



MGW310

Multi-Project GEODNET and ADS-B Flight Tracking Base Station

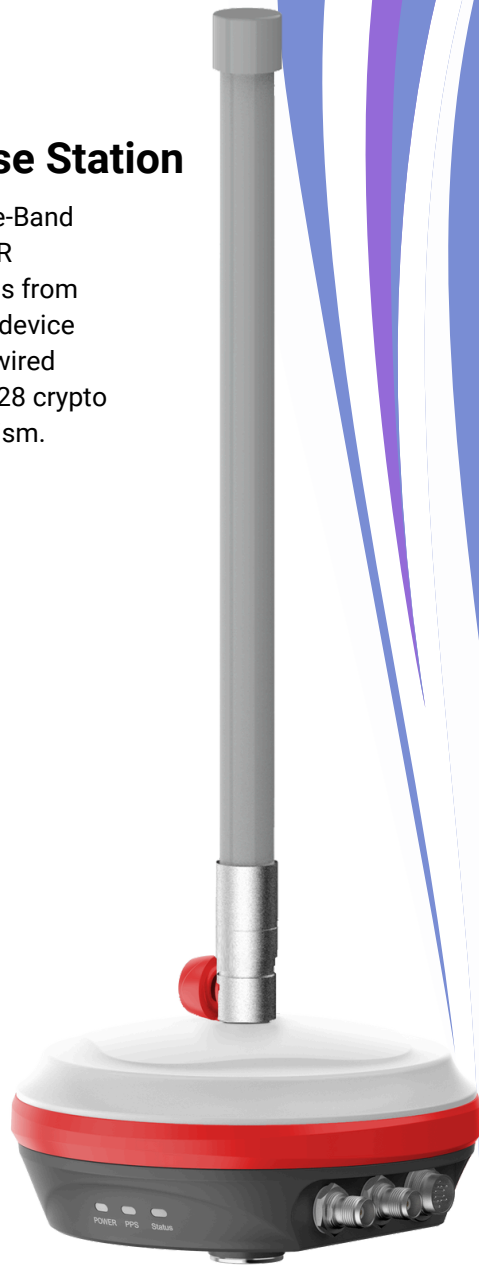
The MGW310 is a user-friendly, ready-to-install Wingbits Flight Tracking Station and Triple-Band GNSS Base Station built on a reliable Software-Defined Radio (SDR) architecture. This SDR subsystem efficiently tracks Automatic Dependent Surveillance-Broadcast (ADS-B) signals from aircraft, ensuring high reliability even at long ranges. The rugged, weatherproof MGW310 device connects to both the Wingbits and GEODNET decentralized networks via built-in Wi-Fi or wired Ethernet. Additionally, it features a self-contained multi-band GNSS module and an AES-128 crypto chip, providing robust proof-of-location capabilities and an effective anti-gaming mechanism.

DEVICE SUMMARY:

- Connect to the GEODNET network and Wingbits network
- Premium all-in-one package weather-proof package is easy to install outdoors
- No software configuration required
- Multiple Internet connectivity options
- Receives on 1090 MHz for ADS-B via an on-board Software Defined Radio (SDR)
- Power Supply supports wide-range of international AC plugs
- Triple-Band GNSS Receiver and RTK Base-station Tracks RealTime Space Weather.
- No RF Emissions from GNSS
- <5.5 W Power Consumption

Specs

ADS-B	1090MHz ADS-B Software Defined Radio > +3dBi Fiberglass Antennae Included ADSB Antennae port for custom antenna installation (sold-separately)
Drone Remote ID	Future Upgrade
AIS	Future Upgrade
GNSS	Multi-Band GPS, GALILEO, BeiDou, GLONASS
Communications	
Ethernet	10/100Base-T (RJ45)
Bluetooth	Class 4.2, Class 1,2 and 3 Transmitter
Wi-Fi	2.4GHz 802.11 b/g/n and 5GHz 802.11ac
4G/LTE	Optional MiniPCle
WebUI	Custom Device Configuration
Firmware Upgrade	Automatic, OTA
Operating System	Linux



Physical & Electrical

Size & Weight	D160mm*H94mm, 520g
Power	12V, <5.5W
Power Supply	120V-240VAC, selectable international plug faceplate

