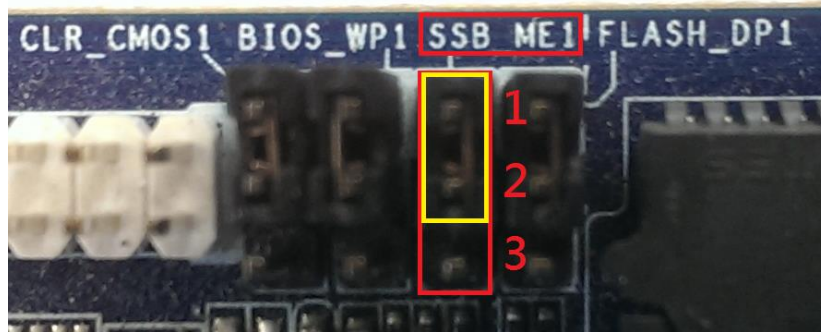


GIGABYTE BIOS Update SOP

Please select first below update situation.

1. [F version BIOS update to R version BIOS.](#)
2. [\(F version to F version\) or \(R version to R version\) update BIOS.](#)

1. F version BIOS update to R version BIOS:



➤ Please check first **SSB_ME1** Jumper keep **1-2** location.

We provided two kind of method to update BIOS for support V2 serial CPU.

Method A. Didn't need to move Jumper setting to finish flashing BIOS. (Easy Update)

Method B. Need to move Jumper setting to finish flashing BIOS. (Fully Update)

Note: The Method A. will not update SPI descriptor region.

A. Flash BIOS and Intel ME firmware.

Note: We will backup BIOS DMI information and copy to newly BIOS.

1. Boot to DOS.
2. Execute **FB 1**.(system will auto execute flash BIOS and ME)

```
waiting for create necessary Flash File.
execute 1 sequence, use FPT flash BIOS and Afudos flash ME.
Creating "Config.dms" file.....
Done

Intel (R) Flash Programming Tool. Version: 7.1.50.1166
Copyright (c) 2007-2011, Intel Corporation. All rights reserved.

Platform: Intel(R) Patsburg Chipset - Reserved DID 0x1D41 Revision:
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
MX25L6405D    ID:0xC22017    Size: 8192KB (65536Kb)

- Erasing Flash Block [0x800000] - 100% complete.
- Programming Flash [0x800000] 4096KB of 4096KB - 100% complete.
- Verifying Flash [0x800000] 4096KB of 4096KB - 100% complete.
RESULT: The data is identical.

FPT Operation Passed
    1 file(s) copied
Fpt BIOS Flash success!
System cold boot for next step!
waiting for 5 secs...
```

```
C:\>C:\FQA\1\fh.bat 2
+-----+
|               AMI Firmware Update Utility  v3.05.02               |
|      Copyright (C)2013 American Megatrends Inc. All Rights Reserved      |
+-----+
Reading flash ..... done
- ME Data Size checking . ok
- FFS checksums ..... ok
- Update success for /FDT!!
- Update success for /PDR!!
- Successful Update Recovery Loader to OPRx!!
- Successful Update FPT, MFSB, FTPR and MFS!!
- ME Entire Image update success !!
WARNING : System must power-off to have the changes take effect!
Afudos Flash success! waiting for 5 secs to reboot syste

Updating system version...Done
Updating system serial number...Done
Updating system UUID...Done
Updating system SKU number...Done
Updating baseboard manufacturer...Done
Updating baseboard name...Done
Updating baseboard version...Done
Updating baseboard serial number...Done
Updating baseboard asset tag...Done
Updating baseboard Location in Chassis...Done
Updating chassis manufacturer...Done
Updating chassis type...Done
Updating chassis version...Done
Updating chassis serial number...Done
Updating chassis tag number...Done
Updating chassis OEM value...Done
Initializing the SMBIOS interface. Please wait a moment.....
      Name                R/W  Status  Information
-----
(/IV)BIOS version          W    Done   "R04"
(/ID)BIOS release date      W    Done   "09/28/2013"
Restart the system!
All BIOS flash steps are done! Please AC OFF and AC ON again. That
=====GigaByte Flash BIOS Utility v0.1=====
C:\FQA\1>_
```

3. Finished, Please **AC off** and AC on again.

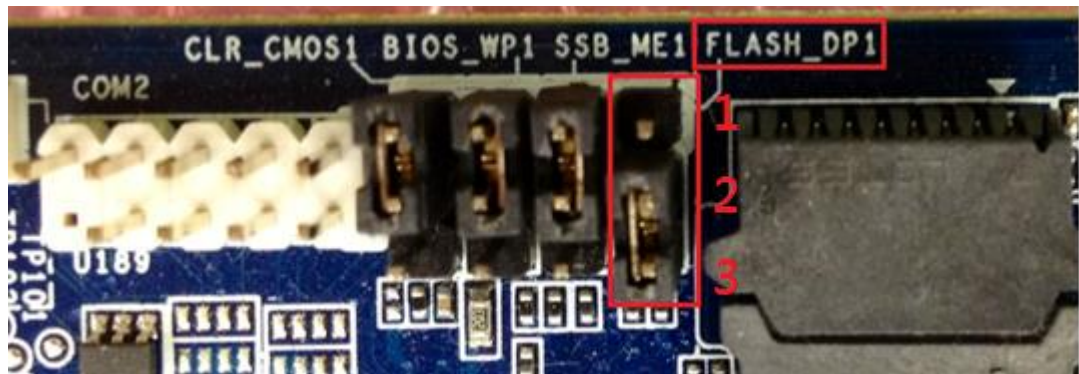
B. Use FPT tool flash BIOS + ME firmware. (Need move Jumper)

