Real time

RTK Premium

Continuity for survey-grade operations that cannot stop.

< 1.5 / 2.5 cm
Precision, horizontal / vertical

99.9%
Availability SLA

< 2 h
Support response

35+ countries
7,500+ base stations

Coverage map
premium-positioning.com/coverage

Independent network tests
rtktest.com

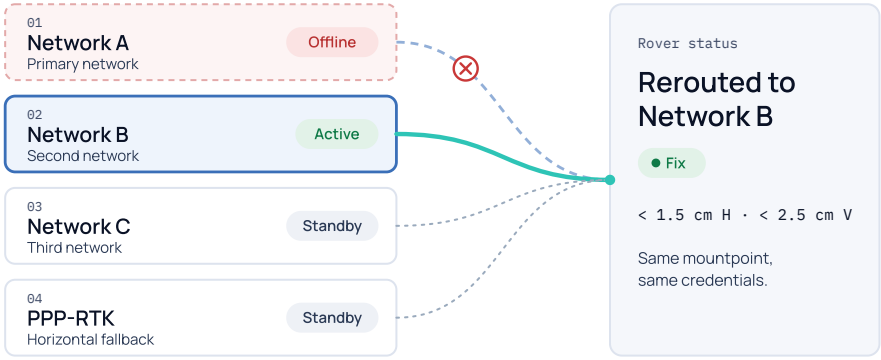
01 Overview

RTK Premium keeps survey-grade operations running when a correction network drops.

- The 99.9% SLA and its graduated cash refund apply where networks are redundant. Elsewhere, the service is best effort.
- RTK Core and RTK Access are included.

02 How it works

Where several networks cover the area, RTK Premium switches the rover to the next source as soon as one drops. In the example below, Network A goes offline and the rover moves to Network B.



03 Applications

Survey Crews keep measuring when one network has an outage.	**Construction** Machine control holds its grade without interruption.
Professional UAV Flights keep their fix from take-off to landing.	**Robotics** Robots keep working where downtime puts people at risk.

04 Specifications

Time to fix	A few seconds
Technology	Redundant NRTK, smart failover
Coverage	Redundant networks in Europe, North America and Australia. Other RTK Core regions on a single network. Map: premium-positioning.com/coverage
Formats	RTCM 3.x
Protocols	NTRIP v1, v2
Options, at extra cost	L-band
Licence	Monthly or yearly

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05 Technical details

GNSS	GPS, GLONASS, Galileo, BeiDou, where the local network tracks them
Network	7,500+ base stations, about 50 km typical baseline
Correction type	Network RTK, generated for the receiver position
Correction rate	1 Hz
Position input	NMEA GGA from the receiver
Compatible receivers	Any RTK receiver with an NTRIP client

06 Reference frames

Europe	ETRS89, national realisation. For more details, contact us.
United States	NAD83(2011), epoch 2010.0; Hawaii NAD83(PA11)
Canada	NAD83(CSRS), epoch 2010.0
Japan	ITRF2008, epoch 2005.0
Australia	GDA2020, epoch 2020.0

07 Service conditions

Availability SLA	99.9% monthly, in areas covered by redundant networks
Refund	Graduated cash refund when monthly uptime falls under the SLA
Other areas	Best effort, on a single network
Support	< 2 h response. Business days, 09:00–17:00 CET, or Eastern time for US clients

Precision and time to fix are typical figures in good conditions.