

# 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 less transmit power (W) compared to an 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



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

<b>ORDERING GUIDE</b>	
Part Number	Description
<b>GEO-ANT-GPS</b>	Geostationary Antenna with GPS
<b>GEO-ANT-GPS-K1</b>	Geostationary Antenna with GPS and mounting bracket
<b>GEO-ANT-GPS-K2</b>	Geostationary Antenna with GPS, mounting bracket, UHF RF cable
<b>GEO-ANT-GPS-K3</b>	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

