KOREC™

How to choose the right Trimble GNSS for your survey applications: A quick guide to our three best-selling receivers, the R12i, R780 and R580

ProPoint technology is ideal for challenging GNSS conditions

Quick guide - GNSS

Choosing the right Trimble GNSS receiver depends on several factors, including your specific application, accuracy requirements, environmental conditions, and budget.

Here are some key considerations to help you make an informed decision:

Common factors to the R12i (Premium), R780 (Rugged) and R580 (Value)

• When you buy into the Trimble brand and KOREC support, it's immaterial which receiver you choose. All of them are based on Trimble's 40-year heritage dedicated to reliability and innovation and they are all backed up by KOREC's renowned technical support, training and T.R.U.S.T ethos. You're buying into a premium brand and that brings a host of proven benefits including long term value, extensive R&D and high-level customer support.

• Trimble users have a single source of supply for the complete GNSS workflow – VRS Network, Mobile SIM cards, GNSS hardware, controllers, field software and augmentation services like xFill – just call KOREC for easy, fast support.

• They all have Trimble ProPoint technology, Trimble's trade-marked technology for increased performance in challenging GNSS environments, including close proximity to trees and in urban environments.

Premium R12i	Advanced Trimble R780	VALUE Trimble R580
		
Trimble premium solution with Trimble ProPoint GNSS and Trimble TIP tilt compensation technology delivering unrivalled GNSS performance.	Ultra-rugged, scalable receiver with Trimble ProPoint GNSS and Trimble TIP™ tilt compensation technology	Next generation, value-for-money receiver for surveyors or GIS professionals seeking a precise positioning solution

• The all have Trimble Access software compatibility and the same choice of field data loggers to run that software on.

"Basically the Trimble R12i is a solution that enables you to be 30% more productive each day and that is the simple reason behind our choice."

Senior Land Surveyor, EKFB

"it always works" Benchmark Surveys

Choose from the Trimble R12i, R780 or R580

- They all offer survey grade accuracy.

- They are all compatible with Trimble Connect for easy transfer of field data back to the office and seamless integration with third party software packages such as n4ce and SCC and others.

- They are all compatible with Trimble Positioning Services like Trimble RTX, xFill, xFill Unlimited and VRS Now. (See below for more details on each service)

- They all have Trimble made and supported rugged state-of-the-art field controllers in both current Windows OS and Android versions.

So what's different?

In a nutshell:

The Trimble R12i is a premium survey GNSS offering dual Maxwell 7 Gen chip, fully loaded with all constellations, and can be used as a base and rover. Features include TiP technology (Trimble Inertial Positioning), ProPoint and xFill limited. It's the best-in-class GNSS receiver with tilt technology and all of these features are offered as part of the standard package.

The Trimble R780 is a scalable survey GNSS offering ProPoint, a single Maxwell 7 Gen chip and is upgradeable to enable Tilt and full constellations. It can be used in base and rover mode. Additionally it has an ultra-strong housing and an increased IP spec. . This is the perfect receiver to grow with your business.

The Trimble R580 will provide the best return on investment and an affordable way to buy into the Trimble brand. It's enabled with all constellations, ProPoint technology, and xFill Limited. However, it does not include TiP technology and is not upgradable.

	Special Features	Max. Precision	RTX Compatible	xFill	Satellites
Trimble R12i	ProPoint, TIP Tilt Compensation	8 mm H/15 mm V	Yes	Yes	GPS, GLONASS, Galileo, BeiDou, NavIC, QZSS, SBAS
Trimble R780	ProPoint, TIP Tilt Compensation	8 mm H/15 mm V	Yes	Yes	GPS, GLONASS, Galileo, BeiDou, NavIC, QZSS, SBAS
Trimble R580	ProPoint	10 mm H/20 mm V	Yes	Yes	GPS, GLONASS, Galileo, BeiDou, SBAS, QZSS

"The Trimble R12i has completely changed our attitude and approach to surveying with GPS, we're using it now in conditions that we would never have considered previously and are massively more efficient in the field"

Simply, we could not have completed this job within the time scale without the Trimble R12i"

Paul Henzell,
Managing Director, Three Sixty Group

40 years of development behind Trimble's GNSS portfolio

FAQ's

Which of these Trimble GNSS receiver models offer tilt compensation technology?
The Trimble R12i and Trimble R780 both offer Trimble Inertial Platform (TIP) IMU-based tilt compensation technology.

Which Trimble GNSS receiver models offer Trimble ProPoint GNSS technology?
The Trimble R12i, Trimble R780, and Trimble R580 GNSS receivers all come with Trimble ProPoint technology for increased performance in challenging GNSS environments, including close proximity to trees and in urban environments.

Which Trimble GNSS receiver models support Trimble RTX corrections?
All three models support Trimble RTX corrections, both via L-band (satellite) broadcast and over the internet.

RTX is a streaming service for corrections, managed by Trimble, which provides a correction service using a geostationary satellite- it does not require an internet connection. On the RTX streaming service there are two products that our GNSS portfolio can use, xFill and xFill unlimited.

What is Trimble xFill Limited
All three receivers offer Trimble xFill Limited as standard. This feature enables cm-levels corrections whenever the internet connection goes down for up to 5-10 minutes allowing surveyors to carry on working.

What is Trimble xFill Unlimited
This feature enables the GNSS to carry on working with satellite corrections, without internet, for an unlimited amount of time. However, the user needs to be connected first to a VRS network for this to work. Ask us about our current special offer on xFill unlimited.

What is Trimble VRS Now
Trimble VRS Now is a network of Continuously Operating Reference Stations (CORS), which provides users with cm-level corrections for their GNSS instruments, via the Internet. This enables users to work to cm-level anywhere there is a VRS network and a mobile internet signal. Trimble has additional permanent reference stations across the UK to strengthen the overall RTK solution, augmenting the network for increased accuracy and availability.

CONTACT US

Please do get in touch for further information on any of the products or services mentioned in this case study, a demonstration, support or just a chat about your requirements.

(UK) 0345 603 1214
(IRE) 01 456 4702

info@korecgroup.com
www.korecgroup.com

KOREC™

Trimble®
Authorised Dealer

Measured Solutions
Construction | Surveying | Mapping