Geospatial GNSS Systems
GNSS Solutions Designed with the Surveyor in Mind

POWERFUL TECHNOLOGY YOU CAN DEPEND ON... NO MATTER WHAT THE CHALLENGE

Whether you are climbing over rough terrain to collect topographic data, racing to finish an as-built before nightfall, or staking out a road under the relentless summer sun, Trimble offers a complete portfolio of GNSS solutions to help you conquer your survey challenges.

Trimble offers survey professionals the GNSS options they require. Whether you need the cable-free convenience provided by Trimble integrated GNSS receiver systems, the flexibility of Trimble modular GNSS receiver systems, or the simplicity of handheld point measurement, Trimble has a solution for you. Simply choose the system configuration and level of GNSS support that best fits your application and business needs.

ENABLING YOU TO BE THE BEST

Through every stage of your surveying project, Trimble solutions ensure you are working at optimal efficiency with the utmost confidence in your work:

- Experience productivity that goes beyond having the best GNSS technology on the market.
- Collect more data in less time via comprehensive GNSS support and an abundance of powerful features, including Trimble HD-GNSS and Trimble 360 technologies.
- Reduce rework with quality control features, such as Trimble® SurePoint™ technology.
- Easy-to-use field solutions allow you to get the most out of your GNSS system.

INTEGRATED SURVEYING SOLUTIONS

Combine Trimble surveying technologies to accomplish more in the field. Trimble GNSS receivers integrate seamlessly with the full suite of Trimble survey systems. Whether you are staking out with your optical total station or documenting the job site with the Trimble SX10 scanning total station, all Trimble survey solutions integrate seamlessly both in the field and back in the office through Trimble Business Center office software.

Industry-leading GNSS Solutions

Backed by a legacy of GNSS technology leadership and surveying expertise, Trimble provides surveyors with reliable, innovative GNSS survey solutions that meet their distinct requirements. For more than 30 years, Trimble has been setting the standard when it comes to positioning technology—and that tradition continues today and into the future.

GNSS SYSTEMS FOR ALL YOUR APPLICATION NEEDS

Built on a foundation of established and durable hardware, customizable software, and services, Trimble surveying systems are designed to support a range of surveying applications including:

- Architecture
- Cadastral & Boundary Surveying
- Geodetic & Control Surveying
- Land Seismic, Exploration, and Natural Resources
- Land Surveying
- Mining
- Utilities & Transportation
- GIS Field Data Collection
ADVANCED SURVEY TECHNOLOGIES

For more than 30 years, Trimble has developed GNSS technologies that advance the capabilities of the surveyor, enabling efficient and accurate data capture in the field.

The Trimble HD-GNSS processing engine provides a more accurate assessment of error estimates than traditional GNSS processing engines, especially in challenging environments. Markedly reduced convergence times as well as high position and precision reliability enable surveyors to collect measurements with confidence.

Integrated into the R10 receiver, Trimble SurePoint technology means you’ll get faster measurements, increased accuracy, and greater quality control. The Trimble controller displays an electronic bubble so all the measurement information is in one convenient place. The system can also compensate for up to 15° of pole tilt so you can easily measure points that were previously inaccessible.

Never be interrupted again by connection outages. Leveraging a worldwide network of Trimble GNSS reference stations and satellite data links, Trimble xFill® in the R10 and R8s seamlessly fills in for gaps in your RTK or VRS correction stream for connection outages of up to five minutes at a time. In combination with a Trimble CenterPoint® RTX subscription, survey level precisions are maintained for an infinite duration.

POWERFUL PROCESSING SOFTWARE

Trimble Business Center Office Software

Back in the office, seamlessly transfer your field data to Trimble Business Center. Edit, process, adjust, and quality check collected data with confidence. Select a Trimble Business software edition based on what level of data processing is needed.

No matter what Trimble solution you use in the field, you can trust that Trimble Business Center office software will help you generate industry leading deliverables.

