

Support Note

29 August 2023

TRIMBLE T100 TABLET: TRIMBLE BIOS/EC A10 UPDATE INSTRUCTIONS

This support note provides instructions for installing Trimble® BIOS / EC Revision A10 for the Trimble T100 tablet. This process is specifically for T100 devices that have already gone through the Microsoft® 'Out of Box Experience', by choosing the language, settings, user name, password, etc.

The BIOS (Basic Input/Output System) is firmware stored in non-volatile ROM on the motherboard and is the first software that loads when you power on the T100 device. It performs hardware initialization and configuration of settings, runs the Power On Self Test (POST), and then boots the operating system from the hard drive, handing control over to the operating system. It is an essential link between the hardware and software and controls many low level settings. Trimble recommends that you DO NOT modify any of the BIOS settings, as it could render the T100 device unusable or cause damage to the hardware.

The EC (Embedded Controller) is an essential component of the T100 device. It is a microcontroller that handles various system tasks that the OS does not handle, including power management, thermal management, processing signals from the keyboard buttons, LED status indicator management, and various system toggles and resets.

If your T100 device is performing as expected, there is no need to update the BIOS / EC. If you are experiencing issues with the screen, keyboard or power management, Trimble recommends that you update the BIOS/EC.

CAUTION - If you do not follow the steps outlined below, your device could become unusable and unrecoverable. The T100 device MUST remain plugged into external power during this process.

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Affected Units

This support note applies to all Trimble T100 devices.

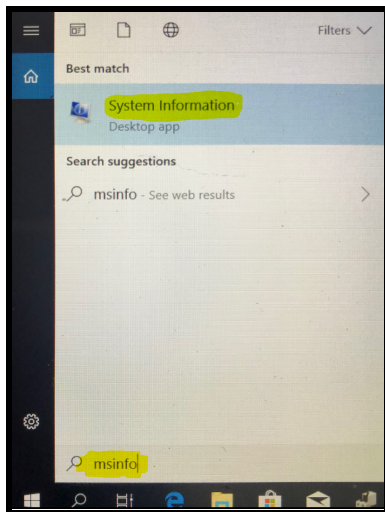
Required Accessories and Supporting Files

- T100 device
- T100 AC Charger
- BIOS zip file: <https://mcs.trimble.com/>
- USB-C flash drive, or USB-A flash drive and a USB-C to USB-A adapter cable

NOTE: An Internet connection is required to download the BIOS .zip file.

Determine What Version of the BIOS Firmware is Installed on the T100 device

1. On your T100 device, open a command prompt (CMD) or use the **Search** box on the taskbar and type **msinfo32**, then press the **Enter** key to open **System Information**:



2. In **System Information**, validate the **BIOS Version/Date**. It will show something similar to **American Megatrends Inc. A10**.
3. If the device does not have version A10 installed, follow the steps below to update it to the latest A10 revision.

