E Trimble R12 GNSS SYSTEM



KEY FEATURES

+ + + + + + +

► Next generation Trimble® ProPoint™ GNSS positioning engine. Engineered for improved accuracy and productivity in challenging GNSS conditions.

+ + + + + + + + +

+ + + + + + + + + + + + + + +

+

- 672-channel solution with Trimble 360 satellite tracking technology
- ► Trimble SurePoint[™] tilt compensation and precise position capture
- Trimble xFill[®] correction outage technology
- Support for RTK level precision Trimble CenterPoint[®] RTX corrections technology
- ▶ Optimized for Trimble Access[™] field software
- ► Android[™] and iOS platform support
- Cellular, Bluetooth[®], Wi-Fi data connectivity
- Military-spec rugged design and IP-67 rating
- Ergonomic form factor
- > All day battery with built-in status indicator
- ► 6 GB internal memory

Learn more: geospatial.trimble.com/R12



| PERFORMANCE SPECIFICATIONS | | | |
|---------------------------------|---|--|--|
| GNSS MEASUREMENTS | | | |
| | Constellation agnostic, flexible signal tracking and improved
ProPoint GNSS technology | positioning ¹ in challenging environments with Trimble | |
| | Increased measurement productivity and traceability with T | rimble SurePoint eBubble tilt compensation | |
| | Advanced Trimble Custom Survey GNSS chips with 672 channels | | |
| | Reduced downtime due to loss of radio signal or cellular cor | nectivity with Trimble xFill technology | |
| | Signals tracked simultaneously | GPS: L1C, L1C/A, L2C, L2E, L5
GLONASS: L1C/A, L1P, L2C/A, L2P, L3
SBAS (WAAS, EGNOS, GAGAN, MSAS): L1C/A, L5
Galileo: E1, E5A, E5B, E5AltBOC, E6 ²
BeiDou: B1, B1C, B2, B2A, B3
QZSS: L1C/A, L1S, L1C, L2C, L5, L6
NavIC (IRNSS): L5
L-band: CenterPoint RTX | |
| | Iridium filtering above 1616 MHz allows antenna to be used u | up to 20 m away from iridium transmitter | |
| | Japanese LTE filtering below 1510 MHz allows antenna to be | used up to 100 m away from Japanese LTE cell tower | |
| | Digital Signal Processor (DSP) techniques to detect and rec | over from spoofed GNSS signals | |
| | Advanced Receiver Autonomous Integrity Monitoring (RAIM) algorithm to detect and reject problem satellite
measurements to improve position quality
Improved protection from erroneous entermeris data | | |
| | Positioning Rates | 1 Hz 2 Hz 5 Hz 10 Hz and 20 Hz | |
| | | 1112, 2112, 3112, 10112, and 20112 | |
| | | | |
| CODE DITIERENTIAL GINSST OSTHO | Horizontal | 0.25 m + 1 ppm RMS | |
| | Vertical | 0.50 m + 1 ppm RMS | |
| | SBAS ⁴ | typically <5 m 3DRMS | |
| STATIC CNISS SUDVEVING | | | |
| High Provision Statio | | | |
| nigh-Precision Static | Horizontal | 3 mm + 0.1 ppm RMS | |
| | Vertical | 35 mm + 0.1 ppm RMS | |
| Statio and East Statio | vertical | 3.5 mm + 0.4 ppm mm3 | |
| Static and Fast Static | Horizontal | 2 mm + 0.5 ppm PMS | |
| | Vertical | 5 mm + 0.5 ppm MS | |
| | Vertical | Smin+0.5ppmmis | |
| REAL TIME KINEMATIC SURVEYING | | | |
| Single baseline <30 km | Horizontal | 8 mm + 1 ppm DMS | |
| | Vortical | 15 mm + 1 ppm PMS | |
| Natural DTV5 | Vertical | 13 mm + 1 ppm (m3 | |
| Network RTK ³ | Horizontal | 8 mm ± 0.5 ppm PMS | |
| | Vortical | $15 \text{ mm} \pm 0.5 \text{ ppm} \text{RMS}$ | |
| RTK start-up time for specified | Vertical | 2 to 8 seconds | |
| TRIMBLE RTX™ TECHNOLOGY (SATEL | LITE AND CELLULAR/INTERNET (IP)) | | |
| CenterPoint RTX ⁷ | | | |
| | Horizontal | 2 cm RMS | |
| | Vertical | 5 cm RMS | |
| | RTX convergence time for specified precisions -
Worldwide | < 3 min | |
| | RTX QuickStart convergence time for specified precisions | < 5 min | |
| | RTX convergence time for specified precisions in select | <1min | |
| TRIMBLE XEILL ⁸ | | | |
| | Horizontal | RTK ⁹ + 10 mm/minute RMS | |
| | Vertical | RTK ⁹ + 20 mm/minute RMS | |
| | | | |

