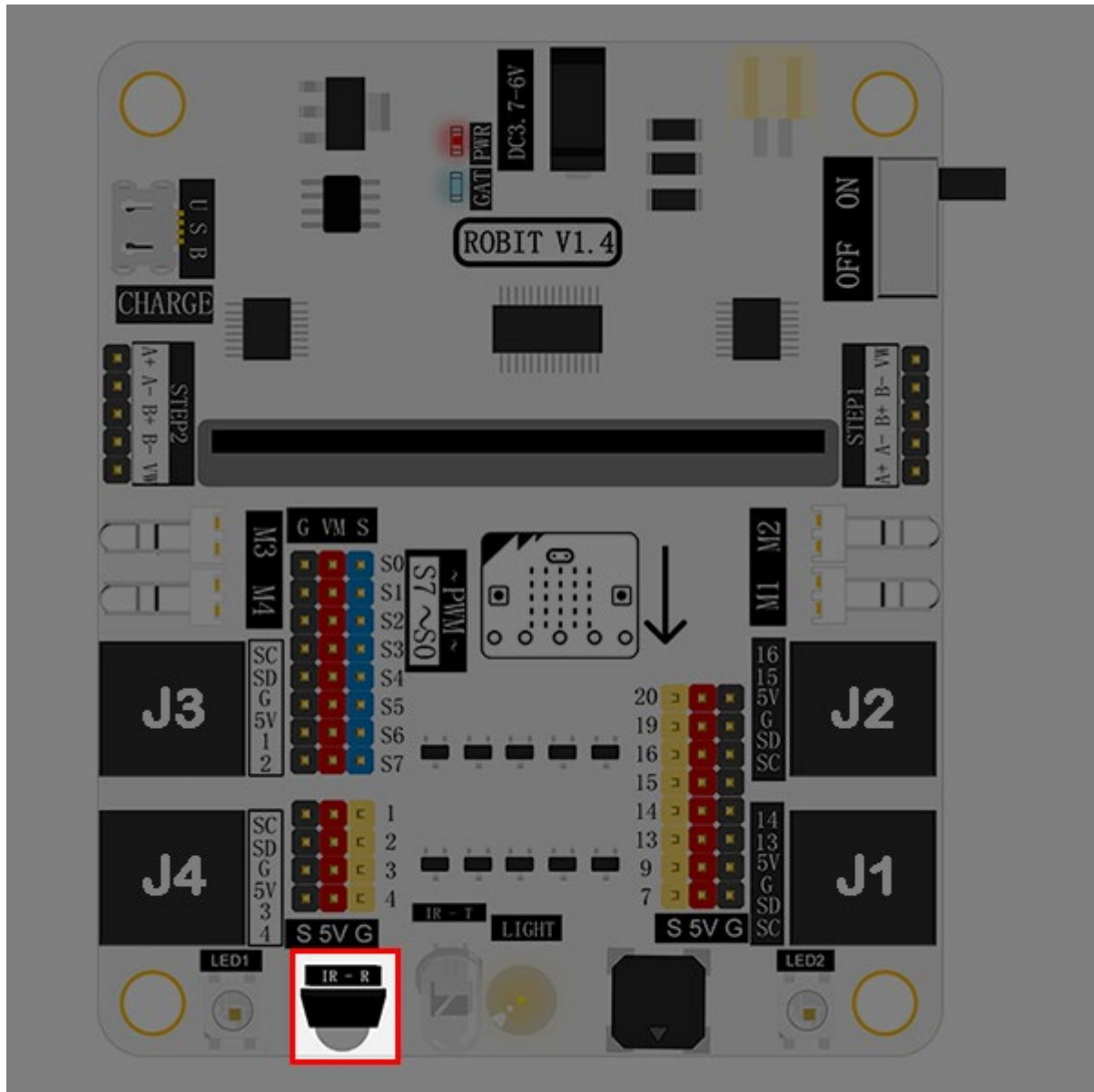
The light sensor onboard is connected to the P10 port on micro:bit.

