



# Trimble Zephyr 3 Base Antenna

## PRECISION BASE ANTENNA WITH MILLIMETER ACCURACY

Integrated with Trimble Stealth™ ground plane to minimize multipath and protected by weather resisting materials, the top of the range Zephyr 3 Base antenna is the ideal antenna for control work.

### COMPREHENSIVE GNSS SUPPORT

The Trimble Zephyr 3 Base antenna offers full support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, OmniSTAR, Trimble RTX and SBAS.

### TRIMBLE ZEPHYR 3 BASE

In addition to fixed base stations, the Zephyr 3 Base antenna is also suitable as a rover antenna for use in high multi-path environments. The Zephyr 3 Base antenna's quality performance and extreme accuracy are achieved through millimeter phase center repeatability, robust low-elevation tracking and reduced ground-based multipath interference.

#### Key Features:

- ▶ Additional Iridium filtering above 1616MHz allows antenna to be used as close as 20m of Iridium transmitter
- ▶ Additional filtering below 1510MHz allows for antenna placement closer to Japanese LTE cell tower
- ▶ Trimble Stealth Ground Plane – integrated lightweight stealth technology with enhanced right hand circular polarization to reduce multipath interference
- ▶ Advanced LNA (low noise amplifier) to reduce interference by high power out-of-band transmitters
- ▶ 50 dB signal gain for reliable tracking in challenging environments and long cable runs

### Key Features

- ▶ Comprehensive GNSS support, including GPS Modernization signals, GLONASS, BeiDou and Galileo
- ▶ Robust low-elevation satellite tracking
- ▶ Large Trimble Stealth™ ground plane for multipath rejection
- ▶ Millimeter phase center repeatability
- ▶ Ideal for fixed reference stations and GNSS infrastructure networks
- ▶ Additional Iridium and Japanese LTE filtering
- ▶ High signal gain (50dB) for reliable tracking
- ▶ Low cross-sectional profile to reduce wind loading



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## TECHNICAL SPECIFICATIONS

- Comprehensive GNSS Tracking:
  - GPS: L1, L2, L5
  - GLONASS: L1, L2, L3
  - BeiDou: B1, B2, B3
  - Galileo: E1, E5a, E5b, E6
  - QZSS: L1, L2, L5, LEX
  - IRNSS: L5
  - SBAS: WAAS, EGNOS, GAGAN, and MSAS
  - MSS: OmniSTAR, Trimble RTX
- Quality signal tracking, even at low elevations
- Four point antenna feed for phase center stability and enhanced polarization
- Powered by GNSS receiver via coaxial cable
- Optional transparent protection radome (available if desired)

## ENVIRONMENTAL QUALIFICATIONS

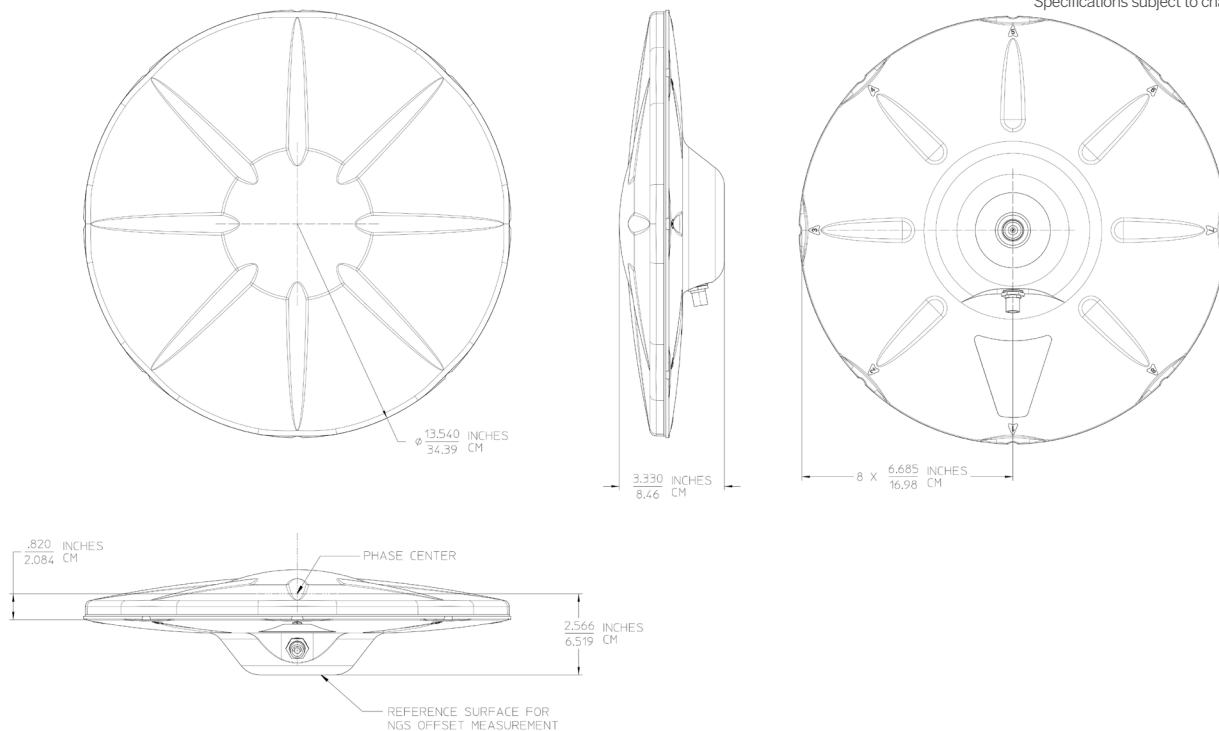
Operating Temperature . . . -40 °C to +85 °C (-40 °F to +185 °F)  
 Humidity . . . . . 100% humidity proof, fully sealed, IP67  
 Shock and Vibration  
 Tested and meets the following environmental standards:  
 Shock: MIL-STD-810-F to survive a 2 m (6.56 ft) drop onto concrete  
 Vibration: . . . . . MIL-STD-810-F on each axis  
 Compliance . . . . . CE compliant including ISO 13766:2006, 2014/45/EU (RED), EN 60950, E-Mark and RoHS, FCC, IC and RCM compliant

## PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions . . . . . 34.3 cm diameter x 7.9 cm height (13.5 in diameter x 3.1 in height)  
 Weight . . . . . 1.36 kg (3 lb)  
 Input Voltage . . . . . 3.5 V DC to 20 V DC  
 MSS Narrow Band Mode (1555 to 1559 MHz): >6.4 V DC to 9 V DC  
 MSS Wide Band Mode (1525 to 1559 MHz): 3.5 V DC to 6.0 V DC and 9.4 V DC to 20 V DC  
 Input Current . . . . . 125 mA  
 Signal Gain . . . . . 50 dB  
 Signal Connector . . . . . TNC Female  
 Mounting . . . . . 5/8" - 11 Female Thread

## PART NUMBERS

115000-50-INT . . . . . Zephyr Model 3 Base Antenna  
 Specifications subject to change without notice



Contact your local dealer today

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 Integrated Technologies  
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 Sunnyvale, CA 94085  
 Americas & Asia-Pacific  
 Europe/EMEA  
 Email: sales-intech@trimble.com

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