

Fastrax IT600 Change Notice

CN_IT600_20120427

Key Features:

Firmware Change

- IT600 firmware will be upgraded to rev 2.0.0

Hardware Change

- No changes

Documentation

- FW release notes attached

Production

- Applies to all new orders

End of Life

- Not Applicable



Release Notes:

Firmware Identification

- Label: IT600-**200B-ITX**-4261
- Tag: 200B-ITX.2086

Corrected /Added Issues:

- Fixed GLONASS year roll-over issue.
- Reduced GNSS fix event time jittering.
- Added API for fix event delay setting.
- Improved GNSS timing accuracy.
- Introduced position hold feature (for timing applications).
- Supported accurate time even in no-fix conditions if position hold is enabled.
- Improved PPS management.
- Enabled SBAS iono corrections even in GLONASS only mode.
- Fixed memory corruption issue caused by SBAS correction evaluation for GLONASS.
- Introduced a deterministic delay between measurements and NMEA data out (configurable).
- Fixed missing QZSS sat over GSV messages.
- Fixed RTC inaccuracy caused by standby.
- Fixed potential deadlock during NVM swap.
- Added NMEA message to report the NOTCH filter status.
- Added NMEA message to report CPU usage and CPU speed setting.
- SBAS ON/OFF status is now preserved during suspend/restart.
- Added NMEA command for GNSS constellations enabling/disabling at run-time.
- Added NMEA command to perform a system reset (Firmware reboot).

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Known Issues:

- PPS has 71us offset; will be fixed in next release.
- PPS is not outputted in Glonass only mode; mitigation is under development.

Notes:

- SBAS position accuracy improvement is achieved in GPS only mode
- TTF is improved: Glonass only mode is 21 sec typ. versus GPS only or Hybrid mode 32 sec typ.