Infrared Emitting Diode



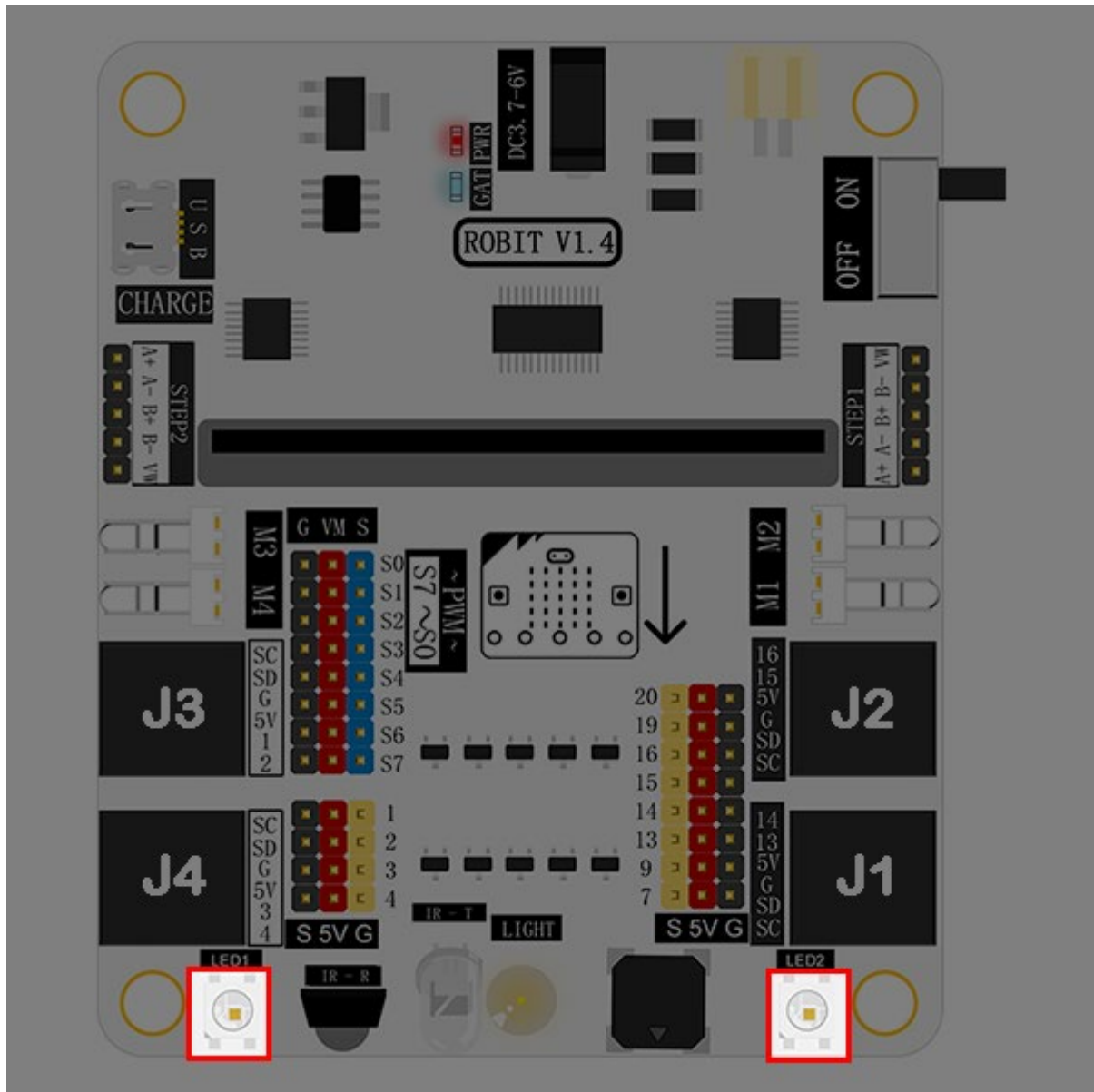
This infrared emitting diode is connected to the P6 port on micro:bit.

