A21 and A31 Antennas

GPS, Glonass, BeiDou, Galileo, SBAS and L-Band Antenna

**GNSS Sensor**
- GNSS Reception: GPS L1, GLONASS G1, BeiDou B1, Galileo E1, SBAS, and L-band
- GNSS Frequency: 1.525 to 1.614 GHz
- LNA Gain: 30 dB
- LNA Noise: 2.0 dB, typical

**L-Band Sensor**
- L-Band Frequency: 1.525 - 1.614 GHz
- L-Band LNA Gain: 30 dB

**Power Input**
- Input Voltage: 3.3 to 12 VDC
- Input Current: 24 mA, typical

**Mechanical**
- Enclosure: Aluminum base with ASA plastic top
- Dimensions: 7.0 H x 13.0 D (cm)  2.9 H x 5.1 D (in)
- Weight: 0.38 kg (0.84 lbs)
- Mount: 5/8 inch female thread
- RF Connector: TNC (straight)

**Environmental**
- Storage Temperature: -40°C to +85°C (-40°F to +185°F)
- Operating Temperature: -40°C to +70°C (-40°F to +158°F)
- Enclosure Rating: IP69K
- Shock and Vibration: EP69K

The A21™ antenna is designed to help maintain tracking of GPS, GLONASS, BeiDou, Galileo, and differential correction signals in challenging environments. Sometimes keeping the antenna level and away from electrical noise is just not possible. With a metal base, lower profile, improved multi-path mitigation, and ability to filter out an additional 30 decibels of radio band frequencies, A21 offers superior noise rejection. The A21 is designed for use with Hemisphere GNSS Crescent® and Crescent Vector™ II receivers.

GPS, Glonass, BeiDou, Galileo, SBAS, L-Band and Beacon Antenna

**GNSS Sensor**
- GNSS Reception: GPS L1, GLONASS G1, BeiDou B1, Galileo E1, SBAS, L-band, and Beacon
- GNSS Frequency: 1.525 to 1.614 GHz
- LNA Gain: 30 dB
- LNA Noise: < 2.0 dB

**L-Band Sensor**
- L-Band Frequency: 1.525 to 1.614 GHz
- L-Band LNA Gain: 30 dB

**Beacon Sensor**
- Beacon Frequency: 283.5 - 325 KHz
- Beacon LNA Gain: 30 dB

**Power Input**
- Input Voltage: 5 to 12 VDC
- Input Current: 50 - 60 mA

**Mechanical**
- Enclosure: Lexan
- Dimensions: 10.4 H x 14.5 D (cm)  4.1 H x 5.7 D (in)
- Weight: 0.73 kg (1.62 lbs)
- Mount: 1” coarse thread (5/8” adapter available)
- RF Connector: TNC

**Environmental**
- Storage Temperature: -40°C to +85°C (-40°F to +185°F)
- Operating Temperature: -30°C to +70°C (-22°F to +158°F)
- Enclosure Rating: IP69K
- Shock and Vibration: EP455

The A31™ antenna is designed to help maintain tracking of GPS, GLONASS, BeiDou, Galileo, Beacon, and differential correction signals in challenging environments. Sometimes keeping the antenna level and away from electrical noise is just not possible. With improved multi-path mitigation and ability to filter out an additional 30 decibels of radio band frequencies, A31 offers superior noise rejection. The A31 is designed for use with Hemisphere GNSS Crescent and Crescent Vector II receivers.