Instructions for Updating the BIOS Firmware

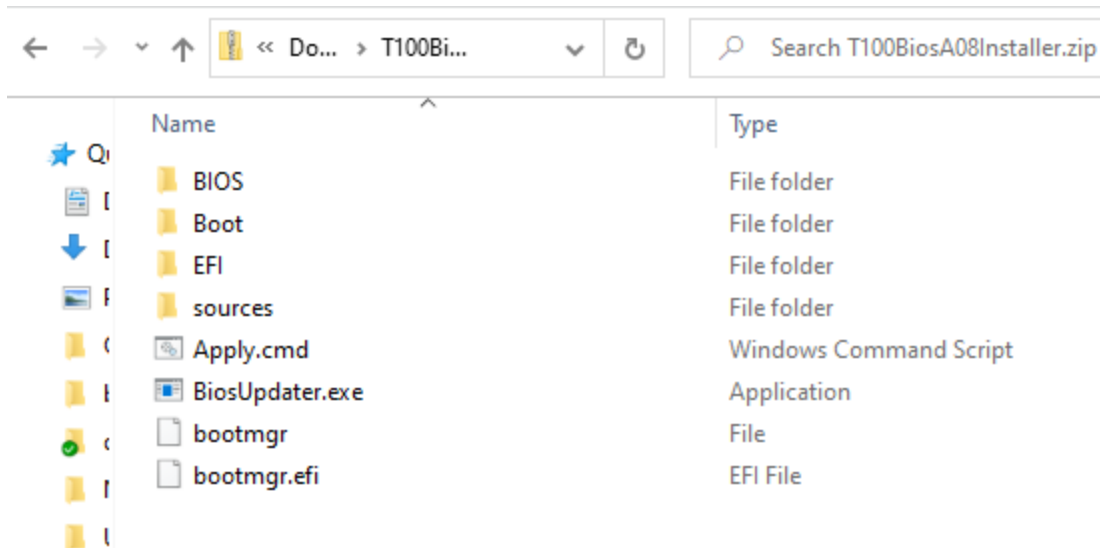
Prepare the USB Flash drive

1. Connect a USB flash drive to a Windows 10 computer. A USB C flash drive is recommended. Alternatively, a USB C to A cable could be used with a USB A flash drive. All data on the flash drive will be lost.
2. In Windows File Explorer, right click on the flash drive and select 'Format'.
3. Select Quick Format and Fat32 file system. These are the defaults.

4. Enter an appropriate volume label.
5. Click Start to format the USB flash drive.

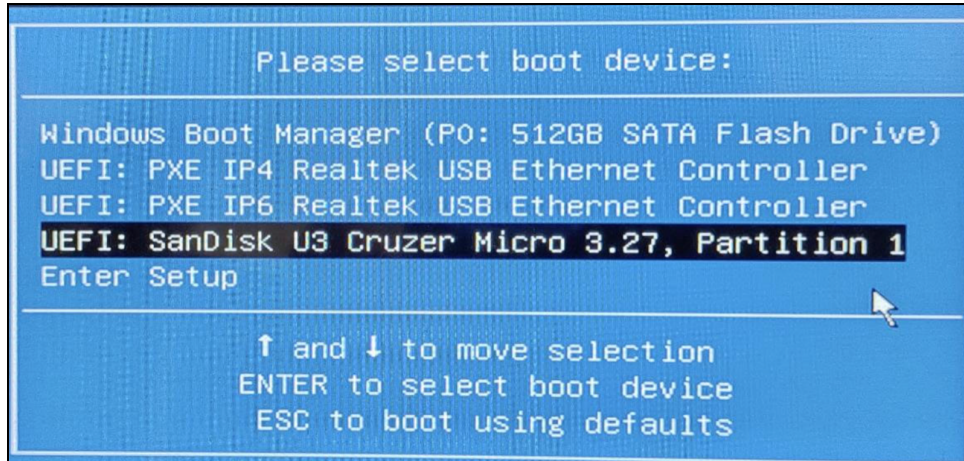
Copy the BIOS image and file

1. Download the latest released BIOS here:
<https://mcs.trimble.com/T100/T100BiosA10Installer.zip>
2. Unzip the .zip file.
3. Select all of the folders and files and copy them to the root directory of the newly formatted flash drive.
4. The directory structure should look like this:



Boot and install the BIOS*

1. Ensure that the T100 device is connected to its AC power supply and that it has power supplied to it, or else the BIOS will not be installed.
2. Shutdown the T100 tablet from the power menu.
3. Connect the USB flash drive containing the BIOS to the T100 tablet (using a USB C to A cable if necessary).
4. Press the **Power** button to power on the T100 device.
5. When the Trimble logo appears, press and release F4 key on T100 tablet repeatedly until a small arrow appears on the screen
6. Release the F4 key.
7. If the tablet boots normally to Windows 10, shutdown and repeat.
8. Using the directional pad select your USB flash drive from the boot options.



9. Press the OK key on the T100 tablet and the BIOS will be installed. Do nothing until the T100 tablet restarts and displays the home screen.
The T100 may reboot several times during the process.
10. Remove the flash drive.

***BIOS A10 MUST be updated from a flash drive in the boot menu, whereas previous versions could be updated from the executable.**

More Information

Contact your Trimble Regional Sales Manager or local Trimble Distribution Partner for more information.