

Quadcopter Drone Project - Component Overview

ReadyToSky 30A ESCs

Electronic Speed Controllers rated for 30A and compatible with 2-6S LiPo batteries. These OPTO ESCs are used to control brushless motors, with 4 units included for quadcopter configuration.



YoungRC F450 Frame

Durable F450 450mm quadcopter frame with integrated landing skid gear. Ideal for beginner to intermediate drone builds.



Radiolink T8S Transmitter + R8EF Receiver

8-channel 2.4GHz RC transmitter and R8EF receiver used to control drone functions remotely. Lightweight and compact with built-in battery.



Hiyiton V6 Balance Charger

Multi-chemistry battery charger supporting 1S–6S LiPo, Li-ion, NiMH, and more.
Features balance charging to extend battery life.



RC Battery Depot 3S 2200mAh LiPo

High-discharge (30C) 11.1V LiPo battery with XT60 connector. Powers the ESCs and motors during flight.



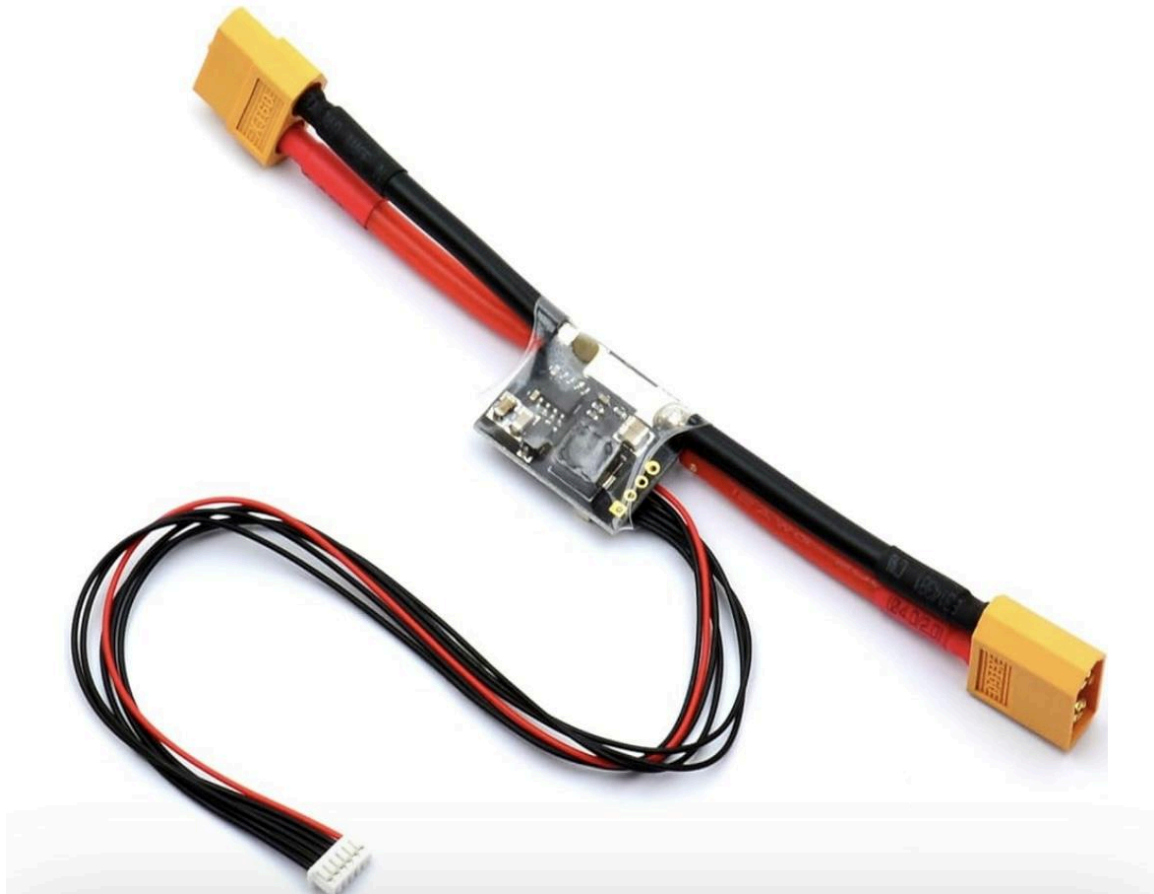
Pixhawk PX4 Flight Controller

Advanced flight controller supporting multiple modes of autonomous and manual flight. Compatible with GPS, telemetry, and safety modules.



5.3V Power Module with XT60

Power distribution module for Pixhawk. Measures voltage and current while providing 5.3V regulated power to the flight controller.



ReadyToSky 2212 920KV Motors

Brushless motors (CW & CCW) rated for 920KV. Efficient and reliable for quadcopters like the F450.



GEMFAN 9443 Propellers

4 pieces of 9.4 x 4.3 inch propellers compatible with 2212 motors. Lightweight and aerodynamic.

