

Product Facts

We make sure



Recovery BIOS and BIOS Update

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Product Recovery BIOS

Pages 3



Contents

What is a Flash BIOS?	2
What is a Recovery BIOS?	2
When should a BIOS be updated?	2
Where can I get BIOS Update Files?	2
How does a BIOS Update work?	2
How does a BIOS Recovery work?	3

What is a Flash BIOS?

As soon as a PC is powered on, the BIOS (Basic Input Output System) is loaded. The BIOS is responsible for testing hardware, initializing PC components and providing an interface. It resides in a so-called Flash Chip (EEPROM = electronically programmable read-only memory) on the mainboard and can be updated with a BIOS Update. The BIOS for mainboards made by Fujitsu Siemens Computers is based on the Phoenix NuBIOS and is customized by the in-house BIOS development team to match best mainboard, components and operating systems.

What is a Recovery BIOS?

If an error occurs during the BIOS Update (e.g. due to power failure) the BIOS may become disrupted. Thanks to the Fujitsu Siemens Computers Recovery BIOS a new BIOS can be flashed any time, thereby restoring the functionality.

When should a BIOS be updated?

Fujitsu Siemens Computers provides new BIOS Versions as soon as it is needed to ensure compatibility with new operating systems, new software or new hardware. Additionally, new features can be incorporated. The BIOS should be updated whenever a problem cannot be solved with new drivers or software.

Where can I get BIOS Update Files?

Please consult our Technical Support Page on our website at <http://www.fujitsu-siemens.com/mainboard> (BIOS versions)

Downloads at <http://download.fujitsu-siemens.com>
or on OEM DU CD

How does a BIOS Update work?

The BIOS can be updated in one of two different ways:

- Using a bootable BIOS Update Diskette or
- From Windows with the Utility DeskFlash

How to create a bootable BIOS Update Diskette: (please check before, what BIOS matches to your mainboard)

1. Download the update file from our website to your PC.
2. Insert a blank floppy. (1,44MB).
3. Run the update file (e.g. 1837108.EXE).
4. A bootable floppy is created, leave it in the floppy disk drive.
5. Restart the PC.
6. Ensure, that the system will boot from diskette (boot order)
7. Follow the on-screen directions.

A BIOS Update can be done directly from Windows using the Utility DeskFlash which is provided on the CD "Drivers & Utilities"

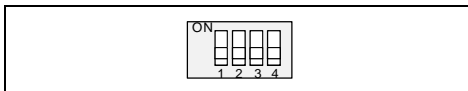
How does a BIOS Recovery work?

The Recovery BIOS resides in its own area in the Flash Memory. When a problem occurs during a BIOS Update (e.g. due to power failure) the BIOS-Setup in the Flash Memory is disrupted. But you may restore the BIOS-Setup using the "Flash Memory Recovery Mode".

1. Turn off the computer, disconnect the cable to the wall outlet and remove the cover from the case (housing).
2. According to your type of mainboard, set switches or jumpers to: "System BIOS recovery"
3. Replace the cover, reconnect the cable to the wall outlet.
4. Insert a BIOS-Update-Diskette (see "How does a BIOS Update work?") and turn on the computer
5. Wait for sounds from the system speaker.
The recovery was successful when you hear beeps in the sequence "short-short—long—long—long" and the floppy light turns dark. The BIOS Recovery may take a few minutes.
6. Turn off the computer, disconnect the cable to the wall outlet and remove the cover from the case.
7. Reset the switches or jumpers to their original position
8. Replace the cover, reconnect the cable to the wall outlet and remove the diskette.
9. Turn on the computer and enter the BIOS-Setup. (Press **[F2]** during Boot)
10. In the menu "Advanced" set "Reset Configuration Data" to **[YES]**.
11. In the menu "Exit" choose "Save Changes & Exit".

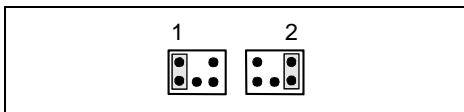
The computer now restarts and the BIOS Recovery is complete.

Setting with switches



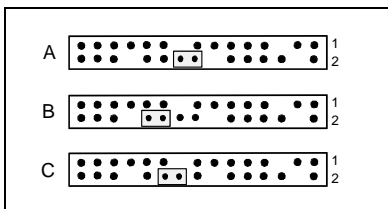
- Switch 1 = Skipping system and BIOS Setup password
- Switch 2 = System BIOS recovery
- Switch 3 = must be set to *off*
- Switch 4 = must be set to *off*

Setting with jumpers



- Pin pair 1 inserted = Skipping system and BIOS Setup password
- Pin pair 2 inserted = System BIOS recovery
- Any other setting = State of supply; jumper has no function

Setting via control-panel plug connector



- Pin pair A inserted = Skipping system and BIOS Setup password
- Pin pair B inserted = System BIOS recovery
- Pin pair C inserted = Factory setting

Information and downloads

Information:

<http://www.fujitsu-siemens.com/mainboards>

Downloads (manuals, drivers, BIOS):

<http://download.fujitsu-siemens.com>