Polaris RTK

The world's largest, professionally-run RTK corrections network. Get unmatched coverage, accuracy, and security. True RTK meets the most demanding requirements for precision and convergence. Virtual RTK gives you consistent coverage and value for fleets at scale.

FEATURES

1-3 centimeter
Horizontal and vertical accuracy

Immediate fix time
Instant convergence with True RTK

Global coverage Available across the US, UK, EU, KOR, AUS, NZ, and JP

99.9% uptime Daily monitored and maintained base stations

RTCM correction data via NTRIP or custom API

Includes access to Virtual RTK, Leveraging SSR technology

GraphQL API access One powerful endpoint for total fleet control

Fully redundant cloud infrastructure, State-of-the-art cybersecurity

Survey grade installation Daily monitored security, power, and connectivity redundancy

Signal tracking across GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS, and EGNOS.

RTCMv3.2 in the ITRF2024 Datum (most recent epoch)

BENEFITS

Real-time access to precise location data without the need to post process

Positioning accuracy down to the centimeter on all RTK enabled devices

Access to over thousands of RTK Corrections base stations

Track four constellations: GPS, Glonass, Galileo, & Beidou

Base stations designed, manufactured, assembled in the USA

Integrate GraphQL API enabling serverless and code-free applications

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TECHNICAL SPECIFICATIONS

Signal Tracking	GPS: L1C/A, L2P codeless, L2C , L5 GLONASS: G1, G2, BeiDou: B1-I, B1-C, B2-I, B2a, B2b, B3I Galileo: E1, E5b, E5a QZSS (where applicable): L1 C/A, L2, L5
Data Format	RTCMv3.2 MSM4
Station Survey Accuracy	<0.1cm Horizontal <0.1cm Vertical
Rover Accuracy	1-3 cm (True RTK) <10 cm (Virtual RTK)
Latency	<<5s (defined as duration between station measurement and delivery to device)
Availability	99.99% (Aggregate Network) Visit https://status.pointonenav.com/uptime/ for real-time udpates

DATUMS

REGION	DATUM	EPOCH	REALIZATION
Global	ITRF2014	Current	ITRF2014
United States	NAD83	2010.0	2011
Hawaiian Islands	NAD83	2010.0	PA11
Guam Northern Marianas	NAD83	2010.0	MA11
Canada	NAD83	2010.0	CSRSv7
New Zealand	NZGD2000	2000.0	20180701
Australia	GDA2020	2020.0	ITRF2014
Continental Europe	ETRS89	2010.0	ETRF2000
Netherlands	ETRS89	2010.5	ETRF2000
UK	ETRS89	2009.756	ETRF97
South Korea	KGD2002	2002.0	ITRF2000
Japan	JGD2011	2011.395/1997.0	Dynamic

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