

Tersus GeoBee30

Cost-effective Solution for Ntrip Corrections

Upgraded Version of Tersus GeoBee

Overview

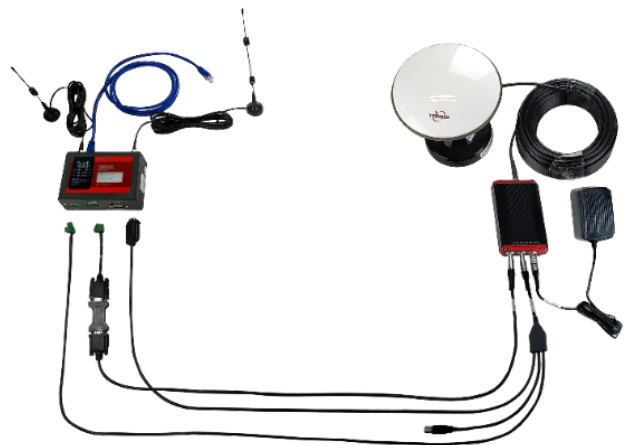
The Tersus GeoBee30 is a dedicated and cost-effective solution to transmit or receive Ntrip corrections. With Tersus Ntrip Caster Service, Ntrip Modem and David30 GNSS Receiver, the GeoBee30 opens the possibility for users to transmit Real Time Kinematic (RTK) corrections via Internet (Ethernet or 2G/3G/4G) in a simple, user-friendly way, just using a SIM card or Ethernet cable without any need of a static IP. GeoBee30 can also work as GNSS Rover to receive RTK corrections from Tersus Ntrip Caster or any CORS service.

Ntrip server mode: use David30 GNSS receiver to create a base station. This temporary base or CORS are 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 David30 or other Tersus GNSS receivers to Tersus Ntrip Caster or any Ntrip/CORS service. David30 is mainly used for surveying, and also used as a GNSS sensor in various applications, such as mobile mapping, machine control, precision agriculture, and etc.

Key Features

- ✓ Supports multi-constellation including BeiDou, GPS, GLONASS, Galileo, QZSS and SBAS
- ✓ Supports 576 channels
- ✓ Supports RTCM2.x/3.x, CMR/CMR+ corrections
- ✓ Supports 8GB (optional:32 GB) 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 Ntrip Server and Ntrip Client protocol
- ✓ Supports RS232 and RS485
- ✓ Supports remote access and operation



Tersus GNSS

David30 GNSS Receiver

Technical Specifications

Performance

Signal Tracking:	
GPS L1 C/A, L2C, L2P, L5; GLONASS L1 C/A, L2 C/A; BDS B1, B2, B3, support BDS-3; Galileo E1, E5a, E5b; QZSS L1 C/A, L2C, L5; SBAS support WAAS, EGNOS, GAGAN, SDCM, MSAS	
Channels:	576
Single Point Positioning Accuracy (RMS):	
- Horizontal:	1.5m
- Vertical :	3.0m
DGPS Positioning Accuracy (RMS):	
- Horizontal:	0.25m
- Vertical:	0.5m
Real Time Kinematic (RMS):	
- Horizontal:	8mm+1ppm
- Vertical:	15mm+1ppm
Observation Accuracy (zenith direction):	
- C/A Code:	10cm
- P Code:	10cm
- Carrier Phase:	1mm
Time To First Fix (TTFF):	
- Cold Start:	<35s
- Warm Start:	<10s
Re-acquisition:	<1s
Timing Accuracy (RMS):	20ns
Velocity Accuracy (RMS):	0.03m/s
Initialization (Typical):	< 10s
Initialization Reliability:	>99.9%
Differential Data Format:	RTCM 2.x/3.x, CMR/CMR+
Data Output:	NMEA-0183, Tersus Binary
Data Update Rate:	20Hz
Storage:	Built-in 8GB(Optional: 32GB)

Communication

Serial Ports:	RS232 x2
Serial Baud Rate:	up to 921600bps
USB Ports:	USB 2.0 OTG x1
CAN Ports:	CAN x1
PPS Ports:	LVTTTL x1
Event Ports:	LVTTTL x2
Antenna Connector:	TNC Female x1

Software Support

Tersus Nuwa
Other Third Party Software Support NMEA-0183

Electrical

Input Voltage:	5V~28V DC ⁽¹⁾
Power Consumption (at 25°C):	3.6W

Physical

Dimension:	124x79.5x37mm
Weight:	≈ 360g

Environmental

Operating Temperature:	-40°C ~ +85°C
Storage Temperature:	-40°C ~ +85°C
Humidity:	95% non-condensing
Dust- & Waterproof:	IP67

Note:

(1) When using 5V external power supply, it is recommended to use 2A current input; If you need 28~36V DC input voltage, you can customize it according to your needs

Tersus GNSS Ntrip Modem TR600

Technical Specifications

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:	- 40°C ~ +80°C
Relative Humidity:	95% @ +40°C

Interfaces

Serial Port:	RS232 x1, RS485 x1
Ethernet:	RJ45 x2 (LAN, LAN/WAN)
Antenna Connector:	SMA Female x2 (4G, WiFi)

Communication

Network:	
Chinese Version:	2G: GSM/GPRS/EDGE/CDMA2000 1x 3G: UMTS/WCDMA/HSDPA/HSPA+/TD-SCDMA /CDMA2000 EVDO 4G: TDD-LTE/FDD-LTE
Eurasian Version (Europe, Middle East, Africa, South Korea, Thailand):	2G: GSM/GPRS/EDGE 3G: UMTS/WCDMA/HSDPA/HSPA+ 4G: TDD-LTE/FDD-LTE
North American Version:	3G: UMTS/WCDMA/HSDPA/HSPA+ 4G: FDD-LTE
Australian Version (New Zealand, Australia, South America):	2G: GSM 3G: WCDMA 4G: FDD-LTE/TDD-LTE
Operating Frequency:	
Chinese Version:	TDD-LTE B38/B39/B40/B41 FDD-LTE B1/B3/B8 UMTS/HSDPA/HSPA+ B1/B8 TD-SCDMA B34/B39 CDMA2000 1x/EVDO BC0 GSM/GPRS/EDGE 900/1800 MHz
Eurasian Version:	TDD-LTE B38/B40 FDD-LTE B1/B3/B7/B8/B20 UMTS/HSDPA/HSPA+ B1/B8 GSM/GPRS/EDGE 900/1800 MHz
North American Version:	FDD-LTE B2/B4/B5/B17 UMTS/HSDPA/HSPA+ B2/B5
Australian Version:	FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28 TDD-LTE B40 WCDMA B1/B2/B5/B8 GSM 850/900/1800/1900

Authorized Master Distributor in U.S. and Canada



Website: www.desertcreativegroup.com
Sales Inquiry: sales@desertcreativegroup.com
Technical Support: 1-208-423-7422

Information is subject to change without notice.
 © Copyright 2023 Tersus GNSS Inc.