CHCNAV

Geospatial

PointSky

Satellite-Based GNSS Correction Service

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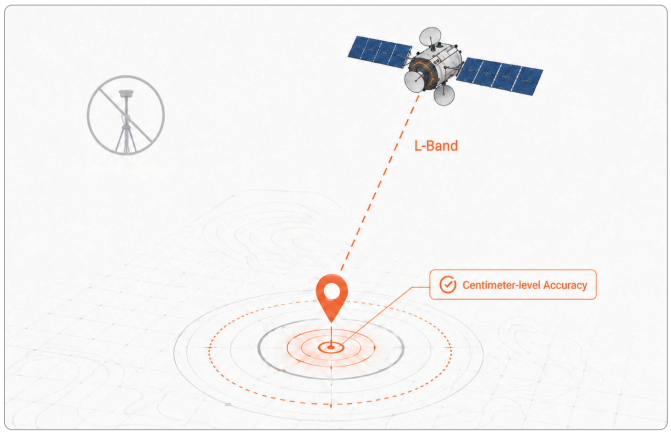
PointSky is a high-accuracy, real-time GNSS correction service delivering centimeter-level positioning without the need for a local base station. Using data from a global network of GNSS reference stations and advanced PPP-based correction algorithms, PointSky models and corrects key GNSS error sources, including satellite orbit, clock, hardware bias, and atmospheric delays.

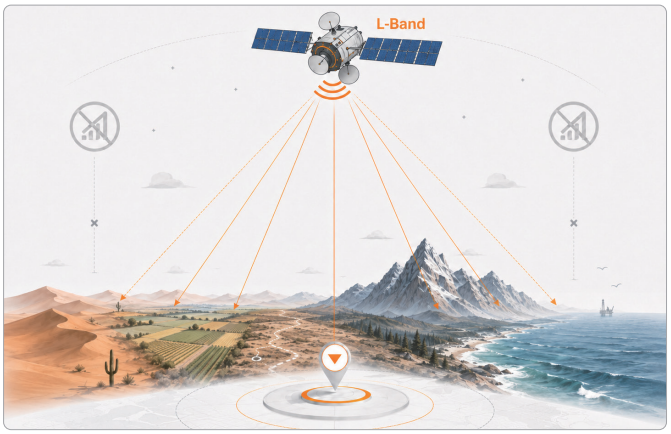
Corrections are delivered via geostationary satellites maintaining reliable positioning performance in remote, offshore, and network-limited environments. From surveying and mapping to precision agriculture, robotics, UAV operations, and autonomous systems, PointSky provides scalable correction access for field operations that require stable, high-accuracy positioning.

High-Precision Positioning



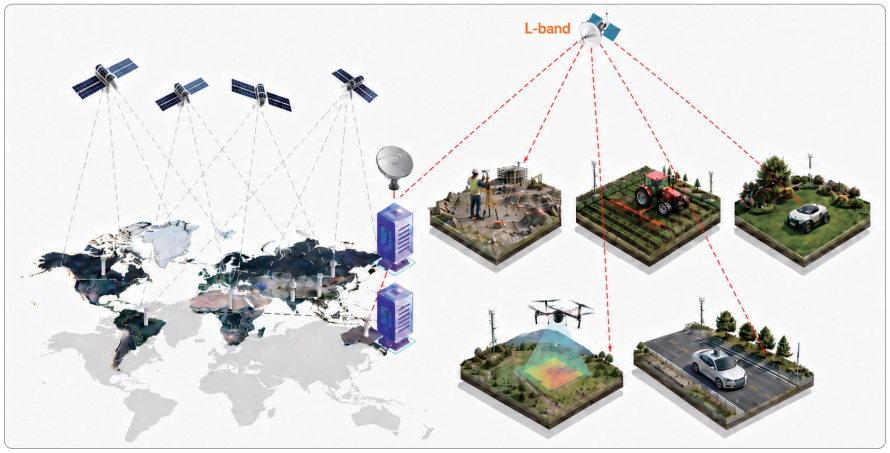
PointSky delivers centimeter-level GNSS positioning through L-Band satellite correction broadcast. In selected service regions, users can achieve RTK-level accuracy in as fast as 1 minute, enabling faster field startup without deploying local correction infrastructure.

Reliable Operation in Network-Limited Environments



PointSky corrections are transmitted via geostationary satellites, enabling high-accuracy GNSS positioning where cellular coverage, internet access, or local RTK infrastructure may be limited. It is suited to remote surveying, offshore operations, deserts, mountainous areas, large farms, and other field environments where network access cannot be assumed.

