

Carrier board for CM4

Servo Controller

Power supply: 5V (Pi connector) OR 6V~12V (VIN terminal) - JST-XH 3-pin connection

Servo voltage: 5V

Logic voltage: 3.3V

Driver: PCA9685

Control interface: I2C

Camera connection

SD card Connection

USB Port

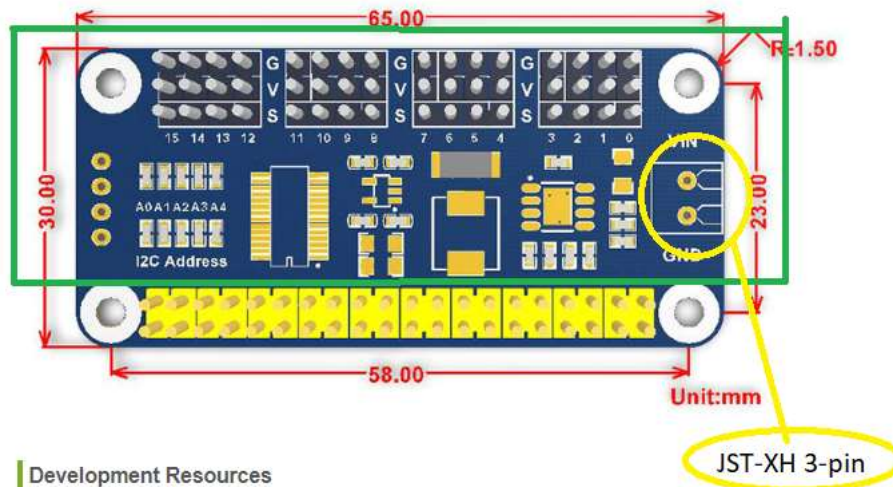
USB-C additional power input along with the battery.

Battery gauge

Hirose connector for the CM4 board.

The implementation of the PCA9685 should mimic the waveshare hat for the raspberry pi 4 found here:

<https://www.waveshare.com/product/raspberry-pi/hats/motors-relays/servo-driver-hat.htm>



Data sheet: https://www.waveshare.com/wiki/Servo_Driver_HAT

Schematic: https://files.waveshare.com/upload/a/a2/Servo_Driver_HAT_Schematic_.pdf

I do not want all the connections that exist on the board below. the below board is linked for roughly footprint size I am looking,

Similar to the board size and orientation I am looking for however, I would need mount holes so a little sider is ok. https://www.waveshare.com/product/raspberry-pi/boards-kits/compute-module-4-cat/cm4-nano-c.htm?_SID=U

datasheet: <https://www.waveshare.com/wiki/CM4-NANO-C>

schematic: <https://files.waveshare.com/upload/d/de/CM4-NANO-C-SCH.pdf>