



All-in-One Mobile Controller for Commercial Drones & Robotics

The SkyHopper ControlAir is an all-in-one mini-controller device, specifically designed for commercial & industrial drones and robotics.

The SkyHopper ControlAir enables the controlling of a drone or robot as well as the transmitting or viewing of video and data while operating in air & ground missions.

SkyHopper ControlAir Key Features:

- Handheld device for various drone applications
- Integrated Application Software
- Long-range Line of Sight transmission
- All-weather IP65 Dust and Water-Resistant Design
- High-end Validated Encryption & Security
- Real-time video streaming with on-screen display of video & data
- Dual RF antenna & GPS Antenna
- GPS location base services

SkyHopper also provides a full range of support services in an effort to optimize the use of the product, taking commercial and industrial drones to new heights. The SkyHopper Support Team is available to answer questions or assist at any given time, to guarantee all product benefits are maximized.



Product Highlights:

- Extended Ruggedized Grade
- 7" Windows Tablet with Intel 6th Generation core M5 Processor
- Powered by Windows 10 Professional
- Daylight readable
- Light & Compact
- User-replaceable battery
- Configurable Transceiver unit with joysticks & buttons



Radio & Modem Specifications

Range	Up to 5km / 3.1 miles per hop (LOS, uninterrupted conditions)
Throughput	Configurable from 1.6-6 Mbps For extended throughput, other solutions avail.
Network Topologies	Point-to-Point Point-to-Multipoint
Sensitivity	Max – 101dBm
Diversity support	MIMO 2x2 Tx & Rx diversity
Transmission Technology	OFDM, TDD
Encryption	128 AES – Standard Package 256 AES and other options also available for purchase (custom export control may apply)
Frequencies	2.4 GHz (ISM) & 5.8 GHz (ISM) Other frequencies available upon request
External Interface	USB 3.0 and USB 2.0
Human Interface	2 joysticks; 4 buttons – Standard Version Sliders and additional buttons available in Pro version User configurable
Ethernet	Full Ethernet Protocol 802.3 (TCP/IP, UDP, and others)
Antenna Connector	3 x SMA: 2 x RF, 1 x GPS

Tablet Specifications

Type	7" Toughpad FZ-M1 Panasonic
CPU	Intel 6th Generation core M5
User interface	Windows 10 Professional
Display	7" WXGA 1280 x 800
Complies with all Windows based controlling software; Linux & Android - Optional	

Dimensions (H x W x D) - Standard Version

16 X 28 X 6.5 cm	6.3 X 11 X 2.6"
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Weight – Standard Version

1.7 kg	3.75 lbs.
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Power

W/ Power Supply & Replaceable Battery	External or Direct to Tablet
W/ External Battery	12-19 V DC

Environmental

Grade	Extended Ruggedized
Operating Temperature	Operating -20 to 50°C Storage -50 to 85°C
Humidity	5 to 95% non-condensing
Casing	All-weather IP65 Dust and Water-resistant

Configuration & Management

Unit Monitoring	Web-Based Application
Program Interface	API

SkyHopper ControlAir is Compatible with all SkyHopper units

SkyHopper ControlAir is designed to meet FCC, CE & TELEC standards

This is a preliminary version of the product for early adaptors; specifications are subject to change.

Contact us at: info@skyhopper.biz

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