Product summary

PointPerfect Global

Global PPP-AR GNSS correction service

Seamless worldwide coverage for truly global solutions

PointPerfect Global delivers GNSS corrections data with seamless worldwide coverage via both Internet and L-band satellite, enabling high-precision positioning globally and even in the most remote regions.

The service provides an ideal solution for customers in segments such as precision agriculture, outdoor robotics, automotive and UAV applications like mapping and inspection.

Robust and reliable performance

- Advanced PPP-AR technology provides convergence to <10 cm accuracy in just 1–2 minutes for near real-time, robust positioning.
- Leveraging all major GNSS constellations to maximize accuracy and reliability and ensure consistent performance in any environment.
- 99.9% uptime availability with 24/7 monitoring and support, for the most demanding applications.
- u-blox is a trusted industry leader in GNSS and RTK technology.

Easy, flexible, scalable

- Fully integrated with the u-blox X20 RTK platform, including native L-band reception for out-of-the-box readiness.
- Zero Touch Provisioning (ZTP) to configure devices at scale
- Delivery over both Internet and satellite L-band broadcast.
- Low data bandwidth for optimized mobile connectivity and reduced operational costs, when accessing corrections through cellular networks.

Global coverage

- Seamless worldwide coverage via both internet and L-band satellite, ideal for precision agriculture, outdoor robotics, and UAV applications like mapping and inspection.
- Reliable high-precision positioning even in the most remote regions.

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Precise positioning applications

With seamless worldwide coverage via both internet and L-band satellite, PointPerfect Global is ideally suited for use cases such as precision agriculture, outdoor robotics, automotive and UAV applications like mapping and inspection.

Automotive

Autonomous mobile robotics

Precision agriculture

Unmanned aerial vehicles (UAV)

PointPerfect Global specification

Data format	SPARTN
Technology	Advanced PPP-AR (SSR)
Horizontal accuracy[1]	<10 cm
Initialization or convergence time[2]	1-2 minutes
Coverage	Worldwide
Reference frame	ITFR2020
GNSS signal support[3]	GPS: L1, L2, L5 Galileo: E1, E5, E6 BeiDou: B1, B2, B3 GLONASS: G1, G2
Communication methods	Internet, satellite L-band broadcast

[1]The specifications are based upon field and laboratory testing. Accuracy and convergence time may be affected by user hardware type (antenna/receiver), available GNSS constellation (PDOP) and site conditions.

[2]Performance may be degraded in conditions with high Ionospheric activity, extreme multipath, or under dense foliage. For maximum system accuracy, always follow best practices for GNSS data collections.

Useful links

Web page:	**www.u-blox.com/product/pointperfectglobal**
Thingstream platform	**portal.thingstream.io/register**

u-blox products supporting PointPerfect Global

ZED-X20P high precision GNSS module

ZED-X20P EVK

Further information

Contact us: **www.u-blox.com/contact-u-blox-services**.

For more details, see **www.u-blox.com/product/pointperfectglobal**.