

# A42™ and A52™ Antennas

key features



## Multi-GNSS Antenna

GNSS Reception:	GPS L1/L2/L5, GLONASS L1/L2, Beidou, SBAS, L-band DGNSS/HP/XP (OmniSTAR), and Galileo E1/E5a and b
Channels:	270
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:	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 A42™ antenna adds precision, reliability, and value to our leading Eclipse™ GPS technology. A42 is a multi-GNSS precision antenna and is ideal for various applications including construction surveys, RTK positioning and navigation, precise guidance, and machine control. Use the A42 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.



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## Power Input

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

## Mechanical

Enclosure:	Aluminum base with ASA plastic cap
Dimensions:	7.6 H x 18.5 D (cm) 3.0 H x 7.3 D (in)
Weight:	.78 kg (1.71 lbs)
Mount:	5/8 inch female thread
RF Connector:	TNC (straight or right angle)

## Environmental

Storage Temperature:	-40° C to +85° C (-40°F to +185°F)
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## Phase Center Variation

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

The 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.

