Trimble Zephyr 3 Antennas

PRECISE AND DURABLE WITH SUB-MILLIMETER ACCURACY

The top of the range Trimble® Zephyr™ external GNSS antennas contain advanced technology for multipath reduction, outstanding low elevation satellite tracking and sub-millimeter phase center stability.

COMPREHENSIVE GNSS SUPPORT

The Trimble Zephyr 3 antennas offer full support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, OmniSTAR, Trimble RTX and SABS. Combined with rugged durability, the Trimble Zephyr 3 antenna will be a long term investment.

TRIMBLE ZEPHYR 3 ROVER

The Trimble Zephyr 3 Rover is a high-performance lightweight GNSS rover antenna optimized for precision RTK applications. The Zephyr 3 Rover GNSS antenna is typically used in roving applications. It minimizes multipath and offers robust low elevation tracking and sub-millimeter phase center repeatability.

Key features of the Zephyr 3 Rover

- · Optimized for GNSS rover applications
- Robust low-elevation satellite tracking
- · Minimized multipath
- · Sub-millimeter phase center repeatability
- Now with Iridium and Japanese LTE filtering

TRIMBLE ZEPHYR 3 BASE

The Zephyr 3 Base is recommended for all base station applications. This antenna is also suitable as a fixed rover antenna for use in high multi-path environments. The Zephyr 3 Base antenna's quality performance and extreme accuracy are achieved through sub-millimeter phase center repeatability, robust low-elevation tracking and significantly reduced ground-based multipath.

Key features of the Zephyr 3 Base:

- · Optimized for GNSS base station applications
- · Robust low-elevation satellite tracking
- Large ground plane for best multipath rejection
- Sub-millimeter phase center repeatability
- Ideal for fixed reference stations and GNSS infrastructure networks
- · Now with Iridium and Japanese LTE filtering

Key Features

- Comprehensive GNSS support, including GPS Modernization signals, GLONASS, BeiDou and Galileo
- Robust low-elevation satellite tracking
- Minimized multipath
- Sub-millimeter phase center repeatability
- Ideal for fixed reference stations and GNSS infrastructure networks
- Additional Iridium and Japanese LTE filtering
- High signal gain (50 dB) for reliable tracking
- ▶ 5/8" 11 stainless steel mounts



Zephyr 3 Rover Antenna



Zephyr 3 Base Antenna



Contact NavtechGPS for product details. www.NavtechGPS.com +1-703-256-8900 • 800-628-0885 • info@navtechgps.com

TECHNICAL SPECIFICATIONS

Zephyr 3 Rover and Zephyr 3 Base

Broad GNSS Frequency Tracking Band Including:

- GPS: L1, L2, L5 - GLONASS: L1, L2, L3 - BeiDou: B1, B2, B3 - Galileo: E1, E2, E5, E6

- SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, OmniSTAR and Trimble RTX

· Quality signal tracking, even below 5 degrees elevation

· Four point antenna feed for phase center stability and enhanced polarization

· TNC female signal connector

· Small cross-sectional area to reduce wind loading

• 5/8" - 11 female threaded stainless steel mount point

· Powered by GNSS receiver via coaxial cable

 Advanced LNA (low noise amplifier) to reduce jamming by high power out-of-band transmitters with 50 dB signal gain for reliable tracking in challenging environments and long cable runs

 Additional iridium filtering above 1616 MHz allows antenna to be used as close as 20 m of iridium transmitter

· Additional Japanese filtering below 1510 MHz allows antenna to be used as close as 100 m of Japanese LTE cell tower

Zephyr 3 Base Antenna Only

- Trimble Stealth Ground Plane integrated lightweight stealth technology with enhanced right hand circular polarization to reduce multipath interference
- · Supplementary transparent protection radome not required (available if desired)

TRIMBLE ZEPHYR 3 antennas

ENVIRONMENTAL QUALIFCATIONS

Operating Temperature.. -40 °C to +85 °C (-40 °F to +167 °F) Humidity100% humidity proof, fully sealed 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

Vibration: MIL-STD-810-F on each axis ComplianceRoHS

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Zephyr 3 Rover Dimensions.. 16.5 cm diameter x 7.6 cm height (6.5 in diameter x 3 in height) Zephyr 3 Base Dimensions ...34.3 cm diameter x 7.9 cm height (13.5 in diameter x 3.1 in height) Zephyr 3 Rover Weight 0.64 kg (1.4 lb) Input Voltage 3.5 V DC to 20 V DC Narrow Band Mode (1555 to 1559 MHz): >6.4 V DC to 9 V DC 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 Signal Gain 50 dB

PART NUMBERS

105000-50-INT Zephyr Model 3 Rover Antenna 115000-50-INT Zephyr Model 3 Base Antenna



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