

The power of Pixhawk®4 in a compact form

Product Features

- Half the footprint of the Pixhawk® 4
- The same FMU processor and memory resources as the Pixhawk 4
- Aluminum casing for great thermal performance
- Easy to connect to commercial ESCs
- The latest sensor technology from Bosch® and InvenSense®
- Redundant IMUs for reliable performance
- NuttX real-time operating system
- Pre-installed with the most recent PX4 firmware



The *Pixhawk®* 4 Mini autopilot is designed for engineers and hobbyists who are looking to tap into the power of *Pixhawk* 4 but are working with smaller drones. *Pixhawk* 4 Mini takes the FMU processor and memory resources from the *Pixhawk* 4 while eliminating normally unused interfaces. This allows the *Pixhawk* 4 Mini to be small enough to fit in a 250mm racer drone. The *Pixhawk* 4 Mini is easy to install; the 2.54mm (0.1in) pitch connector makes it easier to connect the 8 PWM outputs to commercially available ESCs.

Pixhawk 4 Mini was designed and developed in collaboration with Holybro[®] and Auterion[®]. It is based on the Pixhawk FMUv5 design standard and is optimized to run PX4 flight control software.



Technical Specifications

FMU Processor: STM32F765

 32 Bit Arm® Cortex®-M7, 216MHz, 2MB memory, 512KB RAM

On-board sensors

Accel/Gyro: ICM-20689Accel/Gyro: BMI055

- Mag: IST8310

- Barometer: MS5611

 GPS: ublox Neo-M8N GPS/GLONASS receiver; integrated magnetometer IST8310

Interfaces

• 8 PWM servo outputs

- 4 dedicated PWM/Capture outputs
- Dedicated R/C input for CPPM
- Dedicated R/C input for Spektrum / DSM and S.Bus with analog / PWM RSSI input
- 3 general purpose serial ports
 - 1 with full flow control
 - 1 with a separate 1A current limit
- 2 I2C ports
- 3 SPI buses
 - 1 internal high speed SPI sensor bus with 4 chip selects and 6 DRDYs
 - 1 internal low noise SPI bus dedicated for Barometer with 2 chip selects, no DRDYs
 - 1 internal SPI bus dedicated for FRAM
 - Supports dedicated SPI calibration FLASH located on sensor module
- 1 CANBuses for CAN ESC
 - CANBus has individual silent controls or ESC RX-MUX control
- Analog inputs for voltage / current of battery
- 1 additional analog inputs

Electrical Data

Voltage Ratings

Power Brick Input: 4.75~5.5VUSB Power Input: 4.75~5.25V

Servo Rail Input: 0~24V

Max current sensing: 120A

Mechanical Data

• Dimensions: 38x55x15.5mm

Weight: 37.2g

Environmental Data, Quality & Reliability

Operating temp. -40~85 °C

• Storage temp. -40~85℃

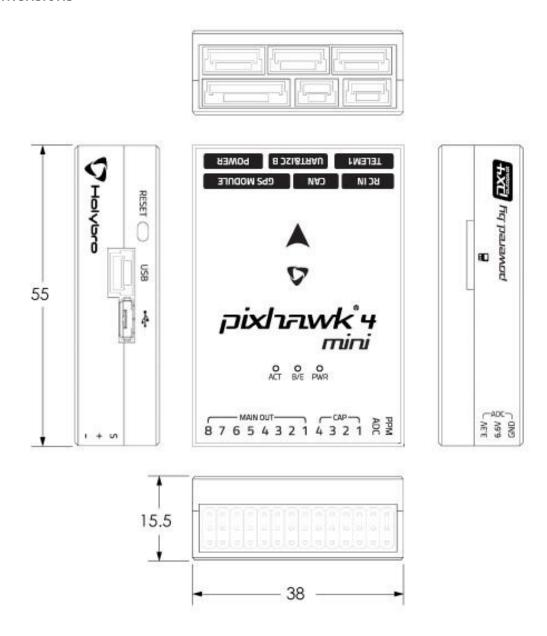
CE

FCC

RoHS compliant (lead-free)



Dimensions



DIMENSIONS IN MILLIMETERS

For more information visit:

www.dronecode.org www.pixhawk.org

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