

Cost-effective Solution for Ntrip Corrections

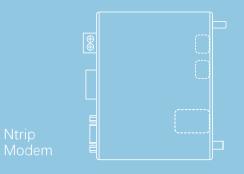




Cost-effective Solution for Ntrip Corrections



David GNSS



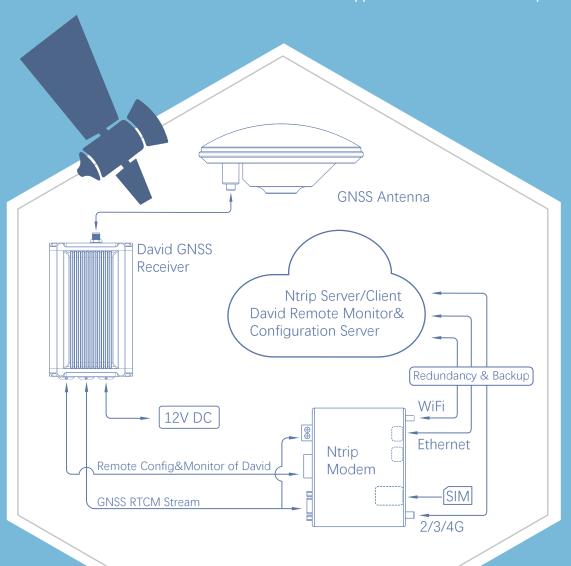
The Tersus GeoBee is a dedicated and cost-effective solution to transmit or receive Ntrip corretions. With Tersus Ntrip Caster Service, Ntrip Modem and David Receiver, the GeoBee opens the possibility for users to transmit Real Time Kinematic (RTK) corrections via Internet (Ethernet or 2G/3G/4G) in a simple, user-friendly way, just using a SIM card or Ethernet cable without any need of a static IP. GeoBee can also work as GNSS Rover to receive RTK corrections from Tersus Ntrip Caster or any CORS service

Atrip server mode: use David GNSS receiver to create a base station. This temporary base or CORS is for surveying, agriculture, UAV, machine control, and etc. It is also ideal for deformation monitoring. Tersus GNSS Inc. provides Ntrip Caster to transfer data.

Ntrip client mode: connect David or other Tersus GNSS receivers to Tersus Ntrip Caster or any Ntrip/CORS service. David is mainly used for surveying, and also used as a GNSS sensor in various applications, such as mobile mapping, UAV, machine control, agriculture, and etc.

Features

- Supports multiple constellations & frequencies
 - GPS L1/L2
 - GLONASS L1/L2
 - BeiDou B1/B2
- Support 384 channels
- Supports RTCM2.3/3.x, CMR, CMR+ corrections
- Supports 4GB internal storage
- Rapid RTK integer ambiguity resolution
- Supports stable, high-precision measurement output
- Supports Ethernet is default while 2G/3G/4G is hot standby
- Supports remote access and operation



Technical Specifications - David

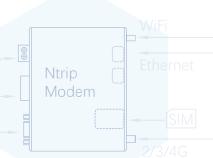
Signal Tracking		
		GPS L1/L2
GNSS		GLONASS L1/L2
		BeiDou B1/B2
GNSS Channels		384
Positioning		
Single Point Positioning Accura	icy (RMS)	
	Horizontal	1.5n
	Vertical	3.0n
Real Time Kinematic (RMS)		
	Horizontal	10mm+1ppn
	Vertical	15mm+1ppn
Post Processed Kinematic (RM	S)	
	Horizontal	10mm+1ppn
	Vertical	15mm+1ppm
Static Post Processing (RMS)		
	Horizontal	3mm + 0.5ppn
	Vertical	5mm + 0.5ppn
Observation (zenit	h direction)	
C/A Code		10cm
P Code		10cm
Carrier Phase		1mn
Performance		
Time to First Fix		
	Cold Start	<50
	Warm Start	<309
Timing Accuracy (RMS)		20ns
Velocity Accuracy (RMS)		0.03m/s

