

Release Notes

Firmware Version 3.5.0

FW 3.5.0

Release Date: July 6th, 2026

General information

This release improves correction service management, cellular connectivity and overall reliability. Highlights include Reference Frame fixed-offset conversion, serial control of the P2 Flex plan, more robust cellular and 2G connectivity, improved Reverse Detection, greater setup flexibility, and stronger memory handling.

Applicable Products: PXULT, PXOEM and PXRTK

Firmware Version: FW 3.5.0

New Features

- **Reference Frame Fixed-Offset Conversion**

Adds a fixed-offset mode to the Reference Frame Conversion feature, allowing a configured offset to be applied to the output position, being useful for aligning the reported position to a specific reference point.

```
$REFERENCE_CONV SET <RIGHT/FORWARD/UP> <Offset>
```

- **P2 Flex Plan**

The P2 Flex plan can now be enabled via serial command and supports scheduling up to 3 pauses to pause and resume the correction service:

```
$SOFT_INTELLIGENCE ENABLE P2_FLEX <Key First 16 Bytes> <Key Last 16 Bytes>
```

- **New Cellular Last-Connected Diagnostic Command**

Adds a new diagnostic command that reports the last time the device connected to the cellular network and the connection type used, making field connectivity easier to inspect:

```
$CELLULAR DIAGNOSTIC LAST_CONNECTED
```

Feature Improvements

- **Reverse Detection**

Improves Reverse Detection by eliminating false positives, for more reliable direction estimation.

- **Cellular Connectivity for default SIM Cards**

Improves network reliability for devices using default SIM cards: the device now automatically switches to an alternate network profile if the primary one fails to attach, keeping it reliably connected.

- **2G Network**

Enable 2G fallback cellular network connectivity.

- **Flexible Soft Intelligence Demo Activation**

Users can now start a Demo trial at any time, even when the device is inactive.

- **Tilt Calibration**

Tilt Compensation can now be calibrated at any time, even before the device is activated

- **Memory Handling**

Improves the device's memory handling for greater data integrity and reliability, protecting stored configuration and extending device longevity in the field.

Previous Versions

FW 3.4.3

Enhances connectivity by automatically cycling through all configured APNs when the selected one is rejected by the network.

FW 3.4.2

Improves device communication, memory handling robustness, and Soft Intelligence activation stability.

FW 3.4.1

Optimizes SmoothTrack Maintain stability for consistent output positioning under challenging GNSS signal conditions.

FW 3.4.0

Introduces Firmware Over-the-Air (FOTA) updates, Ultralink Wi-Fi and LAN configuration commands, a Dead Reckoning LED indicator, new J1939 CAN configuration commands, and optimized GNSS convergence for faster RTK Fix.

FW 3.3.1

Improves Tilt Compensation convergence reliability during calibration.

FW 3.3.0

Streamlines system initialization for faster 3D and RTK Fix acquisition, refines GST accuracy and NMEA 0183 GSV output, and enhances Terrain Compensation and SmoothTrack stability while reducing false reverse detection.

FW 3.2.2

Improves Terrain Compensation dynamic response and positioning accuracy across all supported hardware platforms.

FW 3.2.1

Enhances RTK Fix stability and expands GNSS module update capability to OEM v1.2 hardware.

FW 3.2.0

Adds a new correction service plan and single-line status message formats, improves True Heading reliability and availability, and enhances NMEA2000 position resolution.

FW 3.1.3

Improves SmoothTrack position handling by enhancing longitude output stability during GNSS operation.

FW 3.1.2

Expands GNSS capabilities with GPS L5 support, improving positioning robustness and availability.

FW 3.1.1

Improves the reliability and accuracy of the Reverse Detection feature, ensuring more consistent GNSS-based operation.

FW 3.1.0

Introduces new CAN product information messages, SmoothTrack Maintain mode, and multiple navigation, accuracy, and system performance enhancements.

FW 3.0.2

Enables ZTP functionality when using Thingstream IP-only connectivity plans.

FW 3.0.1

Improves CAN bus reliability by fixing data transmission issues and enhancing overall communication stability.

FW 3.0.0

Adds Nordian Dashboard integration, improves dynamic behavior with higher update rates, and enhances reference frame and logging functionality.