| HARDWARE | | | |
|--|--|--|--|
| PHYSICAL | | | |
| Dimensions (W×H) | 11.9 cm x 13.6 cm (4.6 in x 5.4 in) | | |
| Weight | 1.12 kg (2.49 lb) with internal battery, internal radio with UHF antenna,
3.95 kg (8.71 lb) items above plus range pole, Trimble TSC7 controller & bracket | | |
| Temperature ¹⁰ | | | |
| | Operating | -40 °C to +65 °C (-40 °F to +149 °F) | |
| | Storage | –40 °C to +75 °C (–40 °F to +167 °F) | |
| Humidity | | 100%, condensing | |
| Ingress protection | | IP67 dustproof, protected from temporary immersion to depth of 1 m (3.28 ft) | |
| Shock and vibration (Tested and meets the following environmental standards) | | | |
| | Shock | Non-operating: Designed to survive a 2 m (6.6 ft) pole
drop onto concrete.
Operating: to 40 G, 10 msec, sawtooth | |
| ELEOTRION. | Vibration | MIL-STD-810F, FIG.514.5C-1 | |
| ELECTRICAL | | | |
| | Power 11 to 24 V DC external power input with over-voltage protection on Port 1 and Port 2 (7-pin Lemo)
Rechargeable, removable 7.4 V, 3.7 Ah Lithium-ion smart battery with LED status indicators | | |
| | | | |
| | Fower consumption is 4.2 with KTK Tover mode within | | |
| Operating times on internal battery ²² | 450 MHz receive only ontion | 6.5 hours | |
| | 450 MHz receive transmit option (0.5 W) | 60 hours | |
| | 450 MHz receive/transmit option (0.5 W) | 5.5 hours | |
| | Cellular receive ontion | 6.5 hours | |
| | | | |
| COMMUNICATIONS AND DATA S | STORAGE | | |
| Serial | 3-wire serial (7-pin Lemo) | 3-wire serial (7-pin Lemo) | |
| USB v2.0 | Supports data download and high speed communications | | |
| | Fully Integrated, sealed 450 MHz wide band receiver/transmitter with frequency range of 403 MHz to 473 MHz, sup of Trimble, Pacific Crest, and SATEL radio protocols: | | |
| | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols: | ansmitter with frequency range of 403 Minz to 473 Minz, support | |
| Radio modem | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power | 2 W | |
| Radio modem | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range | 2 W
3–5 km typical / 10 km optimal ¹³ | |
| Radio modem
Cellular ¹⁴ | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM | |
| Radio modem
Cellular ¹⁴
Bluetooth | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵ | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/ | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports
Data storage | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports
Data storage
Data format | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b,g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3 | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports
Data storage
Data format | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modern, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b,g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports
Data storage
Data format
WEBUI | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports
Data storage
Data format
WEBUI | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output | |
| Radio modem
Cellular ¹⁴
Bluetooth
Wi-Fi
I/O ports
Data storage
Data format
WEBUI | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs
Offers simple configuration, operation, status, and data
Accessible via Wi-Fi, Serial, USB, and Bluetooth | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output | |
| Radio modem Cellular ¹⁴ Bluetooth Wi-Fi I/O ports Data storage Data format WEBUI SUPPORTED CONTROLLERS & FIELD | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs
Offers simple configuration, operation, status, and data
Accessible via Wi-Fi, Serial, USB, and Bluetooth
SOFTWARE | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output | |
| Radio modem Cellular ¹⁴ Bluetooth Wi-Fi I/O ports Data storage Data format WEBUI SUPPORTED CONTROLLERS & FIELD | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b,g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs
Offers simple configuration, operation, status, and data
Accessible via Wi-Fi, Serial, USB, and Bluetooth
SOFTWARE
Trimble TSC7, Trimble T10, Trimble T7, Android and iOS | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output
a transfer
devices running supported apps | |
| Radio modem Cellular ¹⁴ Bluetooth Wi-Fi I/O ports Data storage Data format WEBUI SUPPORTED CONTROLLERS & FIELD | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b.g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs
Offers simple configuration, operation, status, and data
Accessible via Wi-Fi, Serial, USB, and Bluetooth
9 SOFTWARE
Trimble TSC7, Trimble T10, Trimble T7, Android and iOS
Trimble Access 2019.10 or later | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output
a transfer
devices running supported apps | |
| Radio modem Cellular ¹⁴ Bluetooth Wi-Fi I/O ports Data storage Data format WEBUI SUPPORTED CONTROLLERS & FIELD CERTIFICATIONS | Fully Integrated, sealed 450 MHz wide band receiver/tr
of Trimble, Pacific Crest, and SATEL radio protocols:
Transmit power
Range
Integrated, 3.5 G modern, HSDPA 7.2 Mbps (download)
UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/
CSD, 3GPP LTE
Version 4.1 ¹⁵
802.11 b,g, access point and client mode, WPA/WPA2/
Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth
6 GB internal memory
CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3
24 NMEA outputs, GSOF, RT17 and RT27 outputs
Offers simple configuration, operation, status, and data
Accessible via Wi-Fi, Serial, USB, and Bluetooth
0 SOFTWARE
Trimble TSC7, Trimble T10, Trimble T7, Android and iOS
Trimble Access 2019.10 or later | 2 W
3–5 km typical / 10 km optimal ¹³
, GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band
2100 MHz, Quad-band EGSM 850/900/1800/1900 MHz, GSM
WEP64/WEP128 encryption
.1, RTCM 3.2 input and output
a transfer
devices running supported apps | |

Trimble.

