

Heavy industry for off-road vehicles
in controlled environments

Trimble OEM GNSS position and orientation solutions



Trimble OEM GNSS provides original equipment manufacturers (OEMs) and system integrators the ability to offer continuous mobile positioning and high-accuracy orientation with precision GNSS technology.

Operator assist or fully automatic GNSS systems

Position and orientation is a foundational building block for enabling off-road automation, whether it be for “operator assist” applications or fully automatic machine control. Trimble positioning technology stands at the forefront of accuracy, availability and integrity by leveraging advanced GNSS hardware, software and inertial sensor fusion to deliver centimeter-level accuracy—even in the most challenging conditions.

Easy-to-integrate, high-precision GNSS products help integrators maximize productivity, enhance profitability and differentiate their solutions to gain a competitive edge in the marketplace.

The Trimble value proposition for off-road applications

Heavy industry applications require high-precision positioning accuracy in various environments, worldwide. Dependable solutions must maintain high positioning accuracy, regardless of environmental obstructions or signal interference.

Powered by Trimble ProPoint® positioning technology, our products meet the high standards of operation required in all conditions, such as tree canopy, or man-made impediments such as bridges, which can block GNSS signals.

Trimble provides receivers with advanced interference rejection technology and interference resistant antennas to help protect against multi-path, jamming and spoofing.

Ionospheric activity that is approaching its peak has a direct impact on delay and stability of GNSS signals. Trimble IonoGuard™ technology helps mitigate ionospheric disturbances, while improving accuracy, availability and signal integrity.

Many applications often take place off-the-grid, where connectivity cannot be taken for granted. Trimble RTX® correction service provides the positioning assurance and added peace of mind to operate virtually anywhere and anytime.



Trimble solutions

- Trimble ProPoint technology performs in even the harshest environments
- Dual antenna support for heading solutions
- Tightly coupled INS to maintain positioning in GNSS-denied areas
- Interference-resistant antennas provide jamming resilience
- Trimble IonoGuard technology to mitigate ionospheric disturbances
- Trimble RTX correction service with blazing-fast initialization
- Flexible interface and APIs for easy integration
- Unparalleled integration support with live-application engineering assistance

For more information, email:
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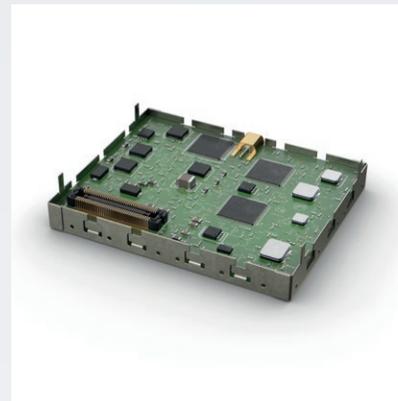
Whether you need positioning tools that help you do a job better, faster, cheaper, greener or safer, we offer a full range of products: receiver modules, rugged enclosures, antennas, smart antennas, and correction services.

Trimble GNSS antennas provide superior signal quality and accuracy by incorporating advanced technologies such as low-elevation tracking and multipath mitigation. Their rugged, weather-resistant designs make them suitable for use in harsh outdoor conditions, while their compatibility with various Trimble GNSS receivers ensures seamless integration.



BX992 with BD992-INS (Dual Antenna Receiver)

- dual-antenna, quad-frequency receiver with integrated inertial navigation system
- BX992 offers environmentally sealed enclosure for all environments



BD940 (Single Antenna Receiver)

- small, lightweight, triple-frequency receiver
- quickest, most reliable RTK and RTX initialization for centimeter positioning



BD940-INS (Single Antenna Receiver)

- integrates the latest in precision inertial sensors for harsh conditions on a single board
- robust navigation solution, as well as GNSS receiver

Both receivers, and the BD990, are best options where pass-to-pass accuracies for compaction, auto steering or other single point applications are required.



AX940i Smart Antenna

- compact, easy to install
- integrated BD940 receiver in sleek IP67-rated enclosure
- built-in inertial sensors, Wi-Fi and Bluetooth connectivity



ZEPHYR 3 Rugged Antenna

- designed for high-shock, vibration environments
- advanced filtering capabilities, robust signal tracking
- millimeter-level accuracy

For more information, email:
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Trimble RTX Correction Service

Trimble RTX is our exclusive, advanced precise point positioning technology that provides real-time, centimeter-level corrections delivered worldwide via satellite or cellular/IP. Trimble OEM GNSS receivers come equipped with L-band to receive RTX out of the box, to maximize your workflow with the freedom to work anywhere.

