

A42 and A52 Antennas



A42

The new 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.

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: 7.0 H x 13.0 D (cm)
2.9 H x 5.1 D (in)

Weight: 380 g (13.4 oz)

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



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: 7.6 H x 18.5 D (cm)
3.0 H x 7.3 D (in)

Weight: 778 g (27.4 oz)

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)

Operating Temperature: -40° C to +70° C (-40°F to +158°F)

Enclosure Rating: IP69K

Shock and Vibration: EP455

Phase Center Variation

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