

PX4^{2.4.8} newly released

Open Source Autopilot For Drone Developers

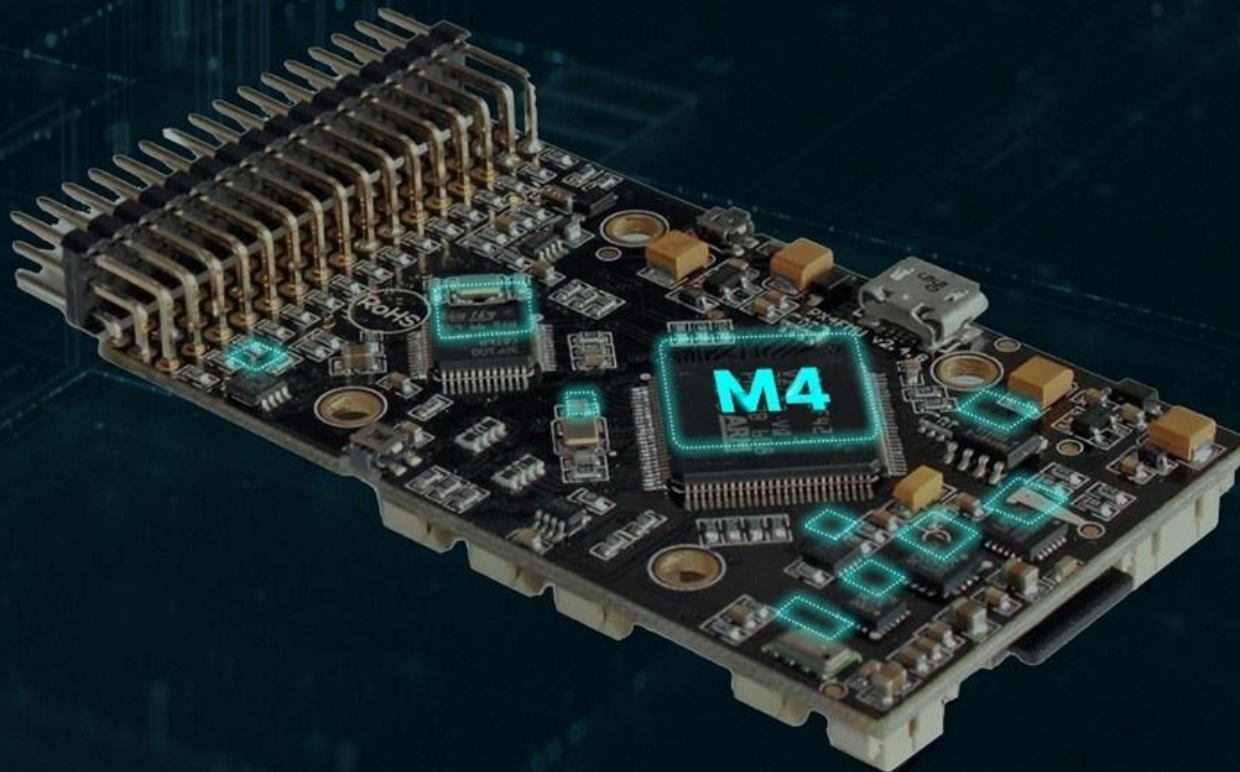


Microprocessor:

- ◆ 32-bit STM32F427 Cortex M4 core with FPU
- ◆ 168 MHz/256 KB RAM/2 MB Flash
- ◆ The 32-bit STM32F103 failsafe co-processor

Sensors:

- ◆ ST Micro L3GD20 3-axis 16-bit gyroscope
- ◆ ST Micro LSM303D 3-axis 14-bit accelerometer / magnetometer
- ◆ Invensense MPU 6000 3-axis accelerometer/gyroscope
- ◆ MEAS MS5611 barometer



Interfaces



- 1 Spektrum DSM receiver
- 2 Telemetry(on-screen display)
- 3 Telemetry(radio telemetry)
- 4 USB
- 5 SPI(serial peripheral interface)bus
- 6 Power module
- 7 Safety switch button
- 8 Buzzer
- 9 Serial
- 10 GPS module
- 11 CAN(controller area network)bus
- 12 PC splitter or compass module
- 13 Analog to digital converter 6.6V
- 14 Analog to digital converter 3.3V
- 15 LED indicator



- 1 Radio control receiver input
- 2 S.Bus output
- 3 Main outputs
- 4 Auxiliary outputs

1 2 3 4

ground
power
signal



SD card
(4G TF card has been inserted into pixhawk)

Micro-USB port

Flight mangement reset button

Features



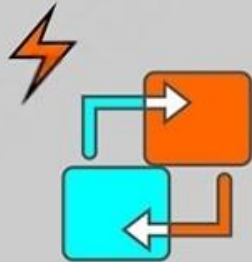
Advanced 32 bit ARM Cortex® M4
Processor running NuttX RTOS



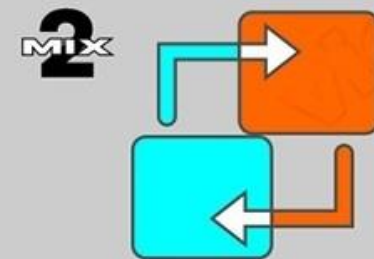
14 PWM/servo outputs (8 with failsafe
and manual override, 6 auxiliaries, high-
power compatible)

