

PointNet

GNSS NRTK Correction Service

 POINTX



► GNSS NRTK Correction Service

PointNet is an internet-based GNSS correction service delivering real-time centimeter-level positioning through NTRIP. Built on CHCNAV GNSS expertise, PointNet provides reliable correction access for surveying, mapping, construction, precision agriculture, and other high-accuracy field applications. By leveraging a wide network of GNSS reference stations, PointNet enables users to work efficiently without setting up a local base station. When used with compatible CHCNAV receivers, modules, and terminals, it provides an integrated correction-service experience with easy activation and positioning performance.



► Reliable Multi-Region Coverage



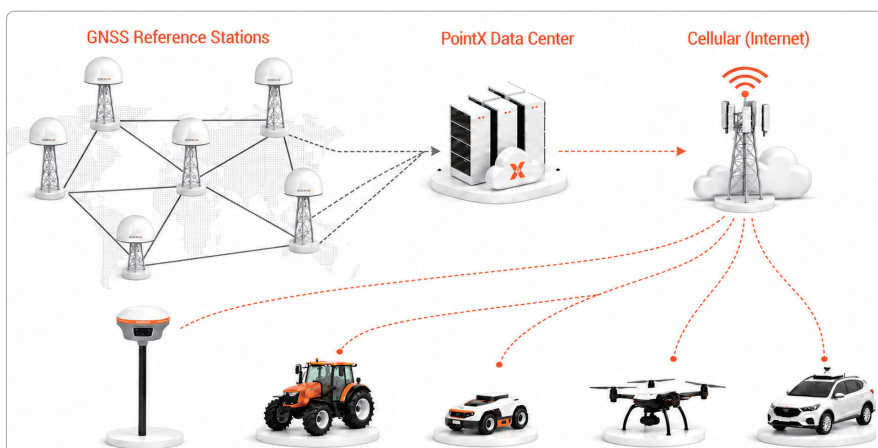
PointNet is supported by a network of 10,000+ GNSS reference stations. More than 99.5% of stations support full-constellation and full-frequency data, using high-precision reference receivers and antennas to provide stable correction input for professional positioning services.

► Proven and Trusted



PointNet is trusted by more than 1 million professionals worldwide. Its microservice-based architecture supports signal reception, data processing, and correction-service dissemination, while 24/7 system monitoring maintains continuous reliability. Redundant cloud backups further support service continuity and operational resilience.

► No Local Base Station Required



PointNet removes the need to deploy and maintain a local GNSS base station. By delivering centimeter-level corrections via cellular (internet), it reduces equipment setup, simplify field logistics, and improves operational efficiency.

► Key feature



Wide Coverage

Available across Europe, Brazil, Australia, New Zealand, China, and other supported regions.



High Accuracy

Centimeter-level accuracy: < 2 cm Horizontal and < 3 cm Vertical (1 σ).



High Service Availability

Built on redundant infrastructure to support continuous field operation.



Scalable Access

Support massive number of simultaneous users with high correction-service performance.



Easy to Use

No local base station or complex setup required. Connect and start working.



Seamless Compatibility

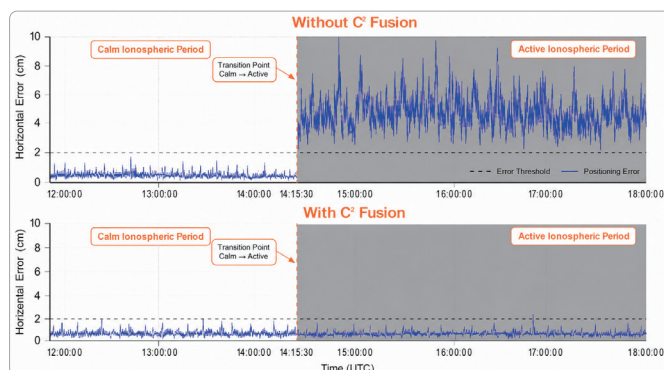
Supports RTCM 3.x and NTRIP protocols.

► Easy to Use



PointNet integrates seamlessly with compatible CHCNAV devices and supports One-Click fixed. Users can check account validity and service coverage directly from supported terminals, without relying on third-party websites or additional configuration tools.

► Reliable Performance Under Ionospheric Disturbances



PointNet is designed to maintain stable positioning performance under challenging ionospheric conditions. The CHCNAV C² Fusion algorithm, available on compatible CHCNAV devices, integrates cloud-side correction processing with terminal-side optimization, improving positioning stability by up to 40% during active ionospheric periods.

► Applications



Survey and Mapping



Precision Agriculture



Robotics



UAV



Autonomous Driving

SPECIFICATIONS

► PointNet

Accuracy ⁽¹⁾	Horizontal: < 2 cm (1σ), < 3 cm (2σ) Vertical: < 3 cm (1σ), < 5 cm (2σ)
Convergence Time	Instant access to network corrections
Coverage ⁽²⁾	Europe, Brazil, Australia, New Zealand, China, and other supported regions
Supported GNSS Signals	GPS: L1, L2, L5 GLONASS: L1, L2 BDS: B1I, B3I, B1C, B2a Galileo: E1, E5a, E5b, E6 QZSS: L1, L2, L5
Coordinate System ⁽³⁾	ITRF2020, ETRS89, WGS84, and selected regional coordinate reference systems
Availability	≥ 99.99%
Delivery	Cellular (Internet)
Broadcast Interval	1 Hz
Data Format	RTCM 3.X / Proprietary format ⁽⁴⁾
Service Mode	Virtual Reference Station, Nearest
Connection Protocol	NTRIP
Concurrency Level	Concurrent Connections > 10 ⁶

*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) Please refer to the official coverage map for detailed information.

(3) Availability may vary by country, region, and selected mountpoint.

(4) The proprietary format requires compatible CHCNAV proprietary modules or terminals. For specific device models, please consult CHCNAV staff.