Infrared Receiving Diode



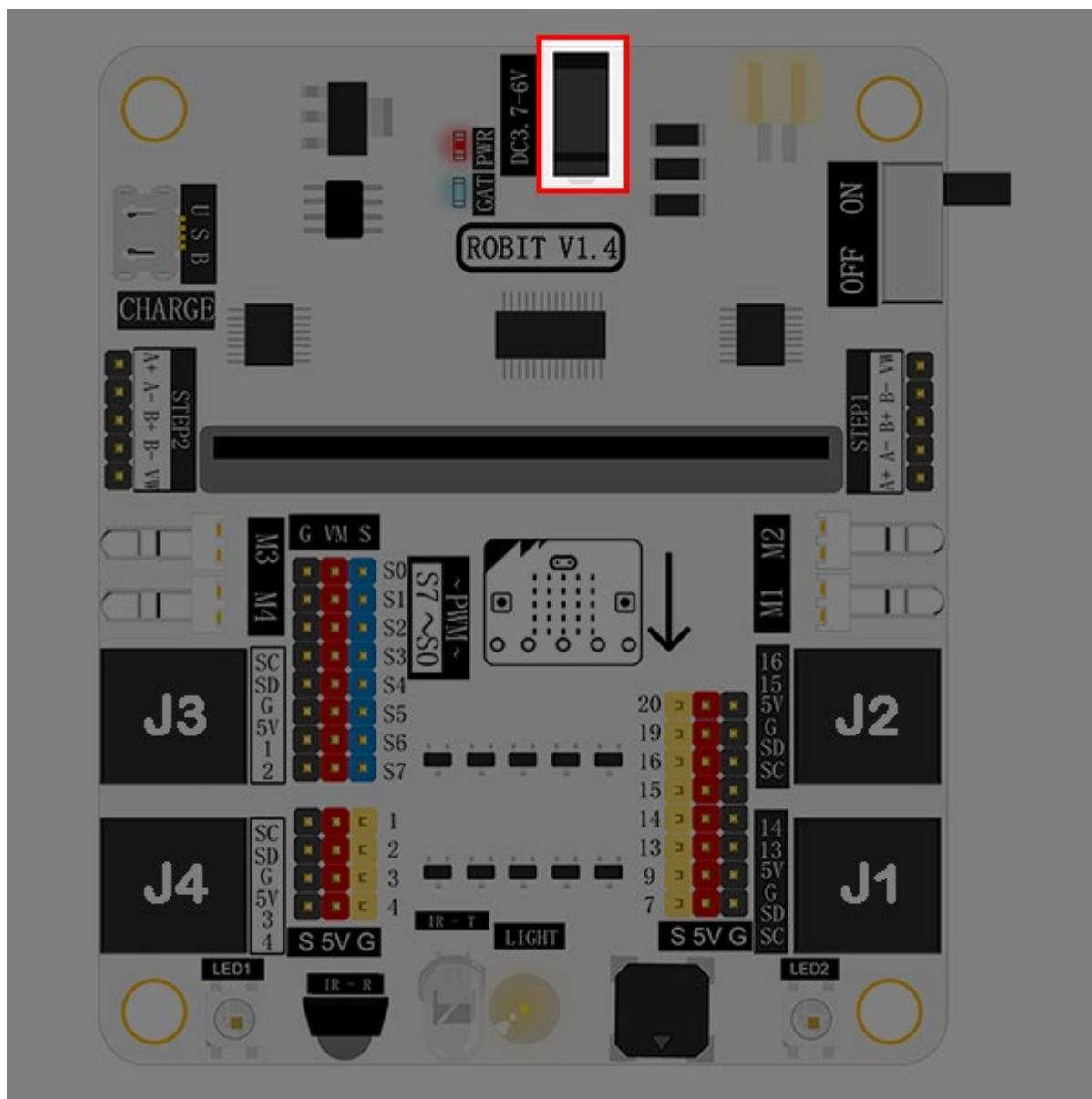
This infrared receiving diode is connected to the P8 port on micro:bit.

