36217-MP

Breakout Driver board for 3 wire servos.

Note: Board requires control Input from a Arduino or other microcontroller that you program

On-board PCA9685 dedicated controller provides 16-Channels of 12-bit PWM to drive all 16 channels with no additional microcontroller processing overhead.
6 address solder jumpers
End-to-end feed through of CPU Signals
Cascade up to 62 boards (992 servos.)
Green LED Power Indicator
Vcc: 3-5V for connection to controller power and provides 3-5V to SCL/SDA pullups.
V+ & GND Terminal block (12V Max) for Servos
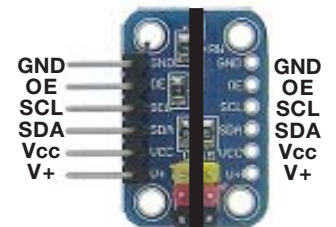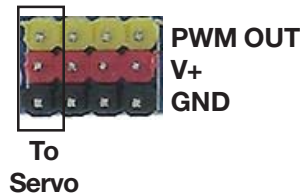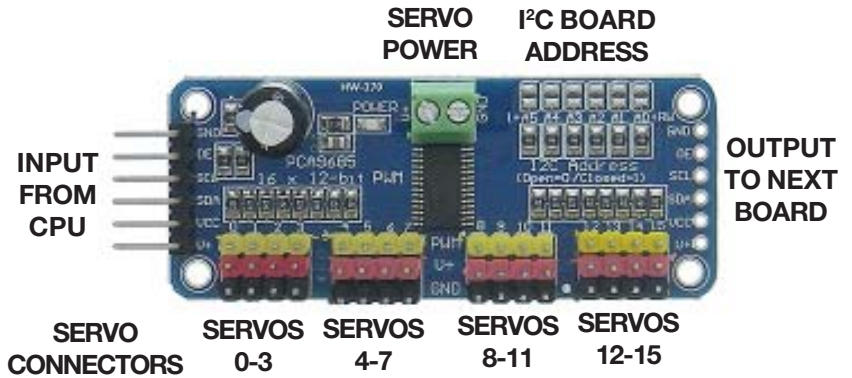**(Do Not Connect 12V to Vcc pins)**
0.1" pitch headers for servo connections.
0.1" pitch holes/header for cacading boards
Output Enable input to disable all outputs. Low (0)+ servos are enabled (low by default). Each Output runs independently but all have the same PWM frequency.
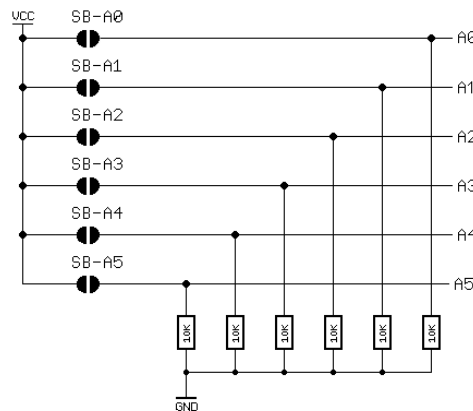Max current: 25mA/Output
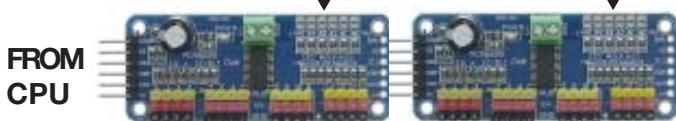**L:** 2-7/16" **W:** 1" **H:** 11/16" **WT:** .02

SERVO POWER
I²C BOARD ADDRESS

INPUT FROM CPU

OUTPUT TO NEXT BOARD

SERVO CONNECTORS
SERVOS 0-3
SERVOS 4-7
SERVOS 8-11
SERVOS 12-15

PWM OUT
V+
GND

To Servo

GND	GND
OE	OE
SCL	SCL
SDA	SDA
Vcc	Vcc
V+	V+

CPU SIGNALS FEEDTHRU

Solder Bridges for Addressing

Each Board needs different Address

Address Solder Bridges

FROM CPU

OPEN="0"
BRIDGED= "1"

VCC
SB-A0 — A0
SB-A1 — A1
SB-A2 — A2
SB-A3 — A3
SB-A4 — A4
SB-A5 — A5
10K 10K 10K 10K 10K 10K
GND

Address Pins on PCA9685

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