FOXHOUND

Product Sheet

A RUGGED, PORTABLE, & POWER-INDEPENDENT POINTING SYSTEM FOR UAS & MULTI-MISSION GROUND OPERATIONS

FoxHound is a stabilized, weather-resistant antenna platform built for dynamic ground operations. Whether stationary or mobile, it delivers long-range tracking and communications for Unmanned Systems while consolidating multiple components into a single, tool-free, tracking system capable of handling harsh field conditions.

KEY FEATURES

- **Platform & Radio Agnostic:** Variable voltage and data connections allow compatibility with commercially available radios (Silvus, MPU5, etc.).
- **Power Independent:** Two hot-swappable 10–34 VDC inputs with failover and internal BB-2590 battery (8 hrs runtime).
- **System Flexibility:** Supports advanced networking architectures and integration with GPS, SATCOM - enabling consolidated GDT footprints.
- **Supported Frequency Bands:** Compatible with L/S & S/C MIMO radios; upgraded GNSS receiver supports L1, L2, L5 bands.
- **API Integration:** FoxHound API allows for customized integrations into Operator User Interfaces.

OPERATIONAL ADVANTAGES

- **Integrated INS:** Onboard Inertial Navigation System (INS) for dynamic/mobile operational conditions.
- **Rugged, Weatherized:** Withstands rain, 60mph wind loads, and 5G shock for reliable operation in harsh environments.
- **Rapid, Toolless Deployment:** Assembled without tools in under 1 minute; operational in under 4 minutes.
- **Long Range:** Capable of 120+ km link distance in a compact form factor.
- **Web-Based UI:** Simple, operator-focused interface for live tracking, alerts, and workload sharing.
- **Mast Mountable:** Extend range with 7–15m fixed-site telescoping masts.
- **Radome Ready:** Easily adapts to Foxtrot's custom radome for maritime operations.

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SPECIFICATIONS

- **External Power Input:** Two hot-swappable 10-34 VDC inputs with autonomous failover
- **Internal Battery Backup:** User-replaceable internal BB-2590 battery provides up to 8 hours of runtime and automatically charges when external power is applied
- **Internal Managed Ethernet Switch:** Three ports on base of unit and one additional port to radio/payload on PTU head
- **Radio/Payload Interface:** 100 Mbps Ethernet, RS232 Serial, 10 – 48 VDC adjustable, 3 A 100 W output
- **Auxiliary Device Support:** 100 Mbps Ethernet, RS232 Serial, 10 – 48 VDC adjustable, 3 A 100 W output
- **Pan/Tilt Limits:** 360 deg continuous pan, -8 to 90 deg tilt
- **Wind/Shock Limitations:** 60 mph wind load / 5G shock
- **GNSS:** L1 with integrated VectorNav INS receiver
  - **Upgrade:** L1, L2, L5 with NovAtel receiver
- **Frequency Bands, Gain, and Range:**
  - **L/S (MIMO):** 120+ km at 14-18 dBi
  - **S/C (MIMO):** 120+ km at 18-22 dBi
- **Size and Power Requirements:** 15" x 16.5" x 19.5" (INS stowed), 26.5" x 16.5" x 19.5" (INS deployed). 44 Watts typical
- **Operating Temp Range:** –20 °C to +60 °C
- **Weight:** 43 lbs

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Supporting Hardware

MIMO ANTENNAS

Available antennas include L/S bands (14–18 dBi) and S/C bands (18–22 dBi). Other frequency bands and custom antenna configurations available upon request.

GNSS RECEIVERS

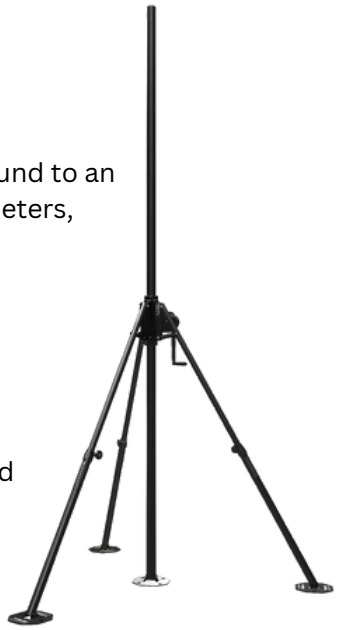
Baseline configuration supports L1 with integrated VectorNav INS receiver. Upgrade to L1, L2, L5 with NovAtel receiver for operations in GPS denied environments.

RADOME COMPATIBILITY

The FoxHound can be modified to fit inside Foxtrot's custom radome for long-term installations and maritime applications.

MAST MOUNTED

Increase range by adapting the FoxHound to an extendable mast reaching from 7-15 meters, ideal for fixed-site operations.



ACCESSORY PORT

The Accessory Port bridges all data received from the primary antenna and radio enabling easy integration of additional capabilities (GPS modules, SATCOM, shared targeting data, etc.)

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