

Date: January 26, 2009
Product: ProMark 500
Subject: ProMark 500 New GNSS fw: Gg19

Introduction:

This document is the firmware release note of the GNSS firmware Gf19

Reminder:

PM500 version	V1 S023G011	V2 S055Gb15	V3 S073Gd19	
GNSS Board fw	G011	Gb15	Gd19 or Gf19	Gg19 pm500_upgrade-gnss-0.0.g19.tar.bz2
Application fw	S023	S035	S051	
PMU	2.21	2.30.7	2.31	
GSM module fw	6.63_	6.63_	6.63C	

Upgrade procedure

Note that if your ProMark500 is not in V3 you must (and just have) to upgrade it with the V3 release. Please refer to ProMark500 V3 release note.

Upgrade Gd19 or Gf19 into Gg19:

- 1- Copy the following file on an empty USB key:
- [pm500_upgrade-gnss-0.0.g19.tar.bz2](#)
- 2- Make sure that there are at least 10Mb of free memory after having copied this files
- 3- Switch off the ProMark500
- 4- Plug the ProMark500 to an external power and make sure that there is also an internal battery
- 5- Connect the USB key to the ProMark500
- 6- **Turn on the ProMark500 by keeping pressed the button 'Scroll'**
- 7- Wait for the complete upgrade. At the end, the ProMark500 will automatically switch off
- 8- Perform a hard reset. You must turn on the ProMark500 by keeping pressed the both button 'Scroll' and 'Record'. You must see 'Reset done' during few seconds. If you don't see this message, please do again the hard reset.
- 9- Check on the display the release number "S073Gg19"

Firmware list and versions

Enter command on Port A : \$PASHQ,VERSION
You should have:

APPLICATION: S051Gg19
KERNEL: 2.6.19-pm4 #165 Mon Jul 7 10:35:50
RESCUE: 2.6.19-rescue
BOOT LOADER: 1.1.5.6
PMU: 2.31.0
API: 1.123
BSP: 1.0-108
GNSS uploader: pm4loader 0.22
GNSS S/N:
GNSS Options: TJKLEYGSVHC
RFS: 073

New features

None

Resolved Problems/Improvements

Issue with GLONASS frequency slot #6, appeared after new GLONASS satellite launch on December 25th 2008, has been fixed.

Known issues

1. Trimble rover does not work with ProMark 500 base in RTCM3 mode because Trimble does not recognize the ProMark 500 antenna name.

Recommendations

1. Use the following priority when selecting differential data transmission:
 - a. RTCM3
 - b. CMR
 - c. RTCM2.3
 - d. CMR+
2. Use the following priority when selecting differential data reception:
 - a. RTCM3
 - b. CMR

- c. RTCM2.3
 - d. CMR+
- 3. Do not enable Time-Tagged RTK without a special need
- 4. With the transmitter Magellan, it is recommended to use the format RTCM3 because the size of the format RTCM2.3 with GPS and GLONASS is too large.
- 5. If you experience problems with ProMark 500 such as a program hang, cycle the power to correct the issue. Unlike with previous receivers from Magellan, it is NOT RECOMMENDED to do a three-button reset. This procedure should only be used as a last resort when cycling the power does not clear the problem.

Remark: If you need to perform a three-button reset, please wait about 5 minutes after this reset before accessing ProMark 500 thru commands or thru its keyboard (After a three-button reset there are internal initializations which take some time to perform).