- **16 channels:** The PCA9685 can control up to 16 servos simultaneously.
- **I2C interface:** The PCA9685 is controlled using the I2C bus, which makes it easy to interface with microcontrollers such as the Arduino.
- **PWM output:** The PCA9685 can output PWM signals with a frequency of up to 250 kHz.
- **Resolution:** The PCA9685 has a resolution of 12 bits, which allows for very precise control of the servos.
- **Built-in oscillator:** The PCA9685 has a built-in oscillator, which means that it does not require an external clock source.
- **Low power consumption:** The PCA9685 consumes very little power, making it ideal for battery-powered applications.

The PCA9685 is a versatile and powerful servo driver that can be used in a wide variety of applications. It is a popular choice for robotics, home automation, and other projects that require precise control of servos.

Here are some additional details about the main properties of a PCA9685 16 Kanal I2C PWM Servo Driver:

- **16 channels:** The PCA9685 can control up to 16 servos simultaneously. This makes it ideal for projects that require a large number of servos, such as a robotic arm or a quadcopter.
- **I2C interface:** The PCA9685 is controlled using the I2C bus, which is a standard communication protocol that is used by many microcontrollers. This makes it easy to interface the PCA9685 with a wide variety of devices.
- **PWM output:** The PCA9685 can output PWM signals with a frequency of up to 250 kHz. This allows for very precise control of the servos. For example, the PCA9685 can be used