

# Trimble RTKNet Software

## True Network RTK Setups

### Scalable Infrastructure Solutions for Today and Tomorrow

Designed to provide true Network RTK performance, the Trimble® RTKNet software enables high-accuracy positioning in real time across a geographic region. The RTKNet software package uses real-time data streams from the GPSNet system and generates correction models for high-accuracy RTK GPS corrections throughout that network. It is ideal for any application requiring reliable, fast, high-precision wide area positioning.

### Scalable Network Solutions

Available stand-alone, or as an upgrade to the Trimble GPSNet software, RTKNet provides all the functionality of GPSNet, plus true Network RTK capability. Trimble provides a portfolio of infrastructure solutions designed to accommodate single reference stations (GPSBase), networks of reference stations (GPSNet), or fully modeled Network RTK solutions (RTKNet). This scalability allows you to select the best solution for your requirements. RTKNet is designed to meet the needs of organizations and companies requiring high-reliability, high-accuracy RTK performance in one or more networks spanning large geographic regions. For users who work in smaller areas and require only standard RTK corrections, GPSBase software provides key functionality for setting up and managing a single fixed reference station,



## Features and Benefits

and GPSNet supports the management of multiple reference stations in a network.

### The Ultimate GPS Network

RTKNet provides the highest level of RTK performance achievable from a network of base stations. RTKNet provides all of the same features as GPSNet for reference station configuration, data logging, individual base RTK streams, and 24/7 availability. In addition, by creating a systematic error model across the network, RTKNet provides VRS™ (Virtual Reference Station) or SAPOS/FKP broadcast RTK corrections, enabling rover users to achieve fast, high-precision performance over much larger areas than standard RTK. It maximizes the achievable RTK performance from a network of reference stations and eliminates the need to set up a temporary field base station for each individual project—saving you time and money.

In the field, you also have the assurance of the built-in integrity monitoring system to warn if there are any problems with the data. The results are centimeter accuracy, shorter initialization times, and high confidence in solutions throughout the entire region spanned by the network.

