# Trimble EMPOWER

## PLATFORM

### ACCURATE AND AFFORDABLE PROFESSIONAL-GRADE GNSS

With the Trimble® EM100 EMPOWER Module, get more out of your Trimble TSC5 or TSC7 Controllers, or Trimble T7 Tablet. Extend the usability of your Trimble EMPOWER-enabled field devices for a faster return on investment. Add the EM100 module to your tablet or controller to get integrated sub-meter positioning in the field without the added cost of a pole-mounted receiver, or achieve centimeter-level positioning with the EM100 EMPOWER Module Precise Rover Kit, which includes a supported external antenna.


## Key Benefits

The EM100 offers accuracy and reliability for construction site positioning, stakeout and measurement in a compact design perfect for one-person operation.

### Rugged, Lightweight Site Positioning

With support for a range of different correction sources and built-in antenna, the EM100 has everything you need to turn your rugged field device into an accurate, rugged data collection device.

- Easy-to-operate design allows users to quickly get to work
- Makes site positioning easier and accessible for more people and applications
- Uses multiple GNSS constellations, satellites and signals to increase productivity and uptime

### Fully Integrated GNSS Solution

Trimble EMPOWER modules offer a fully integrated user experience. From the all-in-one device feel to the tightly integrated software, the EM100 module gives users the benefits of an external GNSS receiver without the need to carry extra equipment.

For tighter precision, achieve high-accuracy surveying using the EM100 module with an external antenna. Support for a range of external antennas enables centimeter-level positioning when connected to a Real-Time Kinematic (RTK) network via Virtual Reference Station (VRS) or Internet Base Station Service (IBSS).

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TRIMBLE EMPOWER ENABLED

## KEY FEATURES

### Multiple Constellation Support and Global Reach

The EM100 supports multiple GNSS constellations to provide a truly global GNSS solution, including:

- GPS
- GLONASS
- Galileo
- QZSS
- BeiDou

Including the ability to utilize IBSS, Satellite-Based Augmentation Systems (SBAS), Trimble CenterPoint™ RTX or VRS correction sources to suit location and business needs, the EM100 provides accurate GNSS information almost anywhere on Earth.

### Applications

The EM100 is an easy-to-use, lightweight and compact positioning solution that supports a range of applications, including:

- Estimation activities (e.g., areas and lengths)
- Laying out temporary infrastructure (e.g., silt fence and erosion control barriers)
- Site inspections
- Topographic surveys
- Grade checking

### Flexibility

Trimble EMPOWER-enabled data collectors are designed for upgradability and expanded abilities as technology needs change. Utilizing EMPOWER modules in the place of additional radios, deploy different combinations of hardware based on the complexity of the job requirements and available personnel.

## ADDITIONAL OPTIONS

### Long-Range Communications with Robotic Total Stations

The Trimble EM120 EMPOWER Module is a rugged, lightweight 2.4 GHz radio module that can connect to any Trimble EMPOWER-enabled base device including the TSC5 and TSC7 controllers, and T7 tablet. It is designed to allow communication between Trimble robotic enabled total stations and compatible base devices, providing seamless integration to robotic total stations through a wider range of data collectors without compromising range or robotic functionality.

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