Note: We will backup BIOS DMI information and copy to newly BIOS.

1. Keep **AC off**.
2. Please find **FLASH_DP1**.

(If you cannot find FLASH_DP1 jumper, please refer below jumper name list to find this jumper. MEUPDATE\ME_UPDATE\HDA_SDO1\SSB_ME2\ME_RCVR\ME_RVCR\FLH_JP1)

Jumper and move to **2-3** location.



3. Boot into DOS and execute **FB 2**.


```

FPT Operation Passed

Intel (R) Flash Programming Tool. Version: 7.1.50.1166
Copyright (c) 2007-2011, Intel Corporation. All rights reserved

Platform: Intel(R) Patsburg Chipset - Reserved DID 0x1D41 Revis
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
MX25L6405D      ID:0xC22017      Size: 8192KB (65536Kb)

PDR region already exists in flash. You may lose important data
Do you want to continue? Y/<N> or q to quit : Y

- Erasing Flash Block [0x030000] - 100% complete.
- Programming Flash [0x030000] 64KB of 64KB - 100% complete
- Verifying Flash [0x030000] 64KB of 64KB - 100% complete.
RESULT: The data is identical.

FPT Operation Passed
      1 file(s) copied
FPT Flash success! waiting for 5 secs to reboot system

```

```

Updating system UUID...Done
Updating system SKU number...Done
Updating system family...Done
Updating baseboard manufacturer...Done
Updating baseboard name...Done
Updating baseboard version...Done
Updating baseboard serial number...Done
Updating baseboard asset tag...Done
Updating baseboard Location in Chassis...Done
Updating chassis manufacturer...Done
Updating chassis type...Done
Updating chassis version...Done
Updating chassis serial number...Done
Updating chassis tag number...Done
Updating chassis OEM value...Done
Updating chassis SKU Number...Done
Initializing the SMBIOS interface. Please wait a moment.....

```

Name	R/W	Status	Information
(/IV)BIOS version	W	Done	"R04"
(/ID)BIOS release date	W	Done	"09/28/2013"

```

Restart the system!
All BIOS flash steps are done! Please AC OFF and AC ON again. Thanks
=====GigaByte Flash BIOS Utility v0.1=====
C:\FQA\1>_

```

4. When flash finished. Please **AC off** and move Jumper back to **1-2** location.

2. (F version to F version) or (R version to R version) update BIOS.

A. Flash BIOS only.

Note: We will backup BIOS DMI information and copy to newly BIOS.

1. Boot to DOS.
2. Execute **FB 3**.

```
AMI Firmware Update Utility v3.85.82
Copyright (C)2013 American Megatrends Inc. All Rights Reserved

Reading flash ..... done
- ME Data Size checking . ok
- FFS checksums ..... ok
Erasing Boot Block ..... done
Updating Boot Block ..... done
Verifying Boot Block ..... done
Erasing Main Block ..... done
Updating Main Block ..... done
Verifying Main Block ..... done
Erasing NVRAM Block ..... done
Updating NVRAM Block ..... done
Verifying NVRAM Block ..... done
Erasing RomHole Block ..... done
Updating RomHole Block ..... done
Verifying RomHole Block ..... done
Note:
Please system reset after finish updated.
1 file(s) copied
AFUDos Flash BIOS success! waiting for 5 secs to reboot system
```

```
Updating system UUID...Done
Updating system SKU number...Done
Updating system family...Done
Updating baseboard manufacturer...Done
Updating baseboard name...Done
Updating baseboard version...Done
Updating baseboard serial number...Done
Updating baseboard asset tag...Done
Updating baseboard Location in Chassis...Done
Updating chassis manufacturer...Done
Updating chassis type...Done
Updating chassis version...Done
Updating chassis serial number...Done
Updating chassis tag number...Done
Updating chassis OEM value...Done
Updating chassis SKU Number...Done
Initializing the SMBIOS interface. Please wait a moment.....
-----
Name           R/W  Status  Information
-----
(\\IV)BIOS version      W    Done   "R04"
(\\ID)BIOS release date  W    Done   "09/28/2013"
Restart the system!
All BIOS flash steps are done! Please AC OFF and AC ON again. Thanks!
=====GigaByte Flash BIOS Utility v0.1=====
C:\FQA\1>_
```

3. Finished. Please **AC off** and AC on again.