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CPS

GNSS NETWORK SOFTWARE

NAVIGATION & INFRATRUCTURE

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ADVANCED GNSS CORS AND RTK NETWORKS SOLUTION

CPS is an advanced server-based software solution package to control and manage regional and nationwide GNSS CORS and RTK networks. CPS is the result of years of scientific development and technical qualification. With optimized analysis of GNSS positioning errors such as ionospheric, tropospheric, orbit and multipath errors, CPS computes and outputs high quality RTK corrections from single base up to virtual network base solution. Supporting direct TCP/IP and NTRIP protocols as well as embedded user's management, CPS is the solution to deliver local to large-scale reliable CORS and RTK network services.

RTK CORRECTIONS SERVICES AT REACH

Integrate data stream, core computation and user management modules.

CPS modular framework provides extreme stability and scalability of your RTK correction services. The CHCStream module streams the GNSS raw data from the GNSS reference stations to the CPS Software Core which computes RTK corrections, ensures real-time quality control and manages user's subscription. The CPSCaster module provides unified users access to the available RTK Networks. CPSWEB ensures comprehensive users management platform including LBS, data plan, online subscription and front-end management of the GNSS networks.

ADVANCED NETWORK RTK ALGORITHMS

Combining a series of real-time modules.

CPS quality control module monitors the GNSS data quality in real time for each reference station. The data storage module converts the GNSS raw data to RINEX or Binary data. The advanced GNSS corrections modules computes optimized RTCM RTK corrections.

HIGH ACCURACY FULL-GNSS POSITIONING SERVICES

Industry standard RTCM corrections ensure multi-brand compatibility.

CPS integrates all GNSS constellations -GPS, GLONASS, Galileo and BeiDou- to provide ultimate full-GNSS RTK positioning services to users. CPS is compatible with industry standard GNSS receiver models to enable the integration of existing reference stations in addition to CHCNAV's GNSS reference stations.

TURNKEY WEB MANAGEMENT FOR RTK CORRECTION SERVICES

Ready-to-use RTK Network and subscription management.

Setting up your Network RTK is simplified with our CPS web-based management console. CPS Web is built around seven modules: RTK network configuration, SMS or email alerts, users management, subscription management including service packages, real-time reference station monitoring, GNSS data management and a location base system (LBS) module to monitor users in real-time.

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GNSS RTK NETWORK SOFTWARE SOLUTION

RTK
Corrections

Advanced
Algorithms

Full-GNSS
Positioning Services

Turnkey
Web Management

SPECIFICATIONS

System Recommendations	
Operating system	Microsoft Windows (1) 7, 8, 8.1, 10 (32-bit and 64-bit) Microsoft Windows (1) server 2008, 2012 (32-bit and 64-bit)
Runtime library	.Net Framework 4.0 runtime
Database	SQL server 2008 or higher version (32-bit and 64-bit)
Hardware	
Processor	Dual-core for less than 20 stations Quad-core for less than 40 stations 2.5 GHz or higher (Minimum) Eight-cores for more than 50 stations (Recommended)
RAM	8 GB for less than 20 stations, 16 GB for less than 40 stations, 32 GB for more stations
Hard disk	200 MB for CPS software package approx. 100 MB storage space per day per station (depending on number of tracked satellites)

Recommend Browser
Microsoft Internet Explorer 10 or higher
Google Chrome
Software License
USB dongle driver
Software registration code
Supported Language
French
English
Traditional Chinese
Simplified Chinese
Russian

*All specifications are subject to change without notice.
(1) Under Microsoft Windows, requires Administrator Privileges.