Servo Controller 12 Bit PWM Controller PCA9685 Servo Driver 16 Channel For Arduino

Product Description

1. PCA9685 chip was wrapped in the middle of the small plate

2. Power input terminals

3. Green power light

4. In four groups of 3 pin connector convenient you an insert 16 servo motor, servo motor plug slightly wider than 0.1 ", so you can put 4 to 0.1 "joint)

5. Input reverse polarity protection in a patch panel cascade design
V + online placed a large capacitance (in some cases you will need) peripheral input voltage depends on the 10 largest v1000uf capacitance

6. All PWM output line put a 220 ohm resistor to protect them, and can be easily drive LEDs.

Description:

1. Using only two pins, control 16 free-running PWM outputs! You can even chain up 62 breakouts to control up to 992 PWM outputs.

2. It means an i2c-controlled PWM driver with a built in clock.
That means that, unlike the TLC5940 family, you do not need to continuously send it signal tying up your microcontroller, its completely free running!

3. It is 5V compliant, which means you can control it from a 3.3V microcontroller and still safely drive up to 6V outputs (this is good for when you want to control white or blue LEDs with 3.4 forward voltages);

4. 6 address select pins so you can wire up to 62 of these on a single i2c bus, a total of 992 outputs – that's a lot of servos or LEDs;

5. Adjustable frequency PWM up to about 1.6 KHz;

6. 12-bit resolution for each output – for servos, that means about 4us resolution at 60Hz update rate;

7. Configurable push-pull or open-drain output;

8. Output enable pin to quickly disable all the outputs.

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1pc X servo control board