

GIGABYTE™

GIGABYTE Easy BIOS Refresh

User's Guide

Rev.1.0

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Documentation Classifications

In order to assist in the use of this product, GIGABYTE provides the following types of documentation:

- User Manual: detailed information & steps about the installation, configuration and use of this product (e.g. motherboard, server barebones), covering hardware and BIOS.
- User Guide: detailed information about the installation & use of an add-on hardware or software component (e.g. BMC firmware, rail-kit) compatible with this product.
- Quick Installation Guide: a short guide with visual diagrams that you can reference easily for installation purposes of this product (e.g. motherboard, server barebones).

Please see the support section of the online product page to check the current availability of these documents.

For More Information

For related product specifications, the latest firmware and software, and other information please visit our website at <http://www.gigabyte.com>

For GIGABYTE distributors and resellers, additional sales & marketing materials are available from our reseller portal: <http://reseller.b2b.gigabyte.com>

For further technical assistance, please contact your GIGABYTE representative or visit <https://esupport.gigabyte.com/> to create a new support ticket

For any general sales or marketing enquiries, you may also message GIGABYTE server directly by email: server.grp@gigabyte.com

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Chapter 1 Getting Started

1-1 Update BIOS by Using Gigabyte Server Management Console

Supported Browsers

- Chrome latest version.
- Edge latest version.
- Firefox latest version.



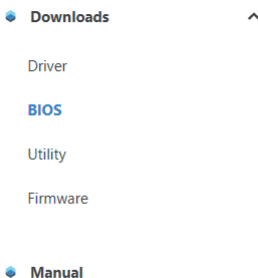
Note: It is advisable to use Chrome or IE for H5Viewer, since Firefox has its own memory limitations.

1-1-1 Download the BIOS file from the Website

1. Download the BIOS file from Gigabyte website: www.gigabyte.com.
2. Search your model.
3. Go to the product page.
4. Select **Support**.

OVERVIEW SPECIFICATIONS **SUPPORT** RESOURCES BUY

5. Select **BIOS**. Click Download to save the package file.



6. Choose the folder location. (Save the file to a known location on the client system) and Click **Save**.
7. Go to the location on the client system and extract the package file.

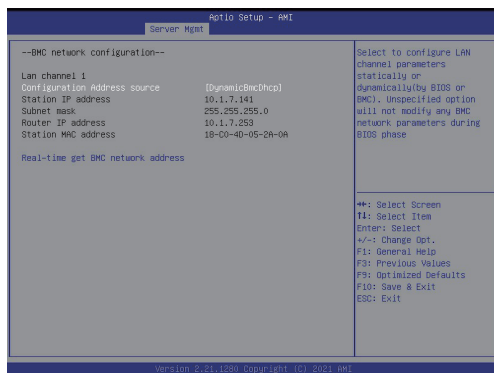
1-1-2 Gigabyte Management Console Network Configuration

Follow the instruction to enable the console redirection function.

1. You can gather the IP address on the POST screen.



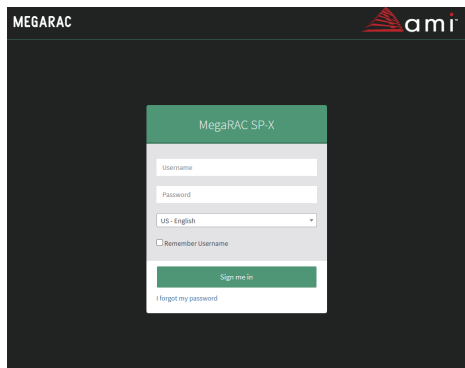
2. Or, Go to BIOS setup menu.
3. Select **Server Management**.
4. Select **BMC network Configuration**.
5. Define Configuration Address source to DynamicBmcDhcp or Static.
6. Save and Exit.
7. The **BMC IP Address** will appear on the **Station IP address** parameter.



8. Save the configuration and exit BIOS setup menu.

1-1-3 Log In Gigabyte Management Console

To access the Gigabyte Management Console, the BMC Web utility will prompt you to enter the User Name and Password.



