

TersusPNW Software

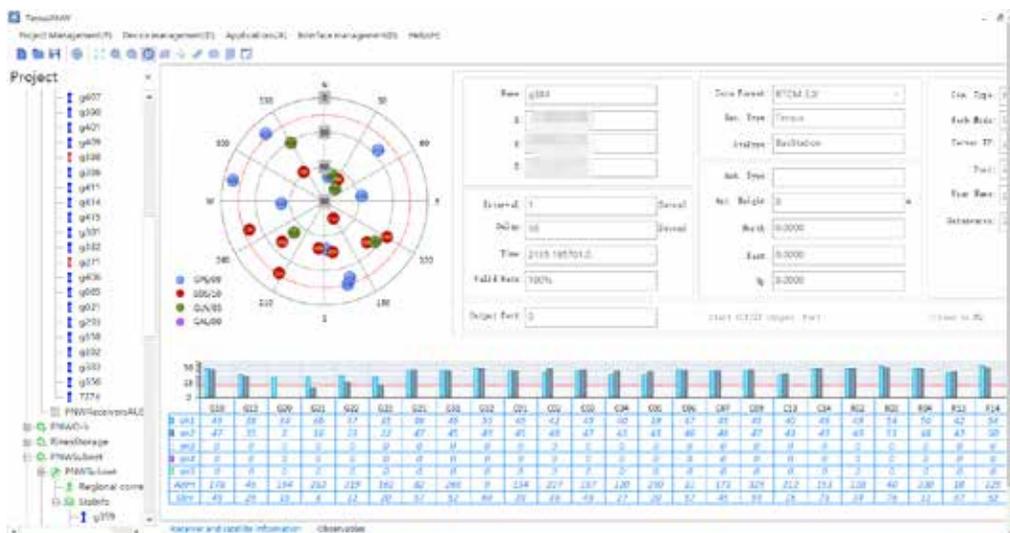
Tersus PreciseNetWork RTK System Management and Positioning Service Software

Overview

The TersusPNW software is a high accurate CORS Network management and positioning service software with optimized algorithms independently developed by Tersus GNSS Inc. The software can effectively model errors caused by ionosphere, troposphere and satellite orbit, and precisely estimate correction at the rover. It enables the rovers to achieve fast real-time positioning with centimeter accuracy. The stability and reliability of TersusPNW software has been approved by maintaining large-scale CORS network.

Key Features

- ✓ User-friendly interface
- ✓ Supports virtual grid
- ✓ Supports data stream forwarding
- ✓ Supports multi-method integrity monitoring
- ✓ Supports user and mount point configuration
- ✓ Supports adding, deleting, modification, status checking and data storage for different bases
- ✓ Supports adding, deleting, modification, status checking and virtual point for subnet
- ✓ Supports 7X24 hours operation with 99.9% output reliability
- ✓ Supports up to 20000 users and 5000 concurrent transmission
- ✓ Supports up to 1000 bases
- ✓ Supports processing 8 subnets simultaneously



Tersus GNSS TersusPNW Software

Technical Specifications

System Requirements

Operating System:	Microsoft Windows 7, 8, 10 or later version Windows Server 2019 operating systems (64 bit)
Processor	
- Minimum:	Intel Core i3
- Recommended:	Intel Core i5
RAM	
- Minimum:	4GB
- Recommended:	8GB
Hard Disk	
- Minimum:	10GB
- Recommended:	1TB
Graphics Card	
- Minimum:	Direct X9 compatible integrated graphics
- Recommended:	Direct X9 compatible 2GB discrete graphics
Internet Connection:	Ability to originate both http and https (SSL) connections

Language Supported

English
Chinese simplified

Reliability

Long time run with an output reliability of 99.9%

Software License

Software activation code
Different brands and models of receivers can be included in the software as reference stations without requiring a license fee

Software Capability

Reference Station Quantity ⁽¹⁾ :	Up to 1000 bases(at the same time)
Virtual Servers Using Virtual Cores ⁽²⁾ :	Support Run
RTK Correction Information:	Support Calculate
Signal Processing:	GPS, GLONASS, GALILEO, BEIDOU
Differential Data Format ⁽³⁾ :	RTCM 2.x/3.x, CMR+ and current international standard formats

User Volume:	Up to 20000 users Up to 5000 concurrent transmission
Techniques ⁽⁴⁾ :	VRS, DGPS, MAC, FKP
Communication Protocols:	TCP/IP, NTRIP, COM (serial port) and UDP
Database Application:	Define subscription information, password and account
Interface	- Enter the receiver and antenna properties, connection information, reference station coordinates and speed information of the reference stations - Graphical display the coordinate changes of the stations ⁽⁵⁾ - Display the instant and historical locations, and historical usages will be queried and reported according to time and location ⁽⁵⁾
Module	- Monitor the quality of the data coming from the reference stations - Monitor the quality of the satellites that can be instantly received
Download:	satellite ephemeris, DCB, clock corrections etc. automatically downloaded from the internet ⁽⁵⁾
Raw Observation Data	
- Interval :	1 second, 30 seconds
- Frequency :	Hourly, Daily
- Format:	RINEX 2x and RINEX 3x
- Store:	In a directory to be defined on the server
- Send:	Via FTP server
TEC(Total Electron Content) & PW(Precipitable Water Vapor)	
Advanced metrology module calculation ⁽⁵⁾	
- Frequency :	Hourly, Daily
- Format:	BUFR or GRIB
- Store:	In a directory on the current server
- Send:	to another presentation with an IP address defined
Geoid Height Information	
- Position:	In the grid structure and defined datum conversion parameters
- Send:	The correction information in the RTCM standard
- Geodetic Datasets:	Tectonic Velocity file, Geoid file etc.
Web-based Online Post Process Module ⁽⁵⁾	
- Automatically determine the reference stations to be used in coordinate calculation	
- Report the result in user-defined coordinate system	
- Download retrospective 30-second daily observation data of the existing reference stations	

Technical Specifications

Sub-regional Networks (Subnets)

- Definition: User-defined
- Send: Real-time correction information that automatically determines which sub-region to send to the user according to the user's location⁽⁵⁾
- Ability: Process 8 subnets simultaneously



- Note:
- (1) The more reference stations, the greater the performance requirements of the server.
 - (2) It is supported if the virtual servers using virtual cores means "Cloud server" .
 - (3) The user will be able to choose what they want from this correction information.
 - (4) Optional for MAC and FKP.
 - (5) Optional.



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