

**GBT BMC Firmware Upgrade User Guide**

GIGABYTE Software

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## 0. General Information

### 0.1. Issue Control

This document was edited with **Microsoft Word, Version 2016**. The graphic drawings are originally sketched in **Microsoft PowerPoint Version 2016**.

### 0.2. Record of Changes

Table 0-1. Record of Changes

Issue	Date	Authors	Reason for Changes
1.01	2021/04/08	Popcorn Li	First release.
1.02	2021/09/30	Popcorn Li	Update Files Hierarchy and gigaflash version
1.03	2022/01/20	Frank Cheng	Disable V13 (2600) preserve conf function for now
1.04	2022/03/16	Frank.Cheng	Reenable V13 preserve conf function, Update some Files Hierarchy and gigaflash version
1.05	2022/06/28	Frank.Cheng	Add UEFI arm gigaflash tool, update uefi command for arm uefi.
1.06	2023/05/02	Peter Lin	Add “preserve” parameter to update BMC in preserve mode without ask preserve or not.

### 0.3. References

NO	Document title

### 0.4. Acronyms

## 1. Files Hierarchy

### Root Folder

```

|-- fw
    -- 13xxxx.bin           ; BMC firmware Binary, file name was BMC firmware version
|-- Tools
    -- x64                  ; Windows driver for windows x64
    -- x64_Win8             ; Windows driver for windows8 x64
    -- x86                  ; Windows driver for windows x32
    -- gigaflash            ; GBT BMC flash tool for Linux
    -- gigaflash.efi        ; GBT BMC flash tool for UEFI
    -- gigaflash.exe        ; GBT BMC flash tool for Windows
    -- gigaflash_arm        ; GBT BMC flash tool for ARM Linux
    -- gigaflash_arm.efi    ; GBT BMC flash tool for ARM UEFI
    -- gigaflash_x64        ; GBT BMC flash tool for Linux x64
    -- gigaflash_x64.exe    ; GBT BMC flash tool for Windows x64
    -- bmc_fw_upgrade_linux.sh ; Linux x86/ARM update BMC firmware script
    -- bmc_fw_upgrade_uefi.nsh ; UEFI x86/ARM update BMC firmware script
    -- bmc_fw_upgrade_win.bat ; Windows x86 update BMC firmware script
    -- BMC_FW_Upgrade_User_Guide.pdf ; GBT BMC firmware upgrade user guide
    -- BMC_Release_Note_12xxxx.doc ; GBT BMC firmware release note

```

## 2. Upgrade BMC Firmware in Linux

1. Get Linux [root permission](#).
2. Change path to the root directory of Upgrade Package.
3. Run "bmc\_fw\_update\_linux.sh".

```
gigabyte@gigabyte-VirtualBox: ~/Desktop/125105$ ./bmc_fw_update_linux.sh x32
gigaflash v1.7.3
Do you want to preserve configuration? (Y/n)
```

4. Enter "Y/y" to preserve configuration or Enter N/n to flash entire BMC.

User command:

### NAME

bmc\_fw\_update\_linux.sh - Update script

### SYNOPSIS

bmc\_fw\_update\_linux.sh [OPTION]

### DESCRIPTION

Update BMC flash script. Below is option item:

#### CS

Select to update Active/Backup BMC firmware. (CS=1 only support on GBT Dual Platform).

0: Active

1: Backup

Default value is 0.

#### flashall

Flash entire BMC without warning message.

Default: Ask user preserve configuration or not

#### preserve

Flash BMC and preserve configuration without warning message.

Default: Ask user preserve configuration or not

#### x32

Set update tool to 32-bit mode

Default x86 64-bit mode

#### arm

Set update tool to arm mode (arm Linux only support 64-bit)

Default x86 64-bit mode

Example for flash entire BMC and select BMC address in address 0:

[bmc\\_fw\\_update\\_linux.sh cs 0 flashall](#)

### 3. Upgrade BMC Firmware in Windows

1. Open Command line with Windows [Administrator permission](#).
2. Change path to the root directory of Upgrade Package.
3. Run "bmc\_fw\_update\_win.bat".

```
C:\Users\samsu\Desktop\125403>bmc_fw_update_win.bat
"Tools\gigaflash_x64.exe fw\125403.bin -2500"
gigaflash v1.8.0
Do you want to preserve configuration? (Y/N)
```

4. Enter "Y/y" to preserve configuration or Enter N/n to flash entire BMC.

User command:

#### NAME

bmc\_fw\_update\_win.bat - Update script

#### SYNOPSIS

bmc\_fw\_update\_win.bat [OPTION]

#### DESCRIPTION

Update BMC flash script. Below is option item:

##### CS

Select to update Active/Backup BMC firmware. (CS=1 only support on GBT Dual Platform).

0: Active

1: Backup

Default value is 0.

##### flashall

Flash entire BMC without warning message.

Default: Ask user preserve configuration or not

##### preserve

Flash BMC and preserve configuration without warning message.

Default: Ask user preserve configuration or not

##### x32

Set update tool to 32-bit mode

Default x86 64-bit mode

Example for flash entire BMC and select BMC address in address 0:

[bmc\\_fw\\_update\\_win.bat cs 0 flashall](#)

## 4. Upgrade BMC Firmware in UEFI

1. Change path to the root directory of Upgrade Package.
2. Run "bmc\_fw\_update\_uefi.nsh"

```
FS0:\125403\> bmc_fw_update_uefi.nsh
FS0:\125403\> echo -off
gigaflash v1.8.0
Do you want to preserve configuration? (Y/N)
```

3. Enter "Y/y" to preserve configuration or Enter N/n to flash entire BMC.

User command:

### NAME

bmc\_fw\_update\_uefi.nsh - Update script

### SYNOPSIS

bmc\_fw\_update\_uefi.nsh [OPTION]

### DESCRIPTION

Update BMC flash script. Below is option item:

#### cs

Select to update Active/Backup BMC firmware. (CS=1 only support on GBT Dual Platform).

0: Active

1: Backup

Default value is 0.

#### flashall

Flash entire BMC without warning message.

Default: Ask user preserve configuration or not

#### preserve

Flash BMC and preserve configuration without warning message.

Default: Ask user preserve configuration or not

#### arm

Set update tool to arm mode

Default: x86 64 mode

Example for flash entire BMC and select BMC address in address 0 in x86:

`bmc_fw_update_uefi.nsh cs 0 flashall`

Example for flash entire BMC and select BMC address in address 0 in uefi-arm:

`bmc_fw_update_uefi.nsh cs 0 flashall arm`