Fujitsu *CoffeeLake* Mini STX Mainboard

D3654-B

BIOS Release Document

BIOS *CoffeeLake* Desktop 3654-B FUJITSU

Content:

Revision History:

Date	BIOS Version	Notes
11.03.2019	R1.13.0	Added new BIOS version
03.12.2018	R1.2.0	Initial mass production release

BIOS *CoffeeLake* Desktop 3654-B FUJITSU

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:
    o EfiFlash.efi -> /EFI/FUJITSU
    o Flash update files (e.g. .UPD) in root directory of USB stick.
    o Boot the system and choose "FUJITSU Update Utility" in F12 boot menu.

Please see the BIOS-Flash-Tools documentation for more information:
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Services/Software&Tools/BIOS-Flash-Tools/

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 BIOS-Flash-Tools documentation for more information:
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Services/Software&Tools/BIOS-Flash-Tools/

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/BiosSet/

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.

ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Services/Software&Tools/Common-Mainboard-Tools/

1.5 FTP BIOS Folder

The released BIOS versions are available here:
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D3654-B_Mini-STX/BIOS_D3654-B/

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 R1.2.0

First released mass production BIOS

Known Issues and Limitations:

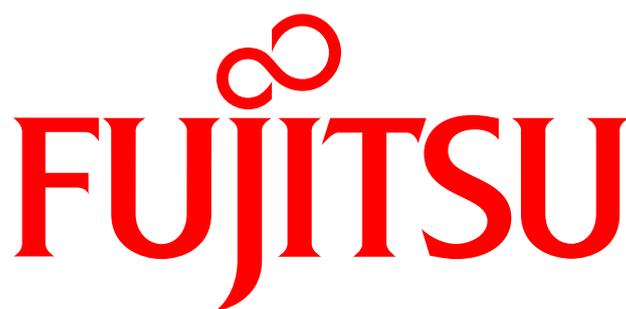- No legacy OS support (UEFI only due to Intel restrictions)!

3 BIOS R1.13.0 [new]

Changes vs. previous released BIOS

- Integrated Fixes for PSIRT-TA-201810-007, PSIRT-TA-201810-004, PSIRT-TA-201901-002, CVE-2018-12201, CVE-2018-12202, CVE-2018-12203, CVE-2018-12204, CVE-2018-12205

- Updated CPU Microcode (0xAA) for CoffeeLake-S U-0

- Updated Intel Reference Code: Added support for 9th gen CPUs.

- Updated Power Management Integration for CFL Refresh (9th gen) CPU support.

- Updated to Management Engine Firmware version 12.0.30.1408

- Updated BMC Teutates Firmware (V058)

- Feature: Added Setup Setting:

    o Advanced > CPU Configuration > "Intel® Speed Shift Technology"

    o Power > "CPU TDP Limit". Setting can only be activated by system integrator tool "OEMIdent"

- Feature: Separated WLAN/Bluetooth option:

    o Advanced > Onboard Devices Configuration > WLAN only (Setup Item ID 0x1C0)

    o Advanced > Onboard Devices Configuration > Bluetooth only (Setup Item ID 0x1D0)

- Improved BIOS firmware update time (takes effect on upcoming updates).

- Fixed: Corrected POST messages while execution of Auto BIOS update.

- Fixed: USB Port Security "Enable used ports" is not working properly after S5 / Standby.

- Fixed: Loading BIOS default values via Recovery Jumper (without connected recovery image) not working.

- Fixed: Removed option "External Power Button" due to missing PS/2 port.

- Fixed: WOL was not working under some circumstances

Known Issues and Limitations:

- No legacy OS support (UEFI only due to Intel restrictions)!

- Default value for "Intel ® Speed Shift Technology" (Hardware P-State control) has been changed to "Disabled". This will only take effect, if you load "Optimized Defaults" after BIOS update.

- BIOS downgrade to a version prior R1.13.0 is blocked due to security reasons and the support of 9th gen Intel CPUs!

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