TOPCON

POSITIONING SYSTEMS

GNSS Firmware v4.7p6

Release Notes

March 2018

Table of Contents

Supported Products

Systems

- MM-1, MR-1, Net-G3A

OEM Boards

- OEM-1, Euro 112PII

Features and Changes

- Improved firmware performance during Leap Second and GPS Week Rollover events.
- DION improvements to fix behavior when NTRIP corrections received
- RMS error improvements in Stand-alone and Code Differential engines, as well as for velocities in RTK mode.
- Output of full covariance matrix (SP, SV, AP messages) is enabled for all solution modes.
- Added support for use of mixture of corrections for GPS L2C and GPS P2 simultaneously in RTK.
- Fixed "QZSS L2C quarter cycle" issue when working with non-Topcon bases.
- Improved GLONASS tracking when not visible parameter status is changed.
- PI message was updated to include mmGPS solution indicators.
- New antenna data base version 2.3.6 has been supported.
- New classes are introduced for Trimble, Novatel and Sokkia receivers in order to better handle for GLONASS biases in positioning solution:
  - TPS - for all Topcon receivers
  - JPS - for Javad receivers
  - ASHTECH - for Ashtech receivers
  - SOK - for legacy Sokkia receivers
  - SKA - for Topcon/Sokkia receivers - new class
  - SEPT - for Septentrio receivers
  - MAGELLAN - for Magellan receivers
  - NOV - for Novatel with old firmware (approximately - prior September 2016)
  - 2NOV - for Novatel with new firmware (approximately - after September 2016) - new class
  - LEICA - for Leica receivers
  - TRIMBLE - for Trimble receivers with old firmware (approximately - older than 5.11 of 2016)
  - 2TRIMBLE - for Trimble receivers with new firmware (approximately - 5.11 of 2016 and newer) - new class
  - OTHER - for other receivers
  - UNKNOWN - if receiver is unknown