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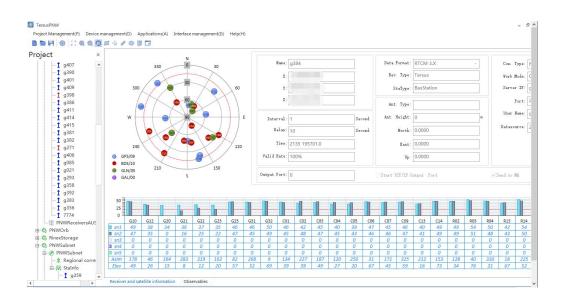
### **TersusPNW Software** Tersus PreciseNetWork RTK System Management and Positioning Service Software

#### **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**

TERSUS 🗽 🚺 DATASHEET

#### **System Requirements**

Operating System: Microsoft Windows 7, 8, 10 or later version Windows Server 2019 operating systems (64 bit)

Processor - Minimum: - Recommended:	Intel Core i3 Intel Core i5
RAM - Minimum: - Recommended:	4GB 8GB
Hard Disk - Minimum: - Recommended:	10GB 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	/	s(at the same time
	op to 1000 base	s(at the same time
Virtual Servers Using Virtua	al Cores <sup>(2)</sup> :	Support Ru
RTK Correction Informatio	n:	Support Calculat
Signal Processing:	GPS, GLONASS	, GALILEO, BEIDOU

Differental Data Format  $^{(3)}$ : RTCM 2.x/3.x, CMR+ and current international standard formats

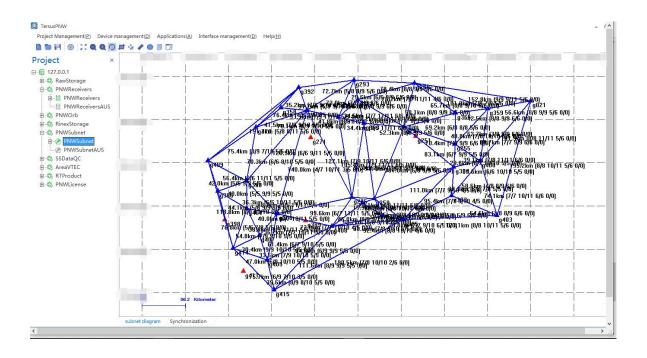
User Volume:	Up to 20000 users Up to 5000 concurrent transmission
Techniques <sup>(4)</sup> :	VRS, DGPS, MAC, FK
Communication F	Protocols: TCP/IP, NTRIP, COM (serial port) and UDI
Database Applica Define subsc	tion: ription information, password and accoun
information, refer information of the - Graphical displa - Display the insta	er and antenna properties, connection rence station coordinates and speed e reference stations y the coordinate changes of the stations <sup>(5)</sup> ant and historical locations, and historical eried and reported according to time and
Module - Monitor the qua stations	lity of the data coming from the reference tity of the satellites that can be instantly
	llite ephemeris, DCB, clock corrections etc wnloaded from the internet <sup>(5)</sup>
Raw Observation - Interval : - Frequency : - Format: - Store: - Send:	Data 1 second, 30 seconds Hourly, Daily RINEX 2x and RINEX 3x In a directory to be defined on the serve Via FTP serve
Advanced metero - Frequency : - Format: - Store:	n Content) & PW(Precipitable Water Vapor ology module calculation <sup>(5)</sup> Hourly, Daily BUFR or GRI In a directory on the current serve ner presentation with an IP address define
Geoid Height Info - Postion:	In the grid structure and defined datum
- Send: The co - Geodetic Datase	conversion parameter prrection information in the RTCM standar tts: Tectonic Velocity file, Geoid file et
- Automatically de in coordinate calc - Report the resul	t in user-defined coordinate system spective 30-second daily observation data
9	

### **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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