



Firmware Release Notes

Survey/GIS

Date: March 22, 2007
Product: Z-Max.Net
Subject: Firmware Release Maintenance Version MD02 - revB
Number: ZMax2007_02

Introduction:

The Z-Max.Net maintenance version MD02 is a no cost firmware update Z Max receiver. It fixes some firmware bugs that have been reported by users, dealers or Magellan Navigation Technical Support.

Z-Max.Net MD02 requires the operation FAST Survey V2.0.2 (see appropriate Release Note) to access full functionality.

It has been reported that PacificCrest radio Channel tables are erased when uploading MD02. This version shall not be used when operating with a UHF PacificCrest.

This is the recommended version to use if you are operating in GPRS networks.

Upgrade procedure

The upgrade procedure is as follows:

1. copy ZA00MD02.BIN file from your hard disk on an empty SD-card (preferably 23 or 64 MB). ZA00MD02.BIN file can downloaded from \Land Survey\Z-Max\Firmware\MD02\ folder of ftp.magellangps.com
2. Verify the Z-Max receiver is powered off
3. Insert the SD-card into the Z-Max receiver
4. We recommend attaching the Z-Max receiver to an external power source for uploading firmware. Alternatively, verify that the Z-Max battery module is fully charged.
5. Plug-in your communication module: MD02 includes a communication module firmware upgrade
6. Press the up-arrow button for a few seconds while switching the Z-Max receiver on
7. Firmware upgrade is divided in 5 stages corresponding to the different parts of the Z-Max receiver. The upgrade process takes about 1 minute.
8. At the end of the upgrade process, the Z-Max.Net receiver reboots automatically and ends in SYSINFO menu. Verify the version reference "VER:MD02" using the embedded keyboard/display. Alternatively, send the commands \$PASHQ,GETVER and \$PASHQ,VERSION. Communication module F/W version must be CV11.
9. If you have several communication modules, redo all the previous stages with every communication module plugged in.
10. Turn off the Z-Max receiver, depress the green power button until the word "re-init" appears on the front panel and let go of the power button.

Note:

- some stages may be skipped if no battery module (stage 1) or no communication module (stage 2) is plugged-in.
- During upload process, step#2 is sometimes skipped. To bypass the problem, send via Fast Survey , the following Command: \$PASHS , UPLOAD , COMM

New features

There is no new feature vs MD00.

Resolved Problems

From MD00

1. Operation in FKP networks using GNSMART Caster from Geo++, in NTRIP protocol with internal G18/G20 modem, now provides a stable correction age
2. Source table uploading from some NTRIP caster is corrected
3. Rate error rate in CMR+ message format is now at a standard error rate
4. All numbers and letters in NTRIP password are now accepted

Known Issues

1. PacificCrest radio Channel tables are erased when uploading MD02. This version shall not be used when operating with a UHF PacificCrest.
2. During upload process, step#2 is sometimes skipped. To bypass the problem, send via Fast Survey , the following Command: \$PASHS , UPLOAD , COMM
3. When a USB cable is connected to USB port and active, for example when downloading through USB port, external serial port A is inactive.
4. Receiver TRAP 700 or resets. In rare occasion, receiver will display TRAP700 message scroll on front panel or power cycle without reason. This is a result of illegal instruction within firmware. While there has been many attempts to eliminate this problem, this problem may still pop up occasionally.
5. If a session is programmed to start before day roll over and finish after day roll over, and if there is a power cycle after the day roll over but before the session is completed, the session does not restart automatically after the power cycle.
6. Power supply through power A or port B: If using internal battery, no power will be available on port A or port B. Power is only available if an external power greater than 9V is applied.

Recommendations

1. Clear receiver memory once a week, either through front panel power button or \$PASHS,INI command
2. Never take the SD Card out of the receiver while recording data.
3. Reformat every 2 weeks the SD-card through the initialization process.