



## Bi-Directional Data Link for Drones & Robotics

The SkyHopper ONE wireless communication units are specifically designed for drones & robotics, increasing wireless broadcasting solutions for drone activity. By employing leading wireless technologies, the SkyHopper ONE delivers robust communication that supports multiple transmission modes.

### SkyHopper ONE Key Features:

- 2 km line of sight operation
- Non-light-of-sight capabilities, for control in rugged terrain or around structures
- Broadcast and Unicast transmission modes
- High-end data security & encryption with the addition of our proprietary encryption mechanism
- Built-in flexibility to optimize to customer needs
- Lightweight and small form factor



### Product Highlights:

- Superior communication through N-LOS & urban areas using proprietary radio technology that finds its way around obstructions to carry a clear and solid radio signal
- IP Telemetry & Control
- Built-in flexibility in adjusting and optimizing the SkyHopper ONE to changing consumer needs
- MIMO 2X2 Diversity Support
- Universal solution with no integration needed for all IP payloads



Radio & Modem Specifications	
Range	2km/1.2miles (LOS, uninterrupted conditions) For extended range, other solutions available
Throughput	Configurable up to 3 Mbps For extended throughput, other solutions avail.
Network Topologies	Point-to-Point
Modes of Operations	Broadcast, Unicast
Diversity Support	<b>MIMO 2x2</b> , Tx & Rx Diversity
Transmission Technology	OFDM, TDD
Encryption	128 AES
Frequencies	2.4 GHz (ISM) or 5.8 GHz (ISM) For other frequencies, additional solutions are available.

Operating Temperature	
-20 – 45° C (-4 – 113° F)	

Dimensions	(H x W x D) mm	(H x W x D) inch
	26 x 54 x 74	1.0 x 2.1 x 2.9

Weight	Grams	Ounces
	105	3.7

Power	
DC Voltage	7.4 – 24VDC

Interfaces	
Telemetry & Control	Serial RS232
Ethernet	Full Ethernet Protocol 802.3 (TCP/IP, UDP, and others)
Antenna Connector	MMCX (x2)

Configuration & Management	
Unit Monitoring	Web-Based Application
Program Interface	API

For Integrated Video Processing, SkyHopper PRO V available.

Product versions available to accommodate FCC, CE & TELEC standards.