Integrated GNSS Systems

The Trimble R10, Trimble R8s and Trimble R2 integrated GNSS systems combine the GNSS receiver, antenna, internal 450 MHz radio, and battery into a single integrated, compact unit. This popular configuration gives surveyors the latest in GNSS technology in a user-friendly system that is lightweight, rugged, and cable free.
Integrated GNSS Systems

**TRIMBLE R10**

**Productivity Beyond GNSS.**
Designed to help surveying professionals work more effectively, the TRIMBLE R10 represents the next generation of GNSS surveying. With powerful technologies that go beyond comprehensive GNSS support, the TRIMBLE R10 enables the surveyor to collect more reliable data—no matter what the job.

- Cutting edge Trimble HD-GNSS processing engine enables surveyors to measure points more quickly
- SurePoint technology fully compensates for pole tilt. Conveniently measure points that were otherwise inaccessible with complete quality assurance
- Trimble xFill technology provides less downtime in the field, with continuous RTK coverage during connection outages from an RTK base station or VRS network
- Powerful 672-channel solution with Trimble CenterPoint RTX correction service delivers the most advanced satellite tracking
- Trimble CenterPoint RTX correction service delivers GNSS corrections via satellite or internet connection for unprecedented speed and accuracy for a PPP solution
- Ergonomic design for easier and more comfortable handling
- Integrates seamlessly with SX10 scanning total station and S-Series total station positioning sensors
- Pair with Trimble Access™ software and the TSC7 or TSC3 controllers, Trimble T10, Slate or Trimble CU for a powerful solution

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**TRIMBLE R2**

**The Versatile Receiver that Works As Hard as You Do**

With its trusted Trimble technology and compact, durable design, the Trimble R2 GNSS receiver lets you work the way you want. It gives you the flexibility to configure a solution based on the accuracy and performance level that suits your application. It’s the smart, easy-to-use solution for geospatial applications, ranging from pole-based stakeouts to surveying on roads, in mines or on construction sites, and much more.

The Trimble R2 GNSS receiver:

- Enables you to select submeter to centimeter level positioning accuracy
- Delivers maximum data quality via its Trimble Maxwell™ 6 chip with 220 channels and leading GNSS technology
- Supports multiple satellite constellations and correction sources either via network connection or satellite (L-Band) for accurate data at any location
- Includes Trimble RTX® correction services providing highly accurate positions anywhere without the need for a base station or VRS network
- One-button start up and compact, streamlined design enable quick setup, whether it’s mounted on a pole, in a backpack or on a vehicle

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**TRIMBLE R1**

**Transforming Smart Devices into High-Accuracy Data Collectors**

Ideal for GIS workflows, the TRIMBLE R1 is a rugged, compact GNSS receiver that provides professional-grade positioning information to any connected mobile device using Bluetooth® connectivity. No matter what smart device you choose—from iOS to Android—for collecting GIS data, inspecting, or managing assets, the TRIMBLE R1 lets you achieve a greater level of reliable spatial accuracy than your current smartphone or tablet is able to provide on its own.

- Sub-meter positioning accuracy with optional Trimble ViewPoint RTX® corrections service over the internet or satellite, even in remote locations
- Pocket-sized and lightweight, it can be carried in a vest pocket or clipped on a belt when not in use
- Bluetooth connectivity ensures streamlined, cable-free operation for easy use and mobility in the field
- Supports multiple satellite constellations and a range of correction services, including SBAS, VRS, and RTX, for global coverage
- Compatible with a variety of professional handhelds and consumer smart devices to ensure current technology investments are maximized
Modular Trimble GNSS System

TRIMBLE R9s
Scalable, Configurable, Connected
The Trimble R9s receiver enables you to take the best of Trimble GNSS technology anywhere you want to go.

► Scalable options and operation modes let you choose the right receiver configuration for your application
► Multiple ways to configure the receiver including a Web User Interface via Ethernet, using Trimble Access, or using the front panel faceplate
► Configuration upgrades available now or down the road ensure your receiver will last well into the future
► Ability to send or receive RTK corrections via Ethernet connection

The Total Modular Solution
The Trimble R9s receiver offers advanced GNSS support in a modular design that employs an external GNSS antenna for greater freedom to adapt depending on the application.

