

# Flying Fox™ Wireless Sensor



## SUPPORTS

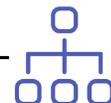
- » **LTE**
- » **WCDMA/UMTS**
- » **CDMA2000**
- » **GSM**
- » **802.11 a/b/g/n**
- » **Bluetooth®**

Flying Fox™ sensors were developed in collaboration with the Naval Research Lab's (NRL) Flying Squirrel\* Program Office and provide unparalleled PASSIVE wireless device detection, identification, and location estimation capability. Our NRL/Epiq team focused on leap-frogging all other cellular handset detection systems; they focus on energy detection alone for detecting handsets without any verification that the detected signal is actually from a cellular device. The Flying Fox demodulates and decodes the initial messages between a handset and tower. When we indicate a phone is active, we are 100% sure.

**Zero False Positives! Period.**



**PC**  
For Remote Monitoring



**PoE+ Network Switch**  
Connects and Powers each Flying Fox Sensor over Cat5e or Cat6a

## KEY SYSTEM FEATURES

- » Detect, Identify, Locate radio transmissions from any cellular, Wi-Fi® and Bluetooth® devices
- » Carrier and band agnostic (works with US and international mobile providers)
- » Advanced cellular processing capability supports 4G (LTE), 3G (UMTS/WCDMA), and 2G (GSM, CDMA2000)
- » Future-proof software-defined radio (SDR) architecture
- » Wi-Fi® capability supports 802.11 a/b/g/n for both 2.4 GHz and 5 GHz bands
- » Integrated self calibration feature for improved geolocation accuracy

\*Flying Squirrel, a DoD wireless discovery and mapping application, is Government Off The Shelf (GOTS) software developed by the Naval Research Laboratory, and is for use by US Government organizations for Official Use Only, including DoD, law enforcement and the Federal community.



Flying Fox sensors operate with either NRL's GOTS Orb-weaver software, or Epiq Solutions' Spotlight™ software. Both versions of software provide unparalleled 24/7 passive monitoring, detection, identification, and location estimation of transmitting

cellular, Bluetooth®, and Wi-Fi® devices. Orb-weaver is optimized for geolocation accuracy, and is available only to the US Government and Law Enforcement personnel. Spotlight is optimized for detection probability and is available to International and Commercial customers and applications.



#### KEY FLYING FOX SENSOR DETAILS

- » Typical cellular detection sensitivity: -95 dBm
- » Single RJ45 ethernet interface supporting IEEE 802.3at (Power over Ethernet) for power and network connectivity
- » Separate SMA interfaces for cellular and Wi-Fi® / Bluetooth® antennas
- » Compact size: 6.5" x 4.2" x 1.5"
- » Typical power consumption: 22W
- » Internal fan for active cooling
- » Passively cooled option available

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