



Hugin & Munin

Tethered Wideband Repeater Drone

Technical Specifications

- ✓ RF signal converts to fiber from ground and back to RF at the drone
- ✓ Instantly connect any radio operating up to 4.2GHz
- ✓ Continuous operation, powered via ground station tether
- ✓ Reduced weight, increased flexibility to change radios and frequencies while drone is in flight
- ✓ Can establish > 100 square miles of voice/data radio coverage within minutes

Capabilities & Uses

- Assist utilities and public safety with network and radio connectivity in the event of system outages
- In areas with poor cellular coverage, deploy the drone to get a signal from nearby cell towers. This connection can then be shared with users via secure Wi-Fi
- In areas with degraded two-way radio coverage, deploy the drone to act as a repeater for that local region. This can restore two-way radio communications for land mobile radio (LMR) users within 100 square miles
- In areas with no connectivity, deploy the drone to provide Wi-Fi coverage to those in the local area within a 1-2 mile radius
- For utilities that have lost advanced metering infrastructure (AMI) or supervisory control and data acquisition (SCADA) coverage at a particular location, deploy the drone to restore coverage to remote devices and master stations



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Hugin & Munin Tethered Wideband Repeater Drone



Instantly Connect Any Radio up to 4.2 GHz

- Continuous Operation – Powered via Ground Station
- Height up to 400 Feet
- Transmit Power up to 25 Watts



Network & Radio Connectivity

Supports any combination of VHF, UHF, Wi-Fi, cellular, private broadband, FirstNet, SATCOM, and user-specific applications/systems



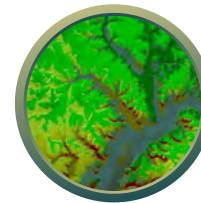
Cellular & Wi-Fi

- Provide secure Wi-Fi for sites needing connectivity
- Extend cellular connectivity to hard to reach areas



Voice/Data Radio Coverage within Minutes

Providing over 100 Sq. Miles of coverage



Land Mobile Radio (LMR)

Restores two-way radio communications



Connect Assets

Connect stranded assets when infrastructure is compromised, including mobile radio, SCADA, AMI, or other applications