The fields are explained as follows:

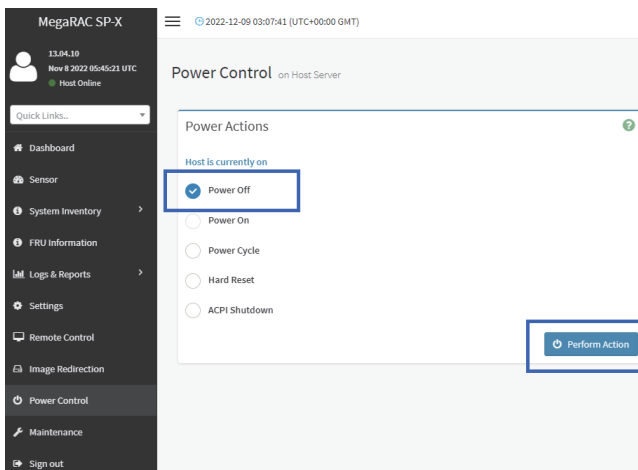
For basic login to the BMC Web UI, use the following login:

- **Username:** admin
- **Password:** Refer to unique MB serial number.

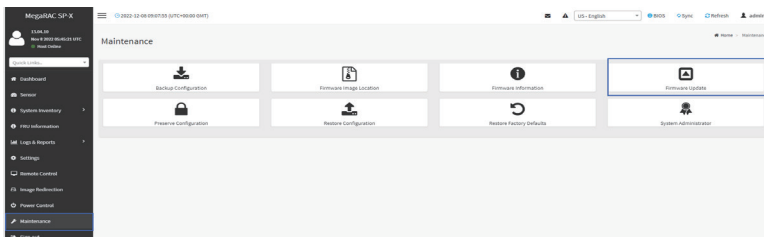
1-1-4 Entering Gigabyte Management Console

After entering Gigabyte Management Console follow the instructions to update BIOS.

1. Go to **Power Control**, Power Off the client, **Perform Action**



2. Go to **Maintenance** page and select Firmware Update.



3. Click Browse icon and select the BIOS image file. Click **Start firmware updates**.

Firmware Update

?

Dump BIOS

Note:

Following are the Firmware update methods and components supported in this page.

- Dual Firmware update.
- HPM Firmware update supports the following components.
 - BOOT and APP
 - BIOS
 - BRCM RAID
 - CPLD
- BIOS Firmware update

Select Firmware Image

Browse

Start firmware update

WARNING:Please note that after entering the update mode, the widgets, other web pages and services will not work. All the open widgets will be automatically closed. If the upgradation is cancelled in the middle of the wizard, the device will be reset only for BMC BOOT, and APP components of Firmware.

4. Select BIOS1 or BIOS2 in the select BIOS field. Click **Process to Flash**.

?

Dump BIOS

Note:

Following are the Firmware update methods and components supported in this page.

- Dual Firmware update.
- BIOS update (*.rbu). --- Easy BIOS Refresh
- MB_CPLD update (*.rcu).
- BPB_CPLD update (*.rcu).
- CPLD
- BIOS Firmware update

