

Fastrax IT500 Series Firmware

Release Note for revision 1.50

RN_IT500_20110817

Summary

- IT500 series firmware will be upgraded to revision 1.50.
- Affected hardware(s): IT500, IT520 and UP501 (all variants).
- NMEA command interface is compatible with previous firmware release.

Firmware identification

- The firmware is identified both on the module label and in firmware.
- The FW revision code can be polled by the host by using NMEA protocol message `$PMTK605` and the response is `$PMTK705,AXN_1.50,1139,Fastrax IT500`, where `AXN_1.50` will indicate the firmware version 1.50.

Operational changes

- FOUT_32K is now active and will provide 32.768kHz RTC clock signal at 1.2V CMOS logic level.
- PPS Signal is active when the receiver has valid 2D or 3D fix (3D fix required with firmware 1.30).
- NMEA command to enter Power Save mode is now implemented.

Enhancements

- Weak signal navigation accuracy is improved.
- Multipath signal mitigation is improved.
- Faster and more Accurate first fix in difficult signal conditions.
- Static drifting is reduced.

Bug Fixes

- Heading jump near 360 degrees is now fixed.

Known issues

- NMEA message GPGST and GPGRS are not supported in this version. If you are using either of these messages, please order with 130S firmware.

Production

- The new FW is introduced as default firmware. New orders will be confirmed with FW 1.50 unless otherwise requested.
- New product codes:
 - IT500-**150M**-ITX-xxxx
 - IT520-**150M**-ITX-xxxx
 - UP501-**150M**-ITX-xxxx

