

Tersus David GNSS Receiver Firmware Version (FW0243)

Release

Apr 22, 2019

Overview

Tersus GNSS Inc. ("Tersus") is glad to release the firmware to David GNSS receiver. Firmware version (FW0243) is available for download at www.tersus-gnss.com/software/david-receiver and support documents are available at www.tersus-gnss.com/document.

Features

- The firmware tracks three constellations: GPS (L1/L2), GLONASS (L1/L2) and BeiDou (B1/B2).
- This firmware provides centimeter-level accurate positioning to meet the wide range of precision positioning applications. Even in harsh environments and long baseline (15~30km) situation, the fixed RTK solutions can satisfy the diversity of surveying needs.
- The 4 GB onboard data storage makes it possible to store raw measurements for post-processing application.
- The maximum update rate is 20Hz for RTK and 20Hz for raw measurements.
- With a number of configurations, the firmware matches the needs for post-processing workflows, and for the use as a base/rover station or rover.

Change from Previous Versions

Issue	Туре	FW
Fix the bug of SATVIS log.	Bug Fix	FW0243
Make the 'rtkcommand reset' work.	Bug Fix	FW0179

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Baseband fix a Time Quality upgrade without	Bug Fix	
firstly set time possible bug.		
Switch back AP RTK callback calling order	Bug Fix	
Make synchronous logs have priority over asynchronous	Bug Fix	FW0173
Add antenna type field in "thisantenna" log and		
this information can be converted to RINEX	Enhancement	
header.		
Change FSBL	Enhancement	
Fixed the GLONASS string count=0 problem		
which would cause GLONASS have no	Bug fix	
observations when the UTC time equals 3 a.m.		
Expanded the size of RTK ephemeris array. This		FW0138
problem would cause the newly raised GPS	Bug fix	
satellites not to participate in RTK solution.		
Fixed the problem of ionospheric model	Bug fix	
jumping.		
Added the function of smoothing RTK solution	Enhancement	
to get POSAVE coordinates.		
Fixed the bug of RTCM3 encoding and decoding	Bug fix	FW0131
of FW0114	Bug IIX	1 00131
If the input coordinates and actual coordinates		FW0114
differ by more than 30m in one direction,it will	Enhancement	
stop broadcasting RTCM messages although the		
RTCM logs are input.		
The RTK engine is updated.	Enhancement	
Optimized cycle slip detecting method.	Enhancement	FW0089
Fixed the problem of invalid 'RTKSOURCE'	Bug fix	FW0086
command.		

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Enhancement		
Rug fix		
548 III		
Bug fix		
		Enhancement
Enhancement		
Rug fiv	FW0082	
Bug fix		
Enhancement		
		Enhancement
Enhancement		
		Enhancement
Bug fix		
Bug fix		EW0026
Rug fiv	FW0026	
Bug IIX		
Rug fiv		
Dug IIA		
	FW0025	
Enhancement		
Enhancement	FW0024	
	FVVUUZ4	
	Bug fix Bug fix Enhancement Enhancement Bug fix Enhancement Enhancement Enhancement Bug fix Enhancement	

Receiver >, 2.6.1)		
The update logical has been optimized.	Enhancement	
The logic of firmware update has been optimized.	Enhancement	514/0000
The USB feature of firmware has been optimized.	Enhancement	FW0023
Log GPZDA may cause the FW not working.	Bug Fix	
The error rate of serial port input and output	Enhancement	FW0022
data is reduced.		