

Trimble LEAP

GNSS RECEIVER



POSITIONING PERFORMANCE¹ (RTX MODE)

- Better than 1 meter 95% realtime horizontal with Trimble ViewPoint RTX
- Requires Android (Version 3.0, Honeycomb or better) or iOS (Version 7 or better) device with cellular or WiFi connectivity and Bluetooth
- Requires 3 minutes convergence time²

SBAS MODE³

- 2 meter 95% real-time horizontal with SBAS in open areas

POSITION, VELOCITY, TIME OUTPUTS⁴

- NMEA messages: GGA, GLL, GNS, GSA, GSV, RMC, VTG, DTM, ZDA
- Talker ID's: GL,GN,,GP where applicable
- Output rate: 1Hz, 2Hz, 5Hz, 10Hz user selectable

DATUM

- WGS84 (G1674), ITRF2008, Epoch 2005.0

ATTITUDE OUTPUT

- Roll and Pitch better than 1 degree, heading better than 2 degrees, when fully calibrated by the end user.
- Output Rates: 10Hz, 50Hz, 200Hz, user selectable

MOBILE DEVICE COMPATIBILITY

The Trimble Leap GNSS Receiver currently supports Android phones and tablets. We are working on iPhone and iPad support. Purchase includes two apps: Trimble Leap and TNP Mobile.

HARDWARE

Physical

Dimensions (WxLxH)	85mm x 85mm x 43mm
Weight	9.5 ounces (269 grams)
GNSS Antenna and Ground Plane	70mm x 70mm

STORAGE

- Ships with 1GB capacity micro SD card
- Field Replaceable micro SDHC card up to 32 GB capacity

USB

- Micro B type connector
- USB charging from 100ma, 500 ma, and 1,000ma sources
- Ships with USB cable for charging from a computer
- Compatible with USB vehicle charging adaptors, wall plugs, and add on batteries

LEARN MORE

See photos and more at: TrimbleLeap.com

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Specifications subject to change

1. All accuracy specifications assume low dynamics applications with velocities under 10 meters/second and accelerations under 0.2 g. 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 clean environment, optimal GNSS constellations.
2. Receiver convergence time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees and buildings. Convergences times decrease significantly when using an "RTX Quickstart" on a previously surveyed point or a known survey control point.
3. Depends on WAAS/EGNOS system performance.
4. NMEA messages are available in SBAS and basic modes. NMEA is not available in RTX mode.

POWER AND BATTERY

Type	Built-in rechargeable lithium polymer
Capacity	3800 mAh at 3.7v
Field Battery Life	16 hours at 20 degrees Celsius 8 hours at -20 degrees Celsius
Charge time	5 hours from 1000 mAh USB wall plug 10 hours from 500 mAh computer USB plug
External Power	Continuous via micro USB

TEMPERATURE

Operating on Battery	
Smartphone or Range Pole	-20 to 50 degrees Celsius
Mounted on Vehicle Roof	-20 to 43 degrees Celsius
On USB power	-20 to 60 degrees Celsius
Charging	< 40 degrees Celsius
Storage	
Less than 3 months	-20 to 40 degrees Celsius
Less than one year	-20 to 25 degrees Celsius

Recharge battery every 6 months to maintain life

Ingress Protection

IP62 ONLY when rubber access door is securely installed.
Mil-Std-810G, Method 516.6,

Shock

Procedure V, run at 40g's, 10ms, Sawtooth, 3 axes
Procedure IV (performed at a 1 meter drop height)
Vibration Mil-Std-810G, Method 514.6, Procedure I,
Curve 516.6C-1, 32 minutes in each of 3 axes

CONNECTIVITY

Bluetooth v2.1 + EDR, Class 2 supporting SPP	One connection at a time is permitted
Protocols	Bidirectional NVS BINR protocol RTCM 2.3 reception NMEA output

MOUNTING

Purchase includes two mounts: Smartphone Mount and Pole Mount

CERTIFICATIONS

FCC Part 15 (Class B device)

SUBSCRIPTIONS

The Trimble Leap includes a 60-day trial subscription to Trimble ViewPoint RTX. After trial period, Trimble ViewPoint RTX is \$150/year. The Leap also includes a 1-year subscription to TNP Leap Connect services (a \$100 value), which includes the TNP Mobile app and ability to view, share, and export data collected in the field on terrainnavigator.com.

CONTACT SALES

For more questions, please contact your SECO sales rep or our sales team at: TrimbleLeap.com.



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