

TERSUS

David30

Full-Constellation High Precision GNSS Receiver



Tersus David30

The Tersus David30 is a multi-constellation high precision GNSS receiver which offers centimeter-accurate positioning. It is designed for intelligent transportation, construction, machine control, precision agriculture, and navigation applications.

The David30 GNSS receiver is built for outdoor environments with IP67-rated enclosure. The compact palm size makes it easy to integrate with various application systems.



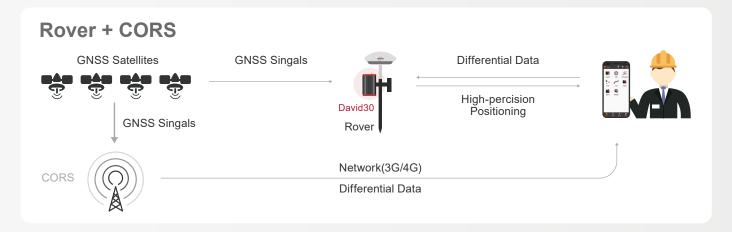


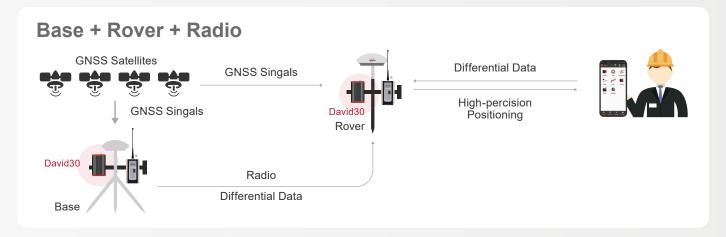
Features

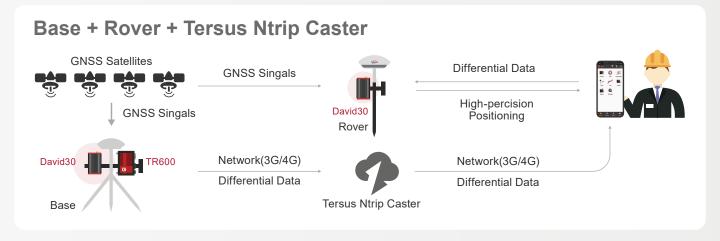
- Supports multi-constellation including BeiDou, GPS, GLONASS, Galileo, and QZSS
- Support 576 channels
- Supports RTCM2.3/3.0/3.2, CMR, CMR+ corrections
- Flexible for integration in different applications

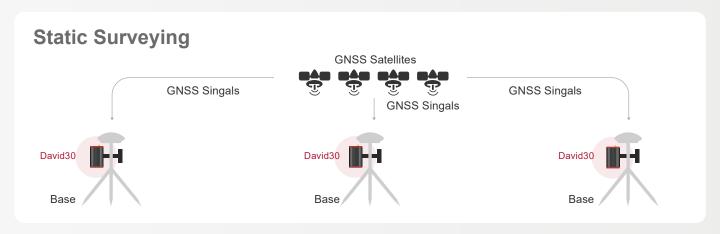
- Data update rate up to 20Hz
- Input power range is 5~36V DC
- In-built 8GB storage benefits data collection
- IP67-rated dust- & waterproof enclosure, for reliability in harsh environmental conditions

Working Modes



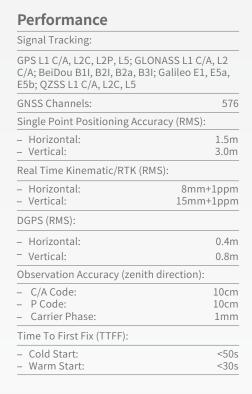






Technical Specifications

David30



Reacquisition:	<2s			
Timing Accuracy (RMS):	20ns			
Velocity Accuracy (RMS):	0.03m/s			
Initialization (typical):	<10s			
Initialization Reliability:	>99.9%			
Correction: R	TCM 2.x/3.x, CMR/CMR+			
Data format: NMEA-0183	3 and Tersus Binary forma			
Max. Data Update Rate:	20Hz			
Storage:	In-built 8GB memory			
Communication				
Serial Ports:	RS232 x2			

Initialization (typical): <10s			
Initialization Reliabil	ity: >99.9%			
Correction:	RTCM 2.x/3.x, CMR/CMR+			
Data format: NMEA	-0183 and Tersus Binary format			
Max. Data Update Ra	ate: 20Hz			
Storage:	In-built 8GB memory			
Communication				
Serial Ports:	RS232 x2			
Serial Baud Rate:	Up to 921600bps			
USB Ports:	USB 2.0 OTG x1			
CAN Ports:	CAN x1			
PPS Ports:	LVTTL x1			
Event Ports:	LVTTL x2			
Antenna Connector:	TNC female x1			



Software Support

Tersus Nuwa
Other Third Party Software Support NMEA-0183

Electrical

Input Voltage:	5V~36V DC
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

Tersus GNSS Inc.

Right to the point.

Tersus is a leading GNSS solution provider - we research, engineer, and manufacture GNSS products for high-precision positioning applications. The product family spans a broad spectrum, from GNSS OEM boards to integrated solutions, such as the David GNSS Receiver, Oscar GNSS Receiver, MatrixRTK, and GNSS Aided Inertial Navigation System. Tersus GNSS products have been widely adopted in numerous industries: surveying, GIS, construction, UAV, automation, precision agriculture...the list continues.

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