

Geo-Satellite Antenna with GPS

GEO-ANT-GPS



Overview

Integrated antenna for satellite transmissions and GPS reception.

- ▶ Transmits from a Data Collection Platform (DCP) to any Geostationary Satellite: GOES, METEOSAT, Himawari, FengYun
- ▶ Built-in Active GPS antenna allows uninterrupted GPS signal reception, for precise time synchronization
- ▶ CE, FCC/ISED Certified and RoHS Compliant

Features and Benefits

- ▶ Highly reliable for remote locations
- ▶ 3dB beamwidth of 110° allows installation with minimal pointing
- ▶ Beamwidth wide enough to illuminate multiple satellites
- ▶ Prevents snow accumulation compared to a Yagi antenna
- ▶ Requires half the transmit power (W) compared to a Omni antenna
- ▶ Integrated active GPS antenna allows unobstructed GPS signal reception
- ▶ Waterproof, UV resistant enclosure with corrosion resistant aluminum mounting bracket with 316 stainless steel hardware for extreme meteorological conditions
- ▶ Easily mountable on pipe size from 1" to 2.5" OD with adjustable elevation over a 100° range



| SPECIFICATIONS | |
|---|---|
| <i>Subject to change without notice</i> | |
| Parameters | Description |
| Polarization | Right Hand Circular |
| Gain | 5.2 dBi Nominal |
| Frequency | 401 - 403 MHz (RF Antenna) |
| 3dB Beamwidth | 110° Nominal |
| VSWR | 1.5 max. (RF Antenna) 2.0 Max (GPS Antenna) |
| Impedance | 50 Ohms (RF and GPS port) |
| Axial Ratio | 1.2 dB typ. |
| Connector | Type-N Female (RF Antenna) SMA Female (GPS Antenna) |
| Temperature Range | -40°C to +85°C |
| Weight | 1.75 lbs. (794 gm) - Antenna only |
| Dimensions (Antenna) | Cylindrical - height 13.33" (33.86 cm) - diameter 6.41" (16.28 cm) |
| IP Rating | IP67 |

| ORDERING GUIDE | |
|----------------|---|
| Part Number | Description |
| GEO-ANT-GPS | Geostationary Antenna with GPS |
| GEO-ANT-GPS-K1 | Geostationary Antenna with GPS and mounting bracket |
| GEO-ANT-GPS-K2 | Geostationary Antenna with GPS, mounting bracket, UHF RF cable |
| GEO-ANT-GPS-K3 | Geostationary Antenna with GPS, mounting bracket, UHF RF and GPS cables |

* UHF RF and GPS cables are of 5 meter length

* Mounting bracket accessories allow installation on a 2.5" OD pipe

