



HYFIX
SPATIAL INTELLIGENCE

Space Weather Station

APPLICATION SUMMARY:

- Easily Connects to the Global Earth Observation Decentralized Network (GEODNET) and Contribute to #CitizenScience
- Low-Cost GEODNET Station
- Dual-Band GNSS and RTK Base-station Tracks Real-Time Space Weather. No RF Emissions from GNSS.
- <1W Power Consumption
- Easy to Install Roof Mount Antennae
- Optional use as NTRIP Server for RTK Applications



Block Diagram:



1. Install MobileCM™ Base
2. Connect to WiFi
3. GEODNET Blockchain

Specification:

Dual-Band GNSS Receiver	
GNSS Bands	
GPS/QZSS	L1 (1575.42 MHz), L5 (1575.42 MHz)
Galileo	E1 (1575.42 MHz), E5a (1575.42 MHz)
Glonass	L1 (1602.5625 MHz)
BeiDou	B1I (1561.098 MHz), B2a (1176.45 MHz)
IRNSS	L5 (1176.45 MHz)
WiFi NTRIP Server & Gateway	
ESP32-WROOM-32	
WiFi	2.4GHz (802.11 b/g/n)
Bluetooth	Bluetooth 4.2, Class 1,2, and 3 Transmitter
Geodnet Configuration	
WebUI	Easy Server & Wallet Configuration
Data Upload	WiFi
Direct RTCM Output	USB-C
Firmware Upgrade	USB-C & Command Line Utility
Physical & Electrical	
Size & Weight	4.0" x 3.5" x 1.2"; <1lb
Power	<1W, USB-C

Ordering Information:

Model	Description
MGW100	MobileCM™ Space Weather Station Bluetooth, WiFi

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Ready-to-Use GEODNET Base-station:

MobileCM™ includes the base and an easy to mount triple-band GNSS antennae. Also included is a USB-C power cable, two 2.4GHz Bluetooth/WiFi whip antennae. Directly connects to Geodnet: <https://geodnet.com> Zero RF Emissions from GNSS Antennae.



Example of MobileCM™ base station and GNSS antennae

Mines GEOD Token:

The MobileCM™ base-station and gateway outputs good quality real-time data allowing and is certified to work on the Geodnet: Global Earth Observation Decentralized Network.

Optional NTRIP for Local RTK:

MobileCM™ has an easily configured NTRIP Server running on the embedded ESP32 WiFi Module. NTRIP is industry standard way to share base-station with many rovers over the Internet. RTCM data is uploaded via WiFi.

About HYFIX.AI:

HYFIX provides simple, easy to use, precise positioning



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