Rainbow LED



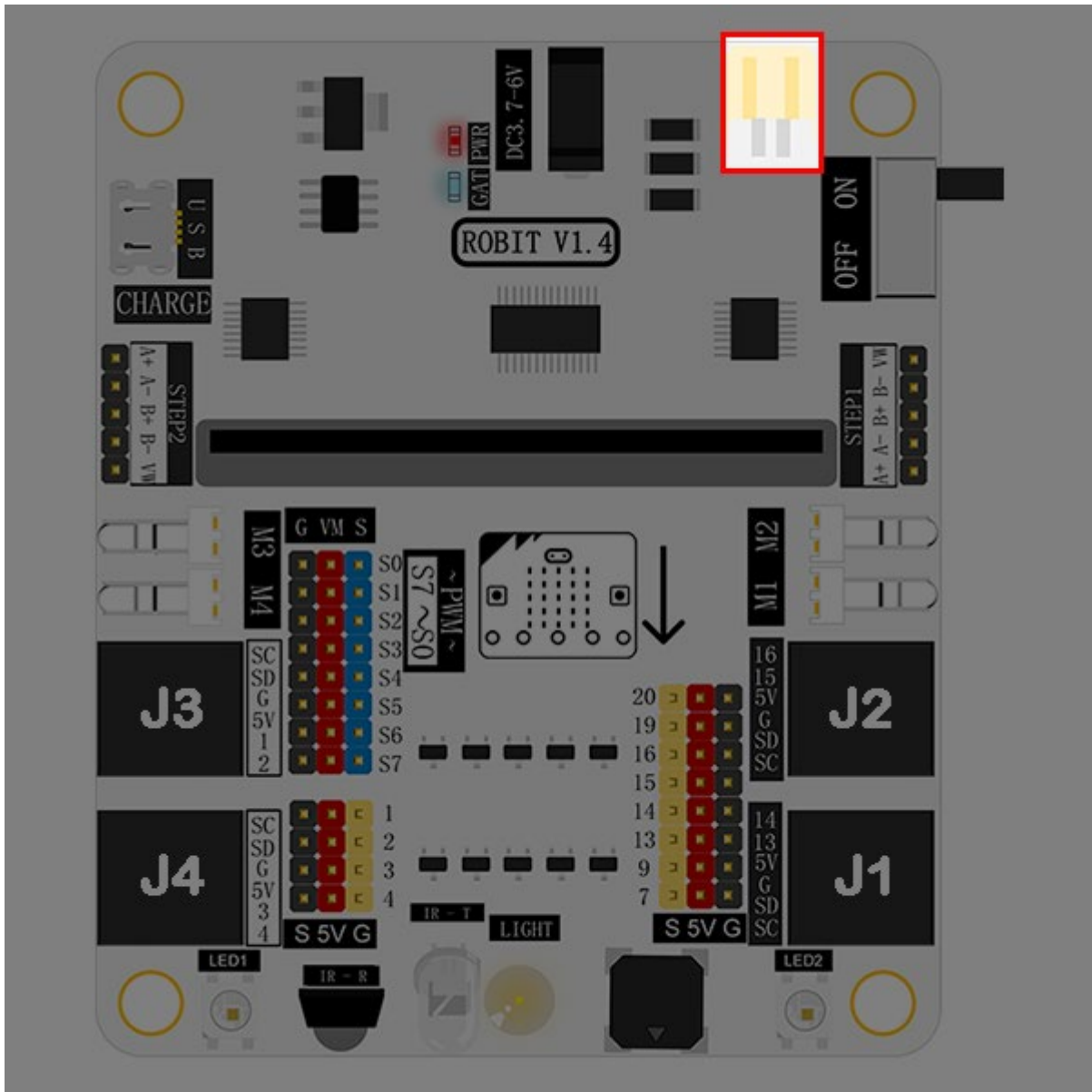
Two rainbow LED beads are connected to the P12 port on micro:bit.

