

Navio2

Autopilot HAT for Raspberry Pi powered by ArduPilot and ROS

Turn your Raspberry Pi into a drone controller by using the might of sensors and controllers on board

GNSS receiver tracks GPS, GLONASS, Beidou, Galileo and SBAS satellites. External antenna with MCX connector

Dual IMU accelerometers, gyroscopes and magnetometers for orientation and motion sensing

RC I/O co-processor accepts PPM/SBUS input and provides 14 PWM output channels for motors and servos

High resolution barometer senses altitude with 10 cm resolution

Extension ports exposed ADC, I2C and UART interfaces for sensors and radios

Triple redundant power supply with overvoltage protection and power module port for voltage and current sensing

Navio2 package includes:

- Navio2
- Connector for RPi
- 4x spacers
- 8x M2.5 screws

Specifications:

Mechanical

Dimensions 55x65 mm

Weight 23 g

Operating t^o-40...+85 °C

Electrical

Supply voltage 4.75-5.25 V

Power supply Power module, servo rail, USB

Average current consumption <150 mA

Ports

Power module

UART

I2C

ADC

12 PWM servo outputs

PPM/S.Bus input

ICs

MPU9250 9DOF IMU

LSM9DS1 9DOF IMU

MS5611 barometer

U-blox M8N GLONASS/GPS/Beidou (antenna connector type MCX)

Cortex-M3 RC I/O co-processor

RGB LED