Operational Efficiency and Reduced Downtime



By eliminating local base station setup and reducing dependence on cellular correction delivery, PointSky helps field teams mobilize faster and work with fewer infrastructure constraints. Stable correction availability supports more efficient surveying, mapping, agriculture, UAV, robotics, and autonomous operation workflows.

Key feature

Wide Coverage
Satellite or internet delivery with wide coverage.

Centimeter-level Accuracy
< 2 cm Horizontal and < 3 cm Vertical (1σ)

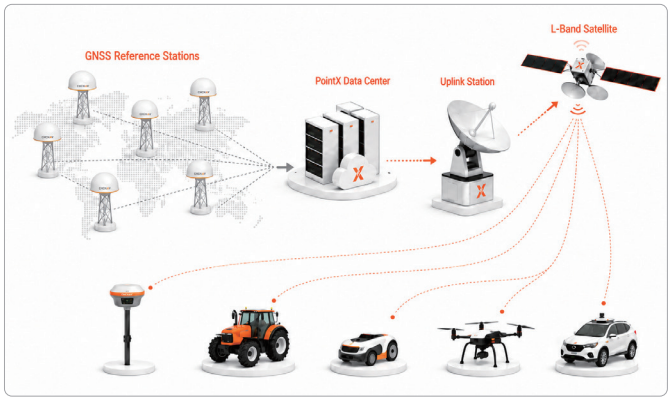
Rapid Convergence
Converges to full accuracy in 1 to 5 minutes.

Extended Uptime
Maintains positioning accuracy during temporary correction signal interruptions for up to 300 seconds.

Easy to Use
No local base station, no complex setup. Power on the receiver and start working.

Integrity Assurance
Detects, bounds, and alerts users to GNSS correction errors in real time

No Local Base Station Required

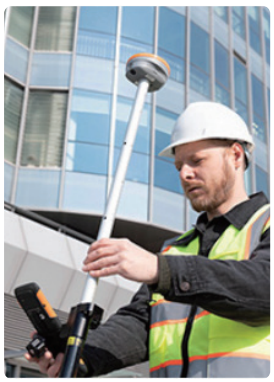


PointSky reduces dependence on local base stations by using PPP-based satellite correction technology. Compatible CHCNAV GNSS receivers can receive corrections directly via L-Band satellite broadcast, simplifying field setup and reducing the need for additional reference station equipment.

High Availability

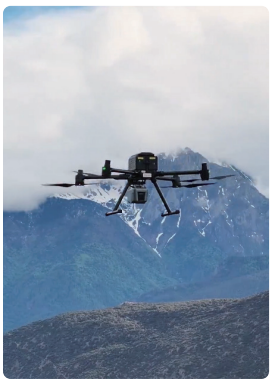
With service availability above 99.9%, PointSky is designed for reliable correction delivery and real-time integrity monitoring in supported service regions. Its satellite-based architecture helps maintain positioning continuity for professional GNSS applications where communication interruptions can affect productivity.

Applications


Surveying and Mapping


Precision Agriculture


Robotics


UAV Operations


Autonomous Driving

SPECIFICATIONS

▶ PointSky

Accuracy [1]	Horizontal: < 2 cm (1σ), < 3 cm (2σ) Vertical: < 3 cm (1σ), < 7 cm (2σ)
Convergence Time [2] **(CEP95)**	< 3 min in selected regions; < 5 min standard; as fast as < 1 min under optimal conditions
Coverage [3]	Network broadcast covers the global, while satellite broadcast covers Asia, Eastern Europe, Eastern Africa, Australia, and the Americas
Supported GNSS Signals	GPS: L1, L2, L5 GLONASS: L1, L2 BDS: B1I, B3I, B1C, B2a Galileo: E1, E5a, E5b QZSS: L1, L2, L5
Availability	≥ 99.9%
Uptime During Interruption	> 300 s
Communication	L-Band (Satellite) Cellular (Internet)
Satellite Disaster Recovery	Support
Data Broadcasted	Orbit, Clock, Bias; Atmospheric corrections available in selected regions
Data Format	Proprietary format
Integrity	Integrity Risk: ≤ $1*10^{-5}$ /h Alert Limit: < 0.2 m Time to Alert: < 10 s (Satellite); < 2 s (Internet)
Supported Devices [4]	CHCNAV devices only: selected GNSS receivers, GNSS modules, and agricultural auto steering systems

***Specifications are subject to change without notice.**

(1) Positioning accuracy and performance are influenced by antenna/module capabilities and type, ionospheric/tropospheric conditions, and local obstructions.
(2) Actual convergence time may vary depending on service region, satellite visibility, environment, ionospheric conditions, and receiver model.Subject to the information released by CHCNAV.
(3) Please refer to the official coverage map for detailed information.
(4) For specific device models, please consult CHCNAV staff.

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