Upgrading Firmware

The Network Master series (MT9090A hereafter) has a firmware upgrade function for adding new functionality and solving operation bugs. The new firmware upgrade is executed when the MT9090A reads an update installer file released by Anritsu. This document explains how to update the firmware of the following products connected to the MT9090A.

MU909814B, MU909815B

Note:

- When upgrading firmware, ALWAYS refer to the operation manual for the MT9090A Network Master Series µOTDR Module.
- Always perform firmware upgrades with the AC adapter connected.

Download Files

The latest firmware for the modules can be downloaded as zip files from the Anritsu home page at https://www.anritsu.com/zh-cn/test-measurement/support/downloads?model=MU909814B/15B.

Example: When the **uOTDR_ vxxx_ CN.zip (xxx = version; Example: uOTDR_ v100_CN.zip)** file is unzipped (expanded), the following files are created:

(1) uOTDR_xxx_CN.BBM (MU909814B/15B firmware update file, Version xxx)

(2) uOTDR_CN_DownloadManual_E03.pdf (this document: English)

(3) MU909814_ReleaseNote_vxxx_E.pdf (release notes, Version xxx, English)

(4) uOTDR_CN_Readme.txt (version information for unzipped files)

The “uOTDR_xxx_CN.BBM“ file is the updater file that should be copied to a USB memory stick.

Note:

- Check first that this instrument supports the model of USB memory. For more details read the Firmware Update Notes at the end of this document.

Checking Firmware Version

Check the firmware version as explained Page 3-31 of the MU909014A/A1/B/B1, MU909015B/B1 µOTDR Module Operation Manual.

Note

- Always read the firmware release notes and check the firmware version of the instrument before running the firmware upgrade. No firmware upgrade is required when the current instrument firmware version and the version in the downloaded release notes are the same.

Firmware Upgrade Procedure

✓Summary

The main frame has a firmware upgrade function to add new functions and resolve any software bugs. The firmware is updated by reading the released update using installer file.

The latest firmware update can be downloaded from the home page at https://www.anritsu.com/zh-cn/test-measurement/support/downloads?model=MU909814B/15B

For details, contact Anritsu Service or nearest representative.

✓ Preparing for Firmware Upgrade

Copy the installer to USB memory using the following procedure.

1. Download the install file (.bbm extension) from the home page download site.
2. Copy the downloaded install file to the root folder of the USB memory.

   Example:

   Copy to D:¥, when the USB memory is drive D:.

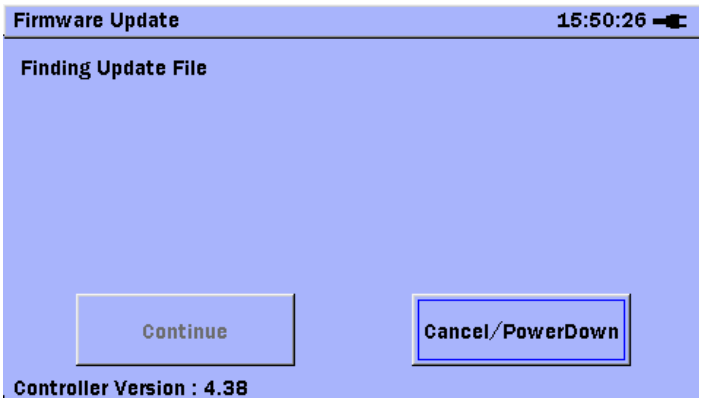
✓ Updating Firmware

⚠ CAUTION

ALWAYS use the AC adapter when updating the firmware.

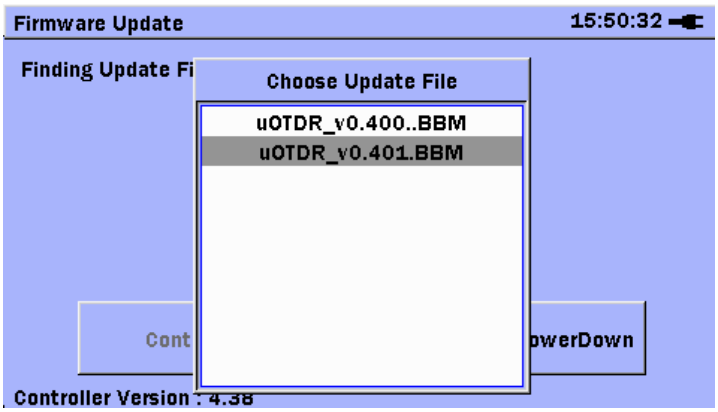
Update the firmware using the following procedure.

1. If operating, power down the unit.
2. Insert the USB memory with the copied install file into the main frame.
3. Connect the AC adapter to the main frame.
4. Hold down F1 while powering up the unit (press Menu).
5. Firmware Update screen is displayed.