DC Power Connector



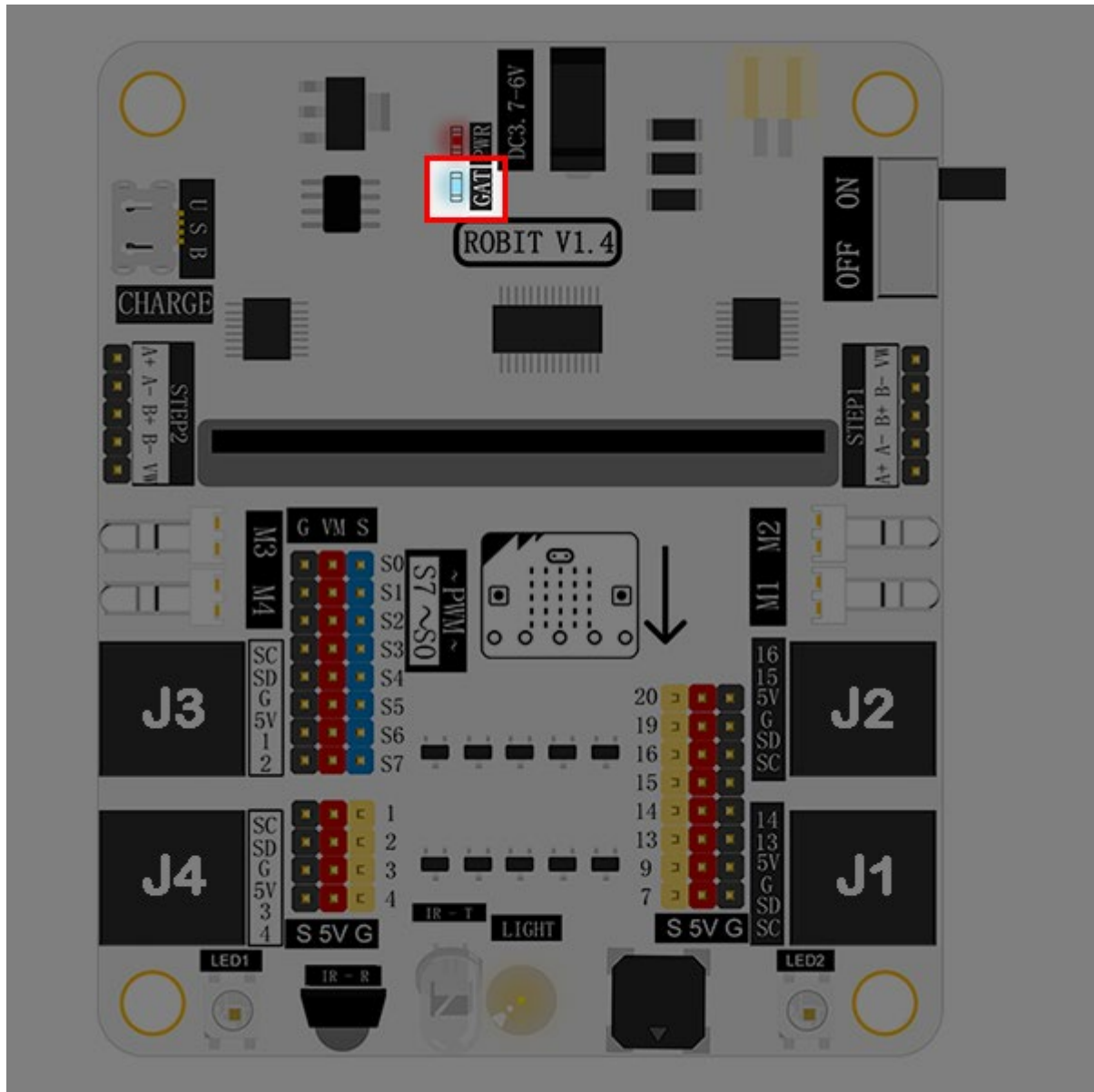
DC power connector supports 3.7V~4.2V DC power. It is usually connected to a battery holder with 4 AAA batteries.