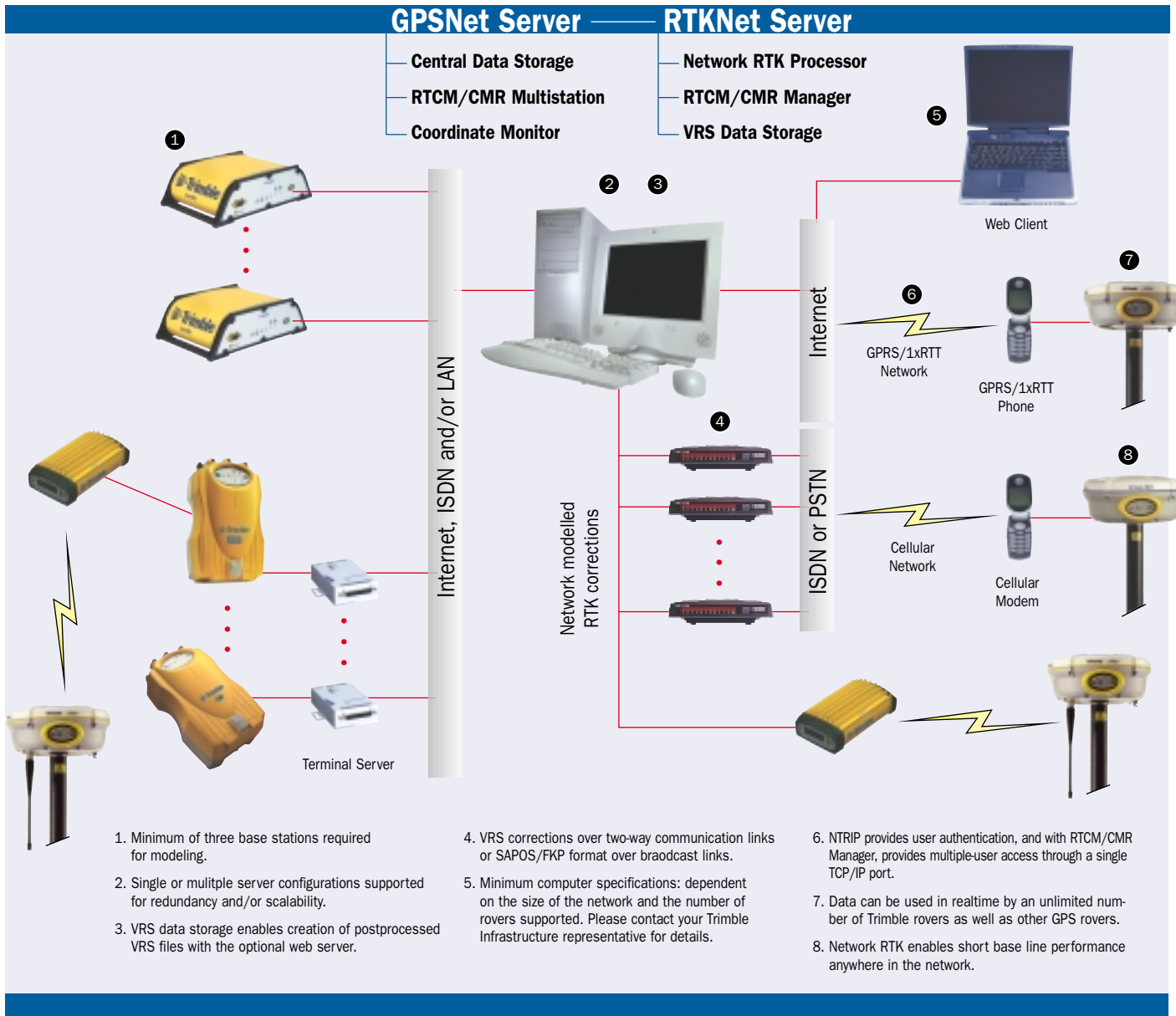
- **Scalability:** Available as an upgrade from GPSNet.
- **Expandable:** Easily add more receivers to network as your geographic area of operation grows.
- **Choice:** Select Trimble NetRS™ or 5700 GPS CORS receiver or use your existing GPS hardware.<sup>(1)</sup>
- **Centralized Control:** Connect receivers to a central control station via Internet/LAN using low-cost, high-speed, flexible communication links.
- **Multiple Function Reference Stations:** Simultaneously provide RTK operations and data logging for postprocessed GPS work.
- **High Accuracy:** Network RTK results in better accuracy, shorter initialization times, and a high level of confidence in your data.
- **Convenience:** Perform high-accuracy GPS at any time, without local reference stations, control surveys, or calibrations.

<sup>(1)</sup>RTKNet works with most major brands of GPS receivers. For details, please contact your local Trimble representative.



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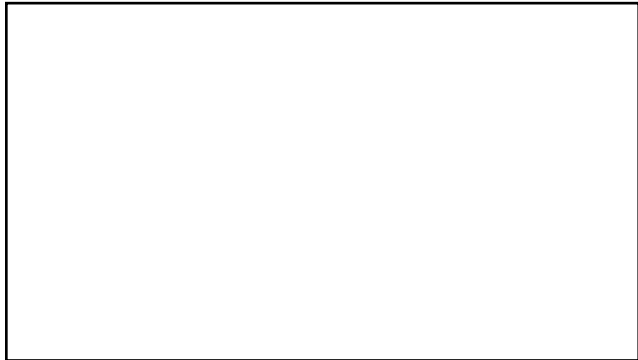
## True Network RTK Setups



1. Minimum of three base stations required for modeling.
2. Single or multiple server configurations supported for redundancy and/or scalability.
3. VRS data storage enables creation of postprocessed VRS files with the optional web server.
4. VRS corrections over two-way communication links or SAPOS/FKP format over broadcast links.
5. Minimum computer specifications: dependent on the size of the network and the number of rovers supported. Please contact your Trimble Infrastructure representative for details.
6. NTRIP provides user authentication, and with RTCM/CMR Manager, provides multiple-user access through a single TCP/IP port.
7. Data can be used in realtime by an unlimited number of Trimble rovers as well as other GPS rovers.
8. Network RTK enables short base line performance anywhere in the network.

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