

pixhawk[®] 4

Technical specifications

- Main FMU Processor: STM32F765
 - 32 Bit Arm[®] Cortex[®]-M7, 216MHz, 2MB memory, 512KB RAM
- IO Processor: STM32F100
 - 32 Bit Arm[®] Cortex[®]-M3, 24MHz, 8KB SRAM
- On-board sensors
 - Accel/Gyro: ICM-20689
 - Accel/Gyro: BMI055
 - Mag: IST8310
 - Barometer: MS5611
- GPS: ublox Neo-M8N GPS/GLONASS receiver; integrated magnetometer IST8310

Electrical data

Voltage Ratings:

- Power module output: 4.9~5.5V
- Max input voltage: 6V
- Max current sensing: 120A
- USB Power Input: 4.75~5.25V
- Servo Rail Input: 0~36V

Mechanical data

- Dimensions: 44x84x12mm
- Weight: 15.8g

Interfaces

- 8-16 PWM servo outputs (8 from IO, 8 from FMU)
- 3 dedicated PWM/Capture inputs on FMU
- Dedicated R/C input for CPPM
- Dedicated R/C input for Spektrum / DSM and S.Bus with analog / PWM RSSI input
- Dedicated S.Bus servo output
- 5 general purpose serial ports
 - 2 with full flow control
 - 1 with separate 1.5A current limit
- 3 I2C ports
- 4 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 EEPROM located on sensor module
 - 1 external SPI buses
- Up to 2 CANBuses for dual CAN with serial ESC
 - Each CANBus has individual silent controls or ESC RX-MUX control
- Analog inputs for voltage / current of 2 batteries
- 2 additional analog inputs

Environmental data, quality & reliability

- Operating temp. ~40~85C
- Storage temp. -40~85C
- CE
- FCC
- RoHS compliant (lead-free)

For more information visit:

www.dronecode.org
www.pixhawk.org

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