Select Firmware Image

Choose File image.RBU

Start firmware update

Protocol Type: HTTPS

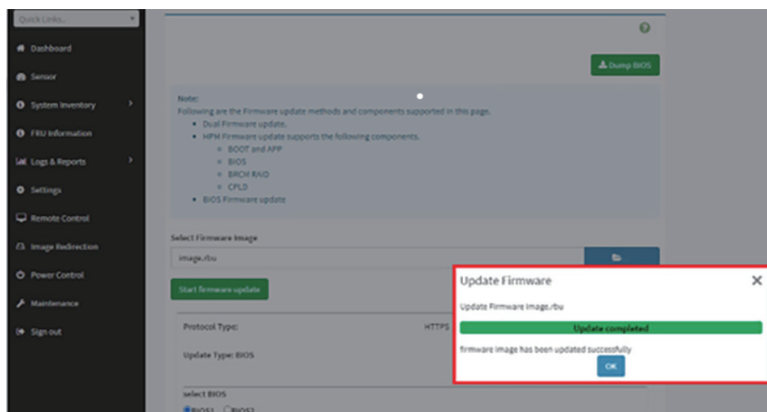
Update Type: BIOS

select BIOS

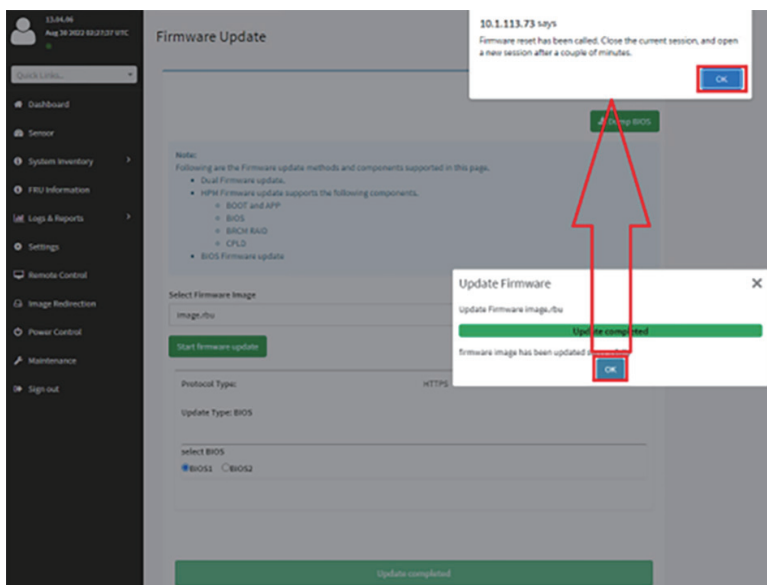
☒ BIOS1 ☐ BIOS2

Proceed to Flash

5. After clicking **Proceed to Flash**, a double confirmation dialog box appears. Click OK to process BIOS flash.
6. Wait for the updating procedures is completed.



7. Click OK when the updating procedure is completed.



1-2 Update BIOS by Using Gigabyte GSM CLI Utility

Download the BIOS file from the Website

1. Download the BIOS file. Detail instructions, go to: 1-1-1 Download the BIOS file from the Website.
2. Get the IP address on the POST screen. Or go to 1-1-1 Gigabyte Management Console Network Configuration for Dynamic IP configuration.



NOTE!

- If you are using Oracle Java make sure your Java version is latest version and javaws and ipmitool.
- For other details, please refer to **server_utility_cli_2.1.xx\2.x.xx\docs\GbtReadme.txt** introduction.

Download the Utility file from the Website

1. Download GSM CLI utility package(.zip) from www.gigabyte.com.
2. Search your model.
3. Go to the product page.
4. Select **Support**.

OVERVIEW SPECIFICATIONS **SUPPORT** RESOURCES BUY

5. Select **Utility**.

Downloads

Driver

BIOS

Utility

Firmware

Manual

6. Click Download to save the package file.

GSM CLI

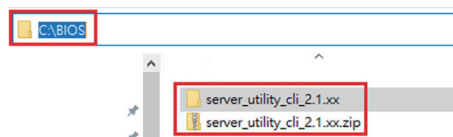
2.1.59

111.38 MB

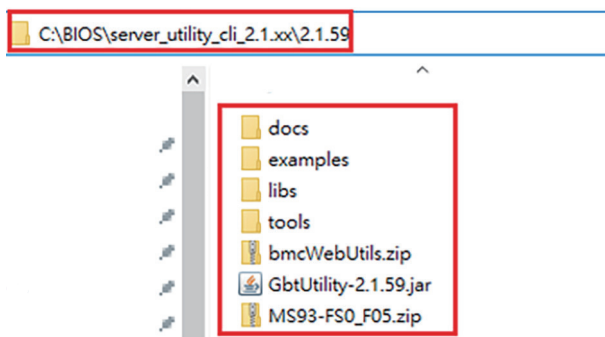
2022/11/07



7. Save GSM CLI package in the following path: C:\BIOS of client system.
8. Extract the GSM CLI package file in C:\BIOS.



9. Save the BIOS package file in the following path: C:\BIOS\server_utility_cli_2.1.xx\2.1.59 of client system.



1-2-1 Update BIOS

Execute GSM CLI utility with update command to update BIOS1:

1. Power off the client system, usage command:

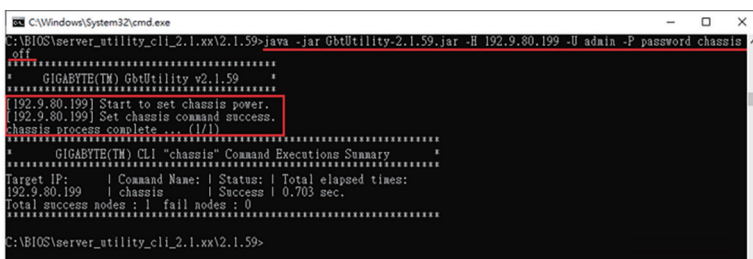
java -jar GbtUtility-\${project.version}.jar -H <BMC IP> -U <Account> -P <Password> chassis off

