A21 and A52 Antennas

A21

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. A21 is designed for use with Hemisphere GPS Crescent® and Crescent Vector II™ receivers.

GPS, SBAS and L-Band (OmniSTAR®) Antenna

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

Power Input

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

Mechanical

Enclosure:	Aluminium base with ASA plastic cap
Dimensions:	70mm H x 130mm D (2.9 H x 5.1 D in)
Weight:	380 g (0.84 lb)
Mount:	5/8 inch female thread
RF Connector:	TNC (straight)

Environmental

Storage Temperature:	-40° C to +85° C
Operating Temperature:	-40° C to +70° C
Enclosure Rating:	IP69K
Shock and Vibration:	EP455

A52

The new A52™ antenna adds more precision, reliability and value to our leading Eclipse GPS technology. A52 is a multi-GNSS precision antenna and is ideal for various applications including geodetic surveys, RTK positioning and navigation, precise guidance and machine control. Use the A52 antenna in challenging environments (such as near buildings and foliage) as it has superior multipath mitigation, stable phase center and strong SNR's even at low elevations.

Multi-GNSS Antenna

GNSS Reception:	GPS L1/L2/L5, GLONASS L1/L2, Beidou, SBAS, OmniSTAR, and Galileo E1/E5a and b
GNSS Frequency:	1.165 to 1.253 GHz 1.525 to 1.613 GHz
LNA Gain:	30 dB
LNA Noise:	2.0 dB, typical

Power Input

Input Voltage:	3.3 to 12 VDC
Input Current:	35 mA, typical

Mechanical

Enclosure:	Aluminium base with ASA plastic cap
Dimensions:	76mm H x 185mm D (3.0 H x 7.3 D in)
Weight:	778 g (1.72 lbs.)
Mount:	5/8 inch female thread
RF Connector:	TNC (straight or right angle)

Environmental

Storage Temperature:	-40° C to +85° C
Operating Temperature:	-40° C to +70° C
Enclosure Rating:	IP69K
Shock and Vibration:	EP455

Phase Center Variation

Less than 3 mm at GPS L1 and L2, for elevations above 15 degrees

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