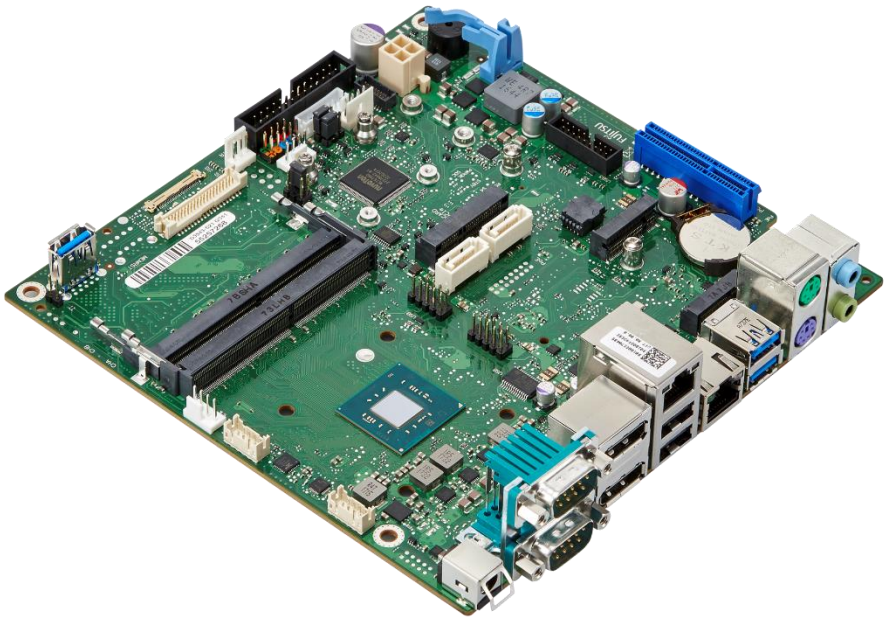
Fujitsu *Gemini Lake* Mini-ITX Mainboard

D3543-S

BIOS Release Document



BIOS *Gemini Lake Ind.* D3543-S

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Revision History:

Date	BIOS Version	Notes
27.04.2018	R1.1.0	Added new BIOS version (R1.1.0)
19.04.2018	R1.0.0	Initial mass production release

1 General Notes

This BIOS is based on the AMI Aptio V5.0.0.13 R1.x.x

1.1 Released OS Versions

- MS Windows 10 (64bit)

1.2 BIOS Update Options

EFI Flash Update

Use ZIP-files for EFI-based BIOS Update

- Copy content of the BIOS ZIP to any FAT32 formatted USB drive/stick. The files should be visible in following directories:
  - EfiFlash.efi -> /EFI/FUJITSU
  - Flash update files (e.g. .UPD) in root directory of USB stick.
  - Boot the system and choose "FUJITSU Update Utility" in F12 boot menu.

Please see the EFIFlash for EFI (EfiFlashEfiUsage.txt) documentation for more information:
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Services/Software&Tools/Common-Mainboard-Tools/EFI-Flash_Tool/

Windows Flash Update

Use *Dxxx-xyz.DFI.$xe* for Windows-based BIOS update
→ Rename file to *.exe after download and run exe-file from MS Windows

Auto BIOS Update

With Auto BIOS Update it is possible to check a Fujitsu server automatically to see if there is a new BIOS version for the system. For the update, no operating system or external storage medium is required. This feature must be enabled in BIOS Setup first.
For details on the Auto BIOS Update function please see the BIOS manual.

BIOS Recovery

Please see the EFIFlash documentation for more information:
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Services/Software&Tools/Common-Mainboard-Tools/EFI-Flash_Tool/

Additional information

If you have any problems after a BIOS flash please try if "Load Optimized Default Values" (F3) in BIOS setup solves the problem.

1.3 Modify BIOS Setup Settings and Defaults (Tool BIOSSET)

BIOS settings can be modified by the Windows and Linux tool BIOSSET (Modify BIOS Setup Settings and Defaults). See BIOSSET tool help (parameter –h) for further details.

ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Services/Software&Tools/Common-Mainboard-Tools/Deskflash/
Windows BIOSSET is part of the package DeskView_x64_Instant_BIOS_Management_Vx.yy.zzzz.zip
Linux BIOSSET is part of the package DeskView_BIOS_Management_for_Linux_V1.xx.yyyy.x86_64.zip

1.4 What's about DOS support and where are the DOS tools?

Due to Intel's and Microsoft's decision, there is no "Legacy" OS support (CSM mode) implemented anymore. So only usage of UEFI operating systems is possible. We will provide the necessary tools and documentation(*) for Windows and Linux.

Editcmos (DOS) -> Biosset (Windows and Linux)
EfiFlash.exe (DOS) -> Efiflash.efi (EFI environment) or Dskflash/Deskflash (Windows/Linux)
SMCO, LVDS tool, OEMIdent are also available for Windows and Linux.

(*) not all documentation and tools are available yet. They will be uploaded on our FTP server as soon as possible.

1.5 FTP BIOS Folder D3543-S

The released BIOS versions are available here:
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D3543-S_Mini-ITX/BIOS_D3543-S/

1.6 Note: Customer Service Release BIOS

Besides the released BIOS versions there may be additional BIOS versions (Customer Service Release BIOS = CSR BIOS) that solve specific customer problems.
Please note: These versions are available via OEM FTP only and they are not pre-installed ex factory.

2 BIOS R1.0.0

First released mass production BIOS

Known Issues and Limitations:

- No legacy OS support (UEFI only due to Intel restrictions)!
- BIOS Recovery flash not working as expected: BIOS Recovery flash process is running in endless loop until Recovery jumper is removed.
- Boot logo cannot be flashed
- LVDS Display remains dark with setting LVDS Brightness Control: OS controlled
- WOL from ACPI S3 is working although disabled in LAN driver.
- Flashing of an archive bios file does not work.
- Internal COM Ports COM3 (RS232) and COM4 (RS232/RS422/RS485) not yet supported.
- Clicking with the mouse while transitioning to S3 causes system freeze.

3 BIOS R1.1.0 [new]

BIOS Changes vs. R1.0.0:

- Feature: Remote changeability for BIOS setup item "Active Processor Cores" (at "Advanced – CPU Configuration" submenu) implemented
- Feature: "USB Port Security" mechanism updated.
- Fixed: Power consumption in power off mode reduced.
- Fixed: WOL from ACPI S3 was working although disabled in LAN driver.
- Fixed: eDP Brightness control in BIOS Setup did not work.
- Fixed: HDD unlock via HDD master password not working.
- Fixed: Clicking with the mouse while transitioning to S3 will freeze the system.
- Fixed: Wake on USB Keyboard from S5 working, although disabled in BIOS.
- Fixed: FTS Subsystem Vendor ID was not programmed to Intel graphic device.
- Fixed: Boot logo exchange via capsule update not working.
- Fixed: Corrected setup strings for "Package C State limit"
- Fixed: BIOS setup settings "External Power Button Control: Power On only" and "External Power Button Control: Enabled" (at "Power" submenu) not working

Known Issues and Limitations:

- No legacy OS support (UEFI only due to Intel restrictions)!
- BIOS Recovery flash not working as expected: BIOS Recovery flash process is running in endless loop until Recovery jumper is removed.
- LVDS Display remains dark with setting LVDS Brightness Control: OS controlled. LVDS Brightness tool is needed. OS slider only works for eDP.
- Flashing of an archive bios file does not work if it was created with BIOS version < R1.0.0.
- Internal COM Ports COM3 (RS232) and COM4 (RS232/RS422/RS485) not yet supported.

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