A21™ and A31™ Antennas

key features

GPS, SBAS and L-band Antenna

GNSS Sensor

GNSS Reception:	GPS L1, SBAS, and L-band
GNSS Frequency:	1.525 to 1.585 GHz
LNA Gain:	30 dB
LNA Noise:	2.0 dB, typical

L-Band Sensor

L-Band Frequency:	1.525 - 1.585 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 cap
Dimensions:	7.0 H x 13.0 D (cm) 2.9 H x 5.1 D (in)
Weight:	.38 kg (.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:	EP455

The A21™ antenna is designed to help maintain tracking of GPS 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, SBAS, L-band and Beacon Antenna

GNSS Sensor

GNSS Reception:	GPS, SBAS, L-band and Beacon
GNSS Frequency:	1.575 GHz (L1)
LNA Gain:	30 dB
LNA Noise:	< 2.0 dB

L-Band Sensor

L-Band Frequency:	1.525 - 1.585 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:	.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
Humidity:	95% non-condensing

The A31™ antenna is designed to help maintain tracking of GPS, 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.

Hemisphere

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