Parrot Bebop Drone: First Level Teardown and Cost Analysis

Description:
Parrot successfully introduced this new type of drone in 2014, since then it has been a commercial hit. The Bebop drone is a small quadcopter, measuring 33x38x3.6cm and weighting just 420g. It records stable 1080p video in a 180° filed thanks to a 14 megapixel fisheye camera. The drone is safe to fly indoors and is capable of performing aerial rolls and flips.

Parrot equipped it with their own ASIC chip, the Parrot P7 dual-core CPU, and with a quad-core GPU and 8 GB of Flash Memory. Also, the drone features a GNSS (GPS + GLONASS) system and 2 dual-band Wi-Fi antennas that allows it to handle both 2.4 GHz and 5 GHz MIMO frequencies.

On the sensors side, a 3-axis magnetometer and a 6-axis IMU are used for inertial measurements, completed by a pressure sensor, an ultrasound sensor and an optical-flow sensor for environmental sensing. All are fixed on a magnesium shelf that acts as a radiator and electromagnetic shielding.

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