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Trimble NetR3 GNSS Reference Sensor: Frequently Asked Questions

What are the primary functions of the Trimble NetR3 GNSS reference sensor?

The Trimble® NetR3 reference sensor observes GNSS data and forwards the observations to a Trimble Infrastructure software package(s) such as Trimble GPSNet™ or Trimble Integrity Manager. The Trimble NetR3 reference sensor can also support rover integrity and storage integrity functions from Trimble's network reference station management software, RTKNet.



What are the key benefits of the Trimble NetR3 reference sensor?

By focusing on core functionality, the Trimble NetR3 reference sensor is competitively priced. It is a cost effective solution for all Infrastructure applications, including VRS™ networks, DGPS MSK Beacon support, and Integrity Monitoring. It is an ideal solution for network operators wanting to expand, densify, or modernize their network(s).

The Trimble NetR3 reference sensor:

- is powerful, yet cost effective
- uses Trimble quality technology to generate high quality results
- is easy to operate
- is a complete solution, when combined with Infrastructure software
- is scalable and customizable

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What are the main feature comparisons between the NetR3, NetRS, and NetR5 receivers?

Feature	NetR3	NetRS®	NetR5™
Trimble R-Track™ technology (L2 Civil signal – L2C)	Y	Y	Y
GPS L5 signal processing	O	N	Y
GLONASS signal processing	Y	N	Y
Trimble Advanced Maxwell™ custom survey GNSS chip	Y	Y	Y
Low elevation tracking	Y	Y	Y
72 channels	Y	N	Y
Internal memory storage	O	Y	Y
External memory support	N	N	Y
Internal battery	Y	N	Y
RTK engine	O	Y	Y
Portable base station	N	Y	Y
Data streaming outputs	Y	Y	Y
RT-17 streaming format	Y	Y	Y
RT-27 streaming format	Y	N	Y
NMEA streaming format	Y	Y	Y
CMR and CMR+™	N	Y	Y
RTCM 2.1 and 2.3	N	Y	Y
RTCM 3.1	N	N	Y
Web interface	Y	Y	Y

Is the Trimble NetR3 reference sensor compatible with all available network software packages?

The Trimble NetR3 reference sensor is compatible only with Trimble Infrastructure software.

Can the Trimble NetR3 reference sensor be used with Trimble Integrity Manager software?

The Trimble NetR3 reference sensor is ideal for Trimble Integrity Manager for use in both large and small monitoring projects.

Can I store data on the Trimble NetR3 reference sensor?

The Trimble NetR3 reference sensor does not include internal memory. However, a memory option is available and can be added to your order to make it compatible with the storage integrity module of Trimble GPSNet software or Trimble Integrity Manager.

Can I add the Trimble NetR3 reference sensor to my existing CORS network to improve or densify station spacing?

Yes. The cost effective Trimble NetR3 reference sensor provides all functionality required to densify an existing network.

Is the Trimble NetR3 reference sensor RoHS compliant and CE Certified?

Yes. Additional regulatory compliances include FCC Part 15 (Class B Device), C-Tick Industry Canada ICES-003, RSS-210 RSS-Gen and RSS-310.

What types of applications does the Trimble NetR3 reference sensor support?

The Trimble NetR3 reference sensor can be used in existing networks or new network installations.

Applications for the Trimble NetR3 reference sensor include:

- Expanding network extents
- Improving station spacing (densification)
- Adding GNSS support to current GPS only networks
- Installing a dedicated rover for VRS performance analysis (Rover Integrity)
- Monitoring GNSS positioning integrity
- Implementing Sparse GLONASS functionality (now available in GPSNet software version 2.6)

What streaming outputs are supported by the Trimble NetR3 reference sensor?

Streaming outputs include Trimble proprietary RT17/RT27 and NMEA.

Can I connect a reference station radio to the Trimble NetR3 reference sensor?

The Trimble NetR3 does not produce RTK correctors; therefore there is no need to connect a radio.

Does the Trimble NetR3 reference sensor support FTP?

No. FTP push functions are managed by Trimble Infrastructure software.

Which antennas does the Trimble NetR3 reference sensor support?

The Trimble NetR3 reference sensor works exclusively with the Trimble Zephyr Geodetic™ 2 and the Trimble GNSS Choke Ring antennas.

If I activate the data logging for storage integrity option, can I use the Trimble NetR3 reference sensor as a field campaign receiver for postprocessing data observation?

No. The data logging option functions only with the storage integrity module of Trimble GPSNet software or Trimble Integrity Manager software.

If I activate the RTK for rover integrity monitor option, can I use the Trimble NetR3 reference sensor as a rover?

The RTK for rover integrity option functions with the rover integrity module of Trimble GPSNet software and Trimble Integrity Manager. The NetR3 reference sensor does not communicate with data collectors or radios.

Can I add options to the Trimble NetR3 reference sensor?

Yes. Available options include:

- Data logging for Storage Integrity
- RTK for Rover Integrity Monitor option
- GPS L5 enable option

Please contact your local Trimble Sales Representative for more information.

Is there an option to upgrade the Trimble NetR3 reference sensor after it has been installed?

Yes. The Trimble NetR3 reference sensor is upgradeable. For more details or for post-sales support, do one of the following:

- Email: support@trimble.com
- Phone: 1 800-767-4822 (in the U.S.)
- Phone: +1 303-323-4111 (outside the U.S.)

When is the Trimble NetR3 reference sensor available for shipment?

The Trimble NetR3 is available now. Please contact your Trimble Sales Representative for details.

How do I order the Trimble NetR3 reference sensor?

For more information, do one of the following:

- Contact: your local Trimble Sales Representative
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