► Advanced 440-channel system with Trimble 360 satellite tracking technology
► Provides the flexibility to be used on the pole or as a base station with an internal UHF radio or external high power UHF radio
► Partner with Trimble Access and the TSC7 or TSC3 controllers, or T10 tablet for the optimal field solution
► Easy to use Trimble DL data logging Android app for a convenient way to start a postprocessing workflow

Comprehensive GNSS Modularity
The Trimble R9s is a GNSS receiver designed to provide surveyors with maximum functionality and flexibility. The Trimble technologies provided in the R9s receiver are a unique and comprehensive combination.

► Trimble CenterPoint RTX correction service, Trimble xFill and Trimble 360 technologies are all integrated into this modular receiver system
► The Trimble R9s receiver supports a wide range of high-accuracy positioning modes, including mobile field base station or an RTK and RTX rover with markedly reduced convergence times

Field Solutions

UNLOCK THE POTENTIAL OF YOUR TRIMBLE GNSS SYSTEMS
Trimble provides surveyors with a complete approach to managing fieldwork. Trimble Field Solutions achieve faster time-to-deliverable and improve your competitive edge with increased productivity and easy access into new, specialized applications.

TRIMBLE CENTERPOINT RTX AND XFILL
CenterPoint RTX provides accuracy better than 4 cm (1.5”) via satellite or cellular. No other satellite delivered correction service performs better. Powered by Trimble RTX technology, Trimble xFill provides seamless, centimeter-level back-up corrections via satellite if RTK or VRS signal source is interrupted. With these services from Trimble, you can survey longer and in previously inaccessible places. Go further than just GNSS.

TRIMBLE PENMAP FOR ANDROID FIELD SOFTWARE
Trimble Penmap® for Android™ is a cloud-connected application for field surveying and high-accuracy GIS data collection. Focusing on core survey and mapping tasks such as cadastral and boundary surveys, establishing local control, stake-outs, quality checks and asset management, it provides an intuitive, easy-to-use map-based interface to manage features and attributes on your choice of Android device.
Field Solutions

TRIMBLE GEO 7X

Providing Options for Your Choice of Workflow

The rugged Trimble Geo7X handheld with the software that is right for your application is a complete solution for surveyors and engineers, designed to make both high-accuracy surveying and handheld point measurement easier, more efficient, and more flexible.

► Dedicated network rover solution suitable for all your surveying needs
► Detachable rangefinder accessory—simply point and shoot to get a position
► Can be mounted on a survey rod with an external antenna for survey-grade accuracy. Off the rod, seamlessly switch to its integrated antenna for handheld point measurement with easy access to features such as the integrated camera
► Trimble Access field software provides a familiar, easy-to-use interface that will ensure instant real-time productivity or will help you collect GNSS data for postprocessing in the Trimble Business Center software

TRIMBLE CATALYST GNSS SOFTWARE RECEIVER

High-Accuracy, On-Demand Positioning-as-a-Service

Yesterday your phone could tell you where you were within a few meters. Now, with Trimble Catalyst™, your phone can tell you where you are within just a few centimeters. Catalyst is a software-defined GNSS receiver that works with select Android mobile handhelds, smartphones and tablets. When combined with a compact plug-and-play digital antenna and monthly subscription to the Catalyst service, it provides you with on-demand GNSS positioning capabilities to transform your mobile phone into a high-accuracy mobile data collection system. The solution requires:

► A monthly subscription to the level of accuracy you need: 1 Meter, Sub-meter, Decimeter, and Precision (1–2 cm). The subscription includes bundled access to Trimble VRS Now™ correction streams where available, and worldwide access to Trimble RTX corrections technology
► The small, lightweight DA1 digital antenna that plugs directly into your Android phone or tablet
► Any location-enabled mobile app—either a Catalyst-ready app that integrates directly with Catalyst using an SDK, or a third-party location-enabled app that uses the location sharing feature on compatible Android devices.
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1. Based on Configuration
2. Ethernet Port
3. USB Drive or External Hard Drive

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