Trimble R12 GNSS SYSTEM



- 1 Challenging GNSS environments are locations where the receiver has sufficient satellite availability to Challenging GNSS environments are locations where the receiver has sufficient satellite availability to achieve minimum accuracy requirements, but where the signal may be partly obstructed by and/or reflected off of trees, buildings, and other objects. Actual results may vary based on user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability, and level of multipath and signal occlusion. The current capability in the receivers is based on publicly available information. As such, Trimble cannot the current capability in the receiver of the competition of the context of the current capability and level of the context of the current capability in the receiver of the current capability is the formation.
- 2
- The current capability in the receivers is based on publicly available information. As such, Tirmble cannot guarantee that these receivers will be fully compatible with a future generation of Galileo satellites or signals.
 Precision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. The specifications stated recommend the use of stable mounts in an open sky view. EMI and multipath closen environment, optimal GNSS constellations, along with the use of survey practices that are generally accepted for performing the highest-order surveys for the applicable application including occupation times appropriate for baseline length. Baselines longer than 30 km require precise ephemeris and occupations up to 24 hours may be required to achieve the high precision static specification.
 Depends on SBAS system performance.
 Network BTK PEM values are referenced to the closest physical base station.
- Network RTK PPM values are referenced to the closest physical base station
- Network NIK PPM values are referenced to the closest physical base station.
 May be affected by atmospheric conditions, signal multipath, obstructions and satellite geometry. Initialization reliability is continuously monitored to ensure highest quality.
 RMS performance based on repeatable in field measurements. Achievable accuracy and initialization time may vary based on type and capability of receiver and antenna, user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability and level of multipath including obstructions such as large trees and buildings.
 Accuracies are dependent on GNSS satellite availability.xFill positioning without a Trimble CenterPoint RTX subscription and affects found are diading during without a Trimble CenterPoint RTX.
- Accurates are dependent on civits stateme availability. Armit positioning without a infinite Genetroint RTX subscription ends after 5 minutes of radio downtime. Krill positioning with a CenterPoint RTX subscription will continue beyond 5 minutes providing the Trimble RTX solution has converged, with typical precisions not exceeding 6 cm horizontal, 14 cm vertical or 3 cm horizontal, 7 cm vertical in Trimble RTX fast regions. XFill is not available in all regions, check with your local sales representative for more information.
 9 RTK refers to the last reported precision before the correction source was lost and XFill started.
 10 Receiver will operate normally to -40° C, internal batteries are rated from -20° C to +60° C (ambient +50°C).
 11 Tracking GPS, GLONASS and SBAS satellites.
- Iracking GPS, GLONASS and SBAS satellites.
 Iz Varies with temperature and wireless data rate. When using a receiver and internal radio in the transmit mode, it is recommended that an external 6 Ah or higher battery is used.
 Varies with terrain and operating conditions.
 Ue to local regulations, the integrated cellular modem cannot be enabled in China, Taiwan, or Brazil. A Trimble controller integrated cellular modem cannot be used to obtain GNSS corrections via an IP (Internet Protocol) connection.
 Bluetooth type approvals are country specific.

EUROPE

GERMANY

Trimble Germany GmbH

Am Prime Parc 11

65479 Raunheim

Specifications subject to change without notice





ASIA-PACIFIC

Trimble Navigation Singapore PTE Limited 3 HarbourFront Place #13-02 HarbourFront Tower Two Singapore 099254 SINGAPORE

Contact your local Trimble Authorized Distribution Partner for more information

© 2019–2021, Trimble Inc. All rights reserved. Trimble, the Globe & Triangle logo, CenterPoint, and XFIII are trademarks of Trimble Inc., registered in the United States and in other countries. Access, ProPoint, SurePoint, Trimble RTX and VRS are trademarks of Trimble Inc. iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. Google Play, and other marks are trademarks of Google LLC. Wi-Fi is a registered trademark of Wi-Fi Alliance. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Trimble Inc. is under license. Galleo is developed under a License of the European Union and the European Space Agency. All other trademarks are the property of their respective owners. PN 022516-481D (07/21)

NORTH AMERICA

10368 Westmoor Dr

Westminster CO 80021

Trimble Inc.

USA

www.trimble.com