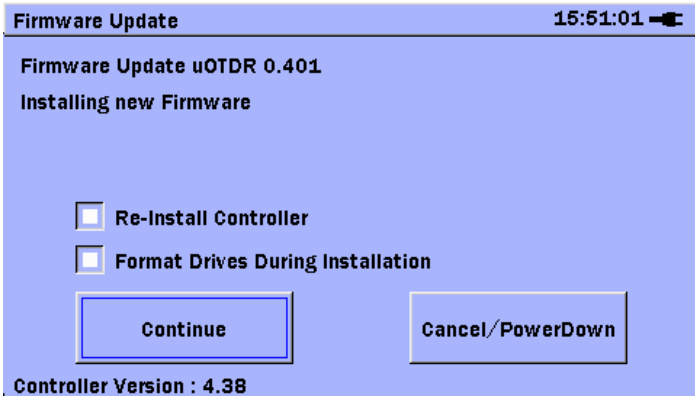
Initial Firmware Update Screen

6. When several install files have been saved to USB memory, the file selection screen is displayed. Press ▲ ▼ to select the required install file and press Set.



Install File Selection screen

7. The install file is read into the main frame by pressing **Continue** as described below.
   Use to select **Continue**, and then press to start updating the firmware.
   To cancel the update, use to select **Cancel/PowerDown**, and then press .

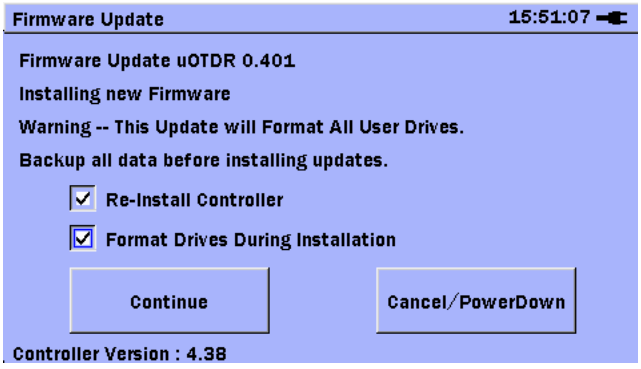


Starting Firmware Update

Select the firmware update options under the following circumstances:

- When the software does not start
- When data files cannot be read

- When Re-install Controller checked:
  Update the MT9099A main frame software before updating the firmware.
  Press to select **Re-install Controller** and press to update the firmware and bootloader contents.
- When Format Drives During Installation checked:
  Press to select **Format Drives During Installation** and press to format the internal memory before updating the firmware.



Firmware Update Options

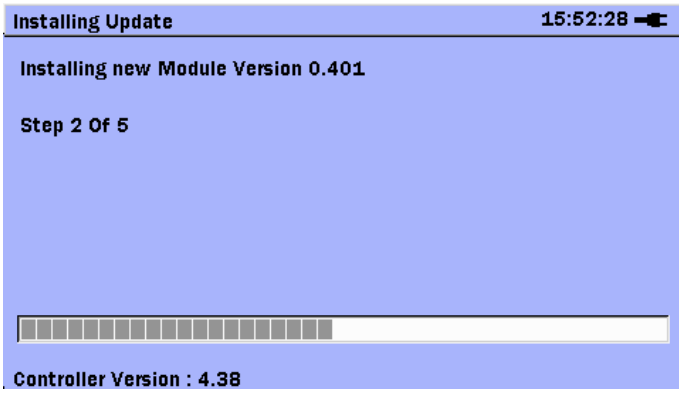
Note:

When updating firmware after selecting Format Drives During Installation, all memory in the main frame, excluding USB memory, is formatted. Before updating the firmware, we strongly recommend making a backup of the contents of the internal memory first.

⚠ Caution

If power to the main frame is cut while updating the bootloader, the main frame may be left unable to boot. NEVER cut the power while updating the bootloader.

8. A progress bar is displayed while the firmware is updating. It shows the progress of the firmware update.



Firmware Update Progress Bar

9. **Finish** is displayed when the firmware update is completed. Press Set to finish the update and switch off the power to the main frame.

Firmware Update Completed

Firmware Update Notes

- Download the newest firmware from the following URL.
  - https://www.anritsu.com/zh-cn/test-measurement/support/downloads?model=MU909814B/15B

- Anritsu has confirmed compatibility with USB memory from the makers listed in the following table. If your USB memory is not recognized by the MT9090A, please purchase one of the supported media types.

Manufacturer	Model/Capacity
Sony	POCKET BIT/32MB
Sony	POCKET BIT 512MB Turbo
GREEN HOUSE	PicoDrive/64 MB
TOSHIBA	TransMemory/256 MB
TOSHIBA	TransMemory/512 MB
ADTEC	DATASTICK/64 MB
Princeton	X i a o Jr./64 MB
BUFFALO	RUF2 - E1G - B/512 MB
I-O DATA	ToteBag/512 MB
Scan Disk	Cruzer Micro with Skins USB Flash Drive/256 MB
imation	Flash Drive Mini with swivel cap/256 MB
Transcend	JetFlash 256 MB

- NEVER remove the USB memory inserted into the MT9090A while updating, otherwise the firmware update will fail, leaving the MT9090A unable to restart.

- When updating the firmware, do not press any key on the MT9090A, otherwise the firmware update may fail, leaving the MT9090A unable to restart.

- When updating the firmware, do not turn off the power to the MT9090A, otherwise the firmware update will fail, leaving the MT9090A unable to restart.

- When updating the firmware, do not remove the AC adapter plug from the MT9090A, otherwise the firmware update may fail, leaving the MT9090A unable to restart.

- If the firmware update fails and the MT9090A cannot restart, please contact our Anritsu sales representative.