

## Air A21 GPS Antenna Superior Noise Rejection



### Benefits:

- Low profile design with metal base
- Precise tracking of GPS, SBAS (WAAS, EGNOS, etc.) and OmniSTAR® L-band signals
- Improved multipath mitigation
- Superior resistance to radio frequency interference



Agricultural vehicles and equipment, including aircraft, typically generate electrical “noise” and interference which can compromise the performance of an antenna. The A21™ Antenna is designed to help maintain tracking of GPS and differential correction signals in these types of environments, and in high-dynamic applications where the antenna may be turned on its side.

With a metal base, lower profile, improved multi-path mitigation, and ability to filter out an additional 30 decibels of radio band of frequencies, the A21 Antenna offers superior noise rejection. The antenna will track GPS, SBAS (WAAS, EGNOS, etc.) and OmniSTAR L-band signals.

The A21 Antenna also features a TNC connector, which has a threaded coupling interface to ensure a secure connection.

The A21 Antenna was designed for use with the R101 and R121 Receivers with Hemisphere GPS Crescent® inside.

## Specifications

### GPS, SBAS and L-Band (OmniSTAR) GPS Sensor

GPS Frequency Range:	1.575 GHz (L1)
GPS Bandwidth:	20 MHz
GPS LNA Gain:	30 dB
GPS LNA Noise:	2.0 dB typical

### L-Band Sensor

L-Band Frequency Range:	1.525 - 1.560 GHz
L-Band LNA Gain:	30 dB

### Power Input

Input Voltage:	3.3 - 12 VDC
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Input Current:	24 mA typical
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### Mechanical

Enclosure:	Aluminium base with Poly-carbonate cap
Dimensions:	70mm H x 130mm D (2.8 H x 5.1 D in)
Weight:	380 g (0.84 lb)

### Environmental

Storage Temperature:	-40° C to +85° C
Operating Temperature:	-40° C to +70° C
Humidity:	IP67 (immersion to 1 meter)

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