Li-battery Connector



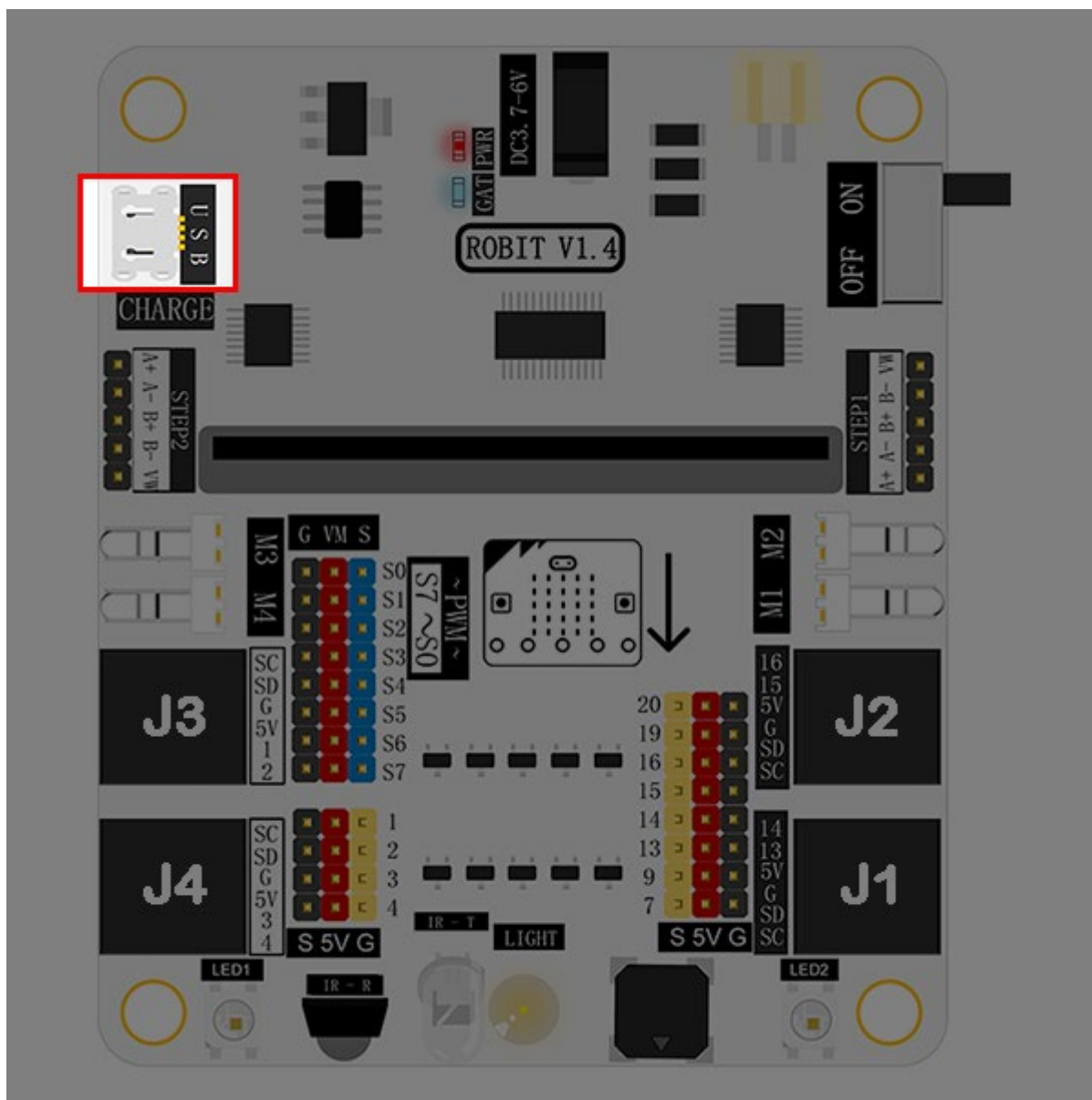
Li-battery connector supports 3.7V~4.2V li-battery.

Li-battery Indicator



This indicator tells you battery power information. It is in blinking status. Blink once means 1 grid of power. And the full power has 4 grids. That means it will blink 4 times when the battery power is full.

USB Connector



This connector is only used to charge li-battery. It doesn't support data transmit and its charging current is 500mA.