DYNAMIC SOLUTIONS

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# Pixhawk 2.4.8 PX4 32 Bit Flight Controller Kit



***Features:***

The Pixhawk 2.4.8 is a 32-bit flight controller built on an STM32F427 Cortex M4 with FPU (168MHz, 2MB Flash, 256KB RAM) and an STM32F103 failsafe co-processor, with L3GD20, LSM303D and MPU6000 inertial sensors and an MS5611 barometer. It provides 8 main and 6 aux PWM outputs, 5 UARTs, 2 CAN, I2C, SPI, ADC inputs, PPM / SBUS / DSM receiver inputs and Micro SD logging. It runs ArduPilot or PX4 and is configured through Mission Planner or QGroundControl over Micro USB or telemetry.

| Specifications | |
|---|---|
| **Main Processor** | 32-bit STM32F427 Cortex M4 core with FPU |
| **Clock Speed** | 168MHz |
| **Flash** | 2MB |
| **RAM** | 256KB |
| **Co-Processor** | 32-bit STM32F103 failsafe co-processor |
| **Gyroscope** | L3GD20 3-axis 16-bit |
| **Accelerometer / Magnetometer** | LSM303D 14-bit |
| **Accelerometer / Gyroscope** | MPU6000 |
| **Barometer** | MS5611 |
| **PWM Output** | 8 OneShot / PWM outputs (configurable) |
| **Aux Output** | 6 PWM outputs (configurable) |
| **UART** | 5 (1 high-voltage compatible, 2 with hardware flow control) |
| **CAN** | 2 |
| **Receiver Input** | PPM, SBUS in / out, DSM / DSM-X Spektrum satellite |
| **RSSI Input** | PWM or voltage |
| **Other Interfaces** | I2C, SPI, 3.3V ADC, 6.6V ADC |
| **USB** | External Micro USB |
| **Storage** | Micro SD card slot |
| **Power Module Input Voltage** | 2-6S (power module not included) |
| **BEC Input Voltage** | 5.3V +/- 0.2V |
| **USB Input Voltage** | 5V +/- 0.3V |
| **Firmware** | ArduPilot, PX4 |
| **Ground Control Software** | Mission Planner, QGroundControl |
| **Telemetry Options** | SiK radio, Bluetooth, WiFi, Micro USB (modules not included) |
| **Dimensions** | 81.5 x 50 x 15.5mm |
| **Usage** | Multicopters (3-8 rotors), planes, helicopters, rovers, boats, submarines, robots and antenna trackers |

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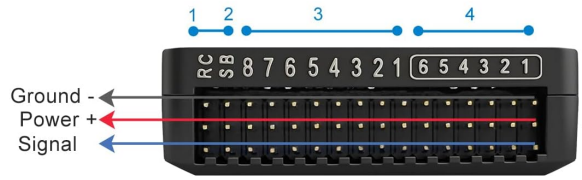
## Product Dimensions:




## Interfaces:




1. Spektrum DSM Receiver
2. Telemetry (OSD port 2)
3. Telemetry (OSD port 1)
4. USB
5. SPI (Serial Peripheral Interface)
6. Power Module
7. Safety Switch Button
8. Buzzer
9. Serial
10. GPS Module
11. CAN (Controller Area Network)
12. I2C Splitter
13. Analog to Digital Converter 6.6V
14. Analog to Digital Converter 3.3V
15. LED Indicator




1. Radio Control Receiver Input
2. SBUS Output
3. Main Output (Motors)
4. Auxiliary Output (eg. Servos)




1. Input / Output Reset
2. SD Card
3. Flight Management Reset
4. Micro-USB Port