

Servo used: Tower pro Micro Servo SG 90.

Specifications:

Weight: 9g

Small torque: 1.8 kg/cm (4.8V)

Operating Speed: 0.1 Sec/ 60 <sup>degree</sup> ~~per~~ (4.8V)

Operating voltage: 4.8V

Servo driver: PCA 9685

VCC  $\Rightarrow$  3-5V max

V+  $\Rightarrow$  To drive servos! Board doesn't draw power from this. Should provide 5-6V DC if you are using ~~Servo~~ servos. If you have to you can go higher to 12V DC.

OE  $\Rightarrow$  Output enable pin.  $\rightarrow$  low  $\rightarrow$  all pins are enabled.  
 $\rightarrow$  high  $\rightarrow$  all pins are disabled.

$\Rightarrow$  Max current per pin is 25mA.

$\rightarrow$  Each PWM pin runs completely independently but must have the same PWM frequency.