



Overview

The Tersus David is a cost-efficient, palm-sized GNSS receiver designed for surveying, UAVs, AGVs, and agricultural applications. Working with an external GNSS antenna, the free Tersus Survey App and post-processing software, the David GNSS receiver is a low-cost solution for all survey applications, including real-time RTK positioning and data collection for PPK.

A 4GB in-built memory makes it easy to record data for post processing. The compact size, IP67-rated enclosure, and external Bluetooth module alleviates most of the inconveniences encountered in field work.

Key Features

Supports GPS L1/L2, GLONASS L1/L2, and BeiDou B1/B2

Supports 384 channels

Supports RTCM2.3/3.x, CMR, CMR+ corrections

Easy to connect an external powerful radio for long range

Solution update rate up to 10Hz

20Hz raw measurement output for post processing

The carrier phase accuracy down to 1mm

Post-processing software for 1cm-level positioning accuracy

Input power range is 5~12V DC

IP67-rated dust- & waterproof enclosure, for reliability in harsh environmental conditions

MicroSurvey FieldGenius supports Tersus David





Technical Specifications

Performance

Signal Tracking For Antenna: GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2	
GNSS Channels:	384
Single Point Positioning Accurac – Horizontal: – Vertical:	ry (RMS): 1.5m 3.0m
Real Time Kinematic (RMS): – Horizontal: – Vertical:	10mm+1ppm 15mm+1ppm
Post Processed Kinematic (RMS – Horizontal: – Vertical:): 10mm+1ppm 15mm+1ppm
Static Post Processing (RMS): – Horizontal: – Vertical:	3mm+0.5ppm 5mm+0.5ppm
Observation Accuracy (zenith di – C/A Code: – P Code: – Carrier Phase:	rection): 10cm 10cm 1mm
Time To First Fix (TTFF): – Cold Start: – Warm Start:	<50s <30s
Timing Accuracy (RMS):	20ns
Velocity Accuracy (RMS):	0.03m/s
Initialization (typical):	<10s
Initialization Reliability:	>99.9%
Max. Measurements Update Ra	te: 20Hz
Input Voltage:	5V~12V DC1
Power Consumption (at 25°C):	3.2W (David only)
Active Antenna Input Impedanc	e: 50Ω
Storage:	In-built 4GB memory

Communication

Serial Ports:	RS232 x2
USB Ports:	USB 2.0 device x1
Antenna Connector:	SMA female x1
COM Baud Rate:	Up to 460800bps

Software Support

Tersus Nuwa MicroSurvey FieldGenius

Physical

Dimension:	104x65x31mm (David only)
Weight:	≈ 250g (David only)
Operating Temperature:	-40°C ~ +85°C
Dust- & Waterproof:	IP67

Optional Accessories

2W 460MHz/30W 460MHz radio to transmit/receive

RTK corrections

Battery bank

Note: 1. It is recommended using 2A instead of 1A when the external power is 5V.

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