

Release Notes

May 2026

COMNAV GNSS FIRMWARE, V630A4

This firmware supports receivers based on the K8 GNSS board platform.

RTK Engine Upgrade

Improved Performance in Challenging Environments

Optimized the positioning engine to improve solution accuracy in challenging environments and enhance the reliability of fixed solutions.

Enhanced Initial Ambiguity Validation

Strengthened the initial ambiguity validation process to improve the reliability of the first fixed solution.

Improved RTK Fixing Under Trees

Optimized RTK fixing performance in challenging environments such as under trees, improving fix availability and solution consistency.

BeiDou System Upgrade and Firmware Adaptation

In 2026, the BeiDou Navigation Satellite System (BDS) completed an in-orbit upgrade aimed at improving the stability, reliability, and overall performance of its navigation services. The upgrade included optimization and adjustment of satellite operational status and further enhancement of system service performance.

To ensure compatibility with the upgraded BDS constellation, this firmware release introduces corresponding GNSS processing and satellite management updates. These updates are designed to ensure proper handling of the updated BeiDou satellite status and navigation data, while maintaining reliable positioning and RTK performance.

Other Fixes and Enhancements

Fixed an issue where the RTK solution could lose its fixed status when switching between VRS reference stations.

Strengthened the initial ambiguity validation process to improve the reliability of the first fixed solution.

Supported ComNav GNSS receiver models

The following table lists the GNSS receivers supported by this firmware upgrade.

Receiver	Firmware version
T300	V630A4
T300plus	
T20	
T30	
N2	
N3	
N5	
Venus	
Mars	
Mars pro	
Jupiter	

This firmware release is applicable to GNSS receivers with the following serial number prefixes: T31UXXXXX, T31LXXXXX, T310XXXXX, N21LXXXXX, N31LXXXXX, V110XXXXX, M11LXXXXX, M11HXXXXX, J11LXXXXX