Initialization (typical)	<10:
Initialization Reliability	>99.9%
Electrical	
Input Voltage	5V ~ 12V D0
Power Consumption	3.2W(David only
Data	
Storage	4GB in-built Memor
Correction	RTCM2.3/3.x, CMR, CMR
Max. Update Rate	20H
Communication	
Serial Ports	RS-232 x
USB Ports	USB 2.0 device x
Physical	
Dimension	104x65x31mm (David only
Weight	≈250g (David only
Active Antenna Input Impedance	500
Antenna Connector	SMA female x
COM Baud Rate	Up to 921600bp
Operating Temperature	-40°C ~ + 85°
Dust & Waterproof	IP6
Optional Accessory	
Radio	2W 460MH
nauio	30W 460MH
D-H	
Battery bank	
Software Support	
•	



Technical Specifications - Ntrip Modem TR600

Performance	
Input Voltage	12V ~ 48V DC
Operating Current	350mA @ +12V DC
Standby Current	250mA @ +12V DC
Power Consumption (typical)	4.2W
Physical	
Dimension	118x91x34mm (w/o connectors)
Weight	335g
Operating Temperature	-30°C ~ +80°C
Relative Humidity	95% @ +40°C
Interfaces	
Serial Port	RS232 x1, RS485 x1
Ethernrt	RJ45 x2 (LAN, LAN/WAN)
Antenna Connector	SMA Female x2 (4G, WiFi)





Chinese version:		
	2G	GSM/GPRS/EDGE/CDMA2000
	3G	UMTS/WCDMA/HDSPA/HS
		TD-SCDMA/CDMA2000 EV
	4G	TDD-LTE/FDD-
Eurasian version (Europe,	, Middle East, Africa, S	outh Korea, Thailand):
	2G	GSM/GPRS/ED
	3G	UMTS/WCDMA/HDSPA/HS
	4G	TDD-LTE/FDD-
North American version:		
	3G	UMTS/WCDMA/HDSPA/HS
	4G	FDD-
Australian version (New Z	ealand, Australia, Sou	ıth America):
	2G	G
	3G	WCD
	4G	FDD-LTE/TDD-
Communication		
		requency)
Communication Chinese version		requency) TDD-LTE B38/B39/B40/
		TDD-LTE B38/B39/B40/
		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1
		TDD-LTE B38/B39/B40/l FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/l
		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/I CDMA2000 1x/EVDO I
Chinese version		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/I CDMA2000 1x/EVDO I
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Chinese version		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/I CDMA2000 1x/EVDO II GSM/GPRS/EDGE 900/1800 N
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Chinese version Eurasian version		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/I CDMA2000 1x/EVDO I GSM/GPRS/EDGE 900/1800 N TDD-LTE B38/I FDD-LTE B1/B3/B7/B8/I
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Eurasian version North American version		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/I CDMA2000 1x/EVDO I GSM/GPRS/EDGE 900/1800 N TDD-LTE B38/I UMTS/HSDPA/HSPA+ B1 GSM/GPRS/EDGE 900/1800 N FDD-LTE B2/B4/B5/
Chinese version Eurasian version		TDD-LTE B38/B39/B40/I FDD-LTE B1/B3 UMTS/HSDPA/HSPA+ B1 TD-SCDMA B34/I CDMA2000 1x/EVDO I GSM/GPRS/EDGE 900/1800 N TDD-LTE B38/I UMTS/HSDPA/HSPA+ B1 GSM/GPRS/EDGE 900/1800 N FDD-LTE B2/B4/B5/



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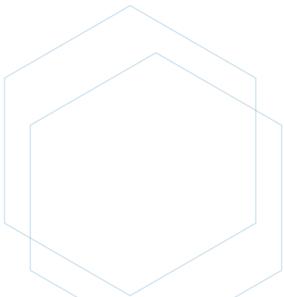
Affordable Centimeter Precision

Tersus is a leading GNSS RTK solution provider. Our engineers have been pioneers in the design of GNSS products to support high-precision positioning applications.

Our products include GNSS RTK & PPK OEM boards and receivers, as well as integrated solutions such as the David GNSS Receiver, Oscar Receiver, MatrixRTK, and GNSS-aided Inertial Navigation System.

Designed for easy and rapid integration, our GNSS solutions offer centimeter-level positioning accuracy and flexible interfaces for a variety of applications including: unmanned aerial vehicle (UAVs), surveying, mapping, construction engineering, and precision agriculture.

To learn more, visit: www.tersus-gnss.com Sales inquiry: sales@tersus-gnss.com Technical support: support@tersus-gnss.com



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