UART I2C
CAN

Abundant connectivity options for
additional peripherals (UART, I2C, CAN)



Integrated backup system for in-flight recovery and manual override with a dedicated
processor and stand-alone power supply

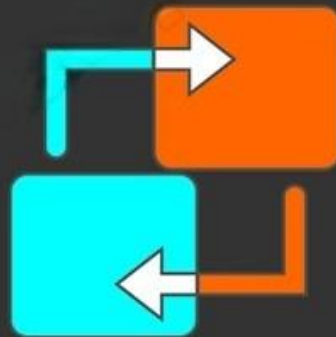


The backup system integrates mixing,
providing consistent autopilot and
manual override mixing modes

Power System

- Ideal diode controller with automatic failover

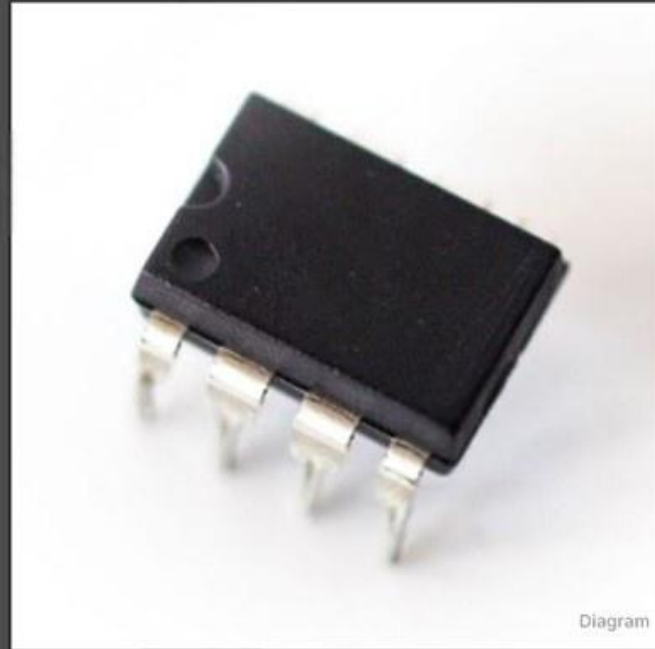
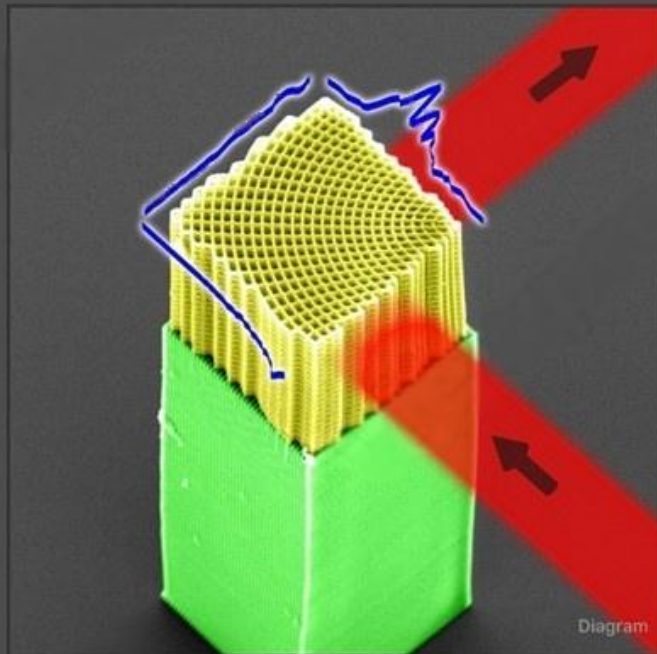
Auto



- Servo rail high-power (7V) and high-current ready



- All peripheral outputs over-current protected,
all inputs ESD protected



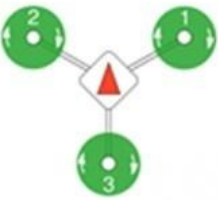
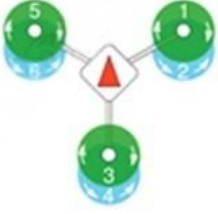

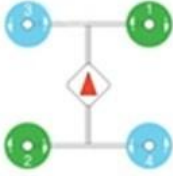














Dimensions

Weight:

38g



Supported models

 <p>3 axis copter</p>	 <p>Coaxial 3 axis copter</p>	 <p>4 axis copter</p>	 <p>4 axis H-copter</p>	 <p>Coaxial 4 axis copter</p>
 <p>Hexacopter</p>	 <p>Coaxial hexacopter</p>	 <p>Octocopter</p>	 <p>Helicopter</p>	 <p>Coaxial helicopter</p>
 <p>VTOL fixed wing</p>	 <p>VTOL V-tail fixed wing</p>	 <p>Delta wing</p>	 <p>VTOL</p>	 <p>2 axis delta wing VTOL</p>
 <p>Model car</p>	 <p>Model ship</p>	 <p>underwater robot</p>	<p>etc.</p>	

Packing list

Px4 * 1	Buzzer * 1	Safety button * 1	4GB SD card and reader * 1
PPM encoder * 1	i2C extender * 1	i2C cable/current meter cable/PPM/SBUS cable * 1	



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