

RELEASE NOTES

Trimble® MB-One GNSS OEM Board, Firmware 2.0

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Introduction

These Release Notes describe improvements made since version 1.0 to the Trimble MB-One GNSS OEM board firmware.

With this release, the MB-One can use version 2.0 firmware.

For further support information, go to:

http://intech.trimble.com/oem_gnss/receiver_boards/trimble_mb-one

Where to Find the Firmware Upgrade

Please use the link below to download a copy of the upgrade file:

ftp://ftp.ashtech.com/OEM_Sensor_ADU/MBOne/Firmware

IMPORTANT: DO NOT rename the file you've downloaded. The upgrade procedure can only be run using a properly named upgrade file.

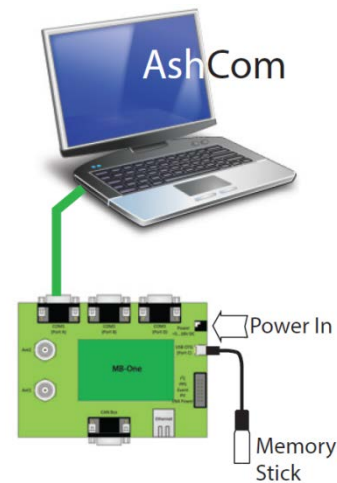


Upgrade Procedure

This procedure is based on the use of a memory stick. The MB-One should be installed on the evaluation kit.

You need to use a computer running AshCom, a USB mass storage key (memory stick), a USB OTG cable and the \$PASHS,UPL,UPG proprietary command (see detailed description in Reference Manual) :

- Copy the upgrade file (MBOne_upgrade_vx.x.tar) to the memory stick.
- Connect the memory stick to the USB OTG cable.
- Connect the other end of the USB OTG cable to the evaluation kit.
- On your computer, from AshCom's command box, send this command to the board:
\$PASHS,UPL,UPG
- The board will first return an acknowledge message, then a reboot message:
\$PASHR,ACK*3D
\$PASHR,UPL,REBOOT,MBOne_upgrade_vx.X.tar*<checksum>
This starts the upgrade. Note that the second message may appear more than once during the procedure. When the upgrade is complete and successful, the board returns the following line:
\$PASHR,UPL,OK,MBOne_upgrade_vx.X.tar*<checksum>



New Features and Changes

The following improvements have been made to the MB-One OEM GNSS board:

General

- New RTX capability introduced. The following proprietary commands were added to control this new feature: \$PASHS,LBN,USE - \$PASHS,RTX,DTM - \$PASHS,RTX,MOD - \$PASHS,RTX,SRC - \$PASHQ,LBN - \$PASHQ,RTX.
- Message output rate now up to 50 Hz. Can be set to 5 Hz.
- Updated information on connector pinout, evaluation kit RJ45 schematic diagram added.
- Sensor ID now included in some commands
- New output messages: SLB (providing L-band satellite status), GGKx
- Satellite numbering in GSV message changed.
- Other changes (see complete list in MB-One Reference Manual, May 2015 Release Notes).

Documentation updates

The latest documentation (MB-One Reference Manual) can be found online at:

http://intech.trimble.com/oem_gnss/receiver_boards/trimble_mb-one.

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Release Notice

This is the May 2015 release (Revision A) of the *Release Notes*. It applies to version 2.0 of the OEM GNSS board MB-One.