Tersus David GNSS Receiver Firmware Version (FW0089) Release

Dec 14, 2018

Overview

Tersus GNSS Inc. ("Tersus") is glad to release the firmware to David GNSS receiver. Firmware version (FW0089) 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	Type	FW
Optimized cycle slip detecting method.	Enhancement	FW0089
Fixed the problem of invalid 'RTKSOURCE'	Bug fix	FW0086

command.		
When input have TAB (it maybe copy from pdf,html..etc.). Make Response enable.	Enhancement	
The RTCM date will be broadcast only when the coordinates are fixed.	Bug fix	FW0082
Changed the RTCM1230 encoding and RTCM1033 decoding.	Bug fix	
AP added more checks for response.	Enhancement	
Make file downloads more robust.	Enhancement	
Fixed the bug of Galileo and BeiDou sig mask and GPS and GLONASS sig mask.	Bug fix	
Add DAC control clock drift range protection to +/- 0.6 ppm	Enhancement	
Consider clock drift error at recover clock drift stage.	Enhancement	
Expand clock drift recover range to 15Hz and expand clock drift tuning range to 40Hz.	Enhancement	
The RTK engine is updated to version 3.0 which is more stable re reliable.	Enhancement	FW0041
Fixed the bug of log GPHDT.	Bug fix	FW0026
Fixed the bug of log cmrplus/cmrdes	Bug fix	
Fixed the problem that sometimes USB can't be connect to the David Receiver.	Bug fix	
Fixed the bug when the updating is not successful.	Bug fix	FW0025
Changed the naming method of storage files. The time when the file was created is taken as the file name.	Enhancement	
Added a new feature of [base network].	Enhancement	FW0024

(refer to < User Manual For BX Series GNSS Receiver >, 2.6.1)		
The update logical has been optimized.	Enhancement	
The logic of firmware update has been optimized.	Enhancement	FW0023
The USB feature of firmware has been optimized.	Enhancement	
Log GPZDA may cause the FW not working.	Bug Fix	FW0022
The error rate of serial port input and output data is reduced.	Enhancement	