<BMC IP>: Target system BMC IP

<Account>: Target system BMC username

<Password>: Target system BMC password

2. After entering the power off command, press the keyboard "enter" to shutdown client system.



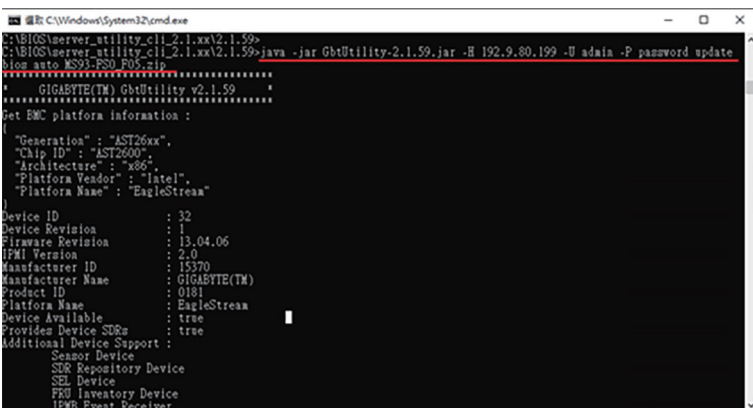
```
C:\Windows\System32\cmd.exe
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password chassis off
*****
GIGABYTE(TM) GbtUtility v2.1.59
*****
192.9.80.199] Start to set chassis power.
192.9.80.199] Set chassis command success.
Chassis process complete ... (1/1)
*****
GIGABYTE(TM) CLI "chassis" Command Executions Summary
*****
Target IP:      Command Name:  Status:  Total elapsed times:
192.9.80.199   | chassis      | Success | 0.703 sec.
Total success nodes : 1 fail nodes : 0
*****
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>
```

3. Update BIOS1 usage command:

java -jar GbtUtility-\${project.version}.jar -H <BMC IP> -U <Account> -P <Password> update bios auto <FW package>

<FW package> : BIOS update firmware packages. (Only support *.zip file)

4. After entering the update BIOS1 command, press the keyboard "enter" to start the update. And wait update status to complete.



```
C:\Windows\System32\cmd.exe
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password update bios auto MS91-F30 F05.zip
*****
GIGABYTE(TM) GbtUtility v2.1.59
*****
Get BMC platform information :
*****
"Generation" : "AST26xx".
"Chip ID" : "AST2600".
"Architecture" : "x86".
"Platform Vendor" : "Intel".
"Platform Name" : "EagleStream"
*****
Device ID : 32
Device Revision : 1
Firmware Revision : 13.04.06
IPMI Version : 2.0
Manufacturer ID : 15370
Manufacturer Name : GIGABYTE(TM)
Product ID : 0181
Platform Name : EagleStream
Device Available : true
Provides Device SDRs : true
Additional Device Support :
Sensor Device
SDR Repository Device
SEL Device
FRU Inventory Device
IPMI Event Receiver
```

```

C:\Windows\System32\cmd.exe
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password update
*****
GIGABYTE(TM) GbtUtility v2.1.59
*****
Get BMC platform information :
{
  "Generation": "AST26xx",
  "Chip ID": "AST2600",
  "Architecture": "x86",
  "Platform Vendor": "Intel",
  "Platform Name": "EagleStream"
}
Device ID : 32
Device Revision : 1
Firmware Revision : 13.04.06
IPMI Version : 2.0
Manufacturer ID : 15370
Manufacturer Name : GIGABYTE(TM)
Product ID : 0181
Platform Name : EagleStream
Device Available : true
Provides Device SDRs : true
Additional Device Support :
  Sensor Device
  SDR Repository Device
  SEL Device
  FRU Inventory Device
  IPMI Event Receiver

```

5. After update BIOS1 complete and success, set target system to power on. Usage command:

java -jar GbtUtility- $\{project.version\}$.jar -H <BMC IP> -U <Account> -P <Password> chassis on

```

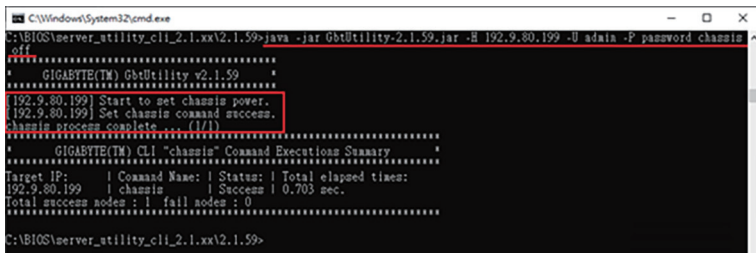
C:\Windows\System32\cmd.exe
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password chassis
on
*****
GIGABYTE(TM) GbtUtility v2.1.59
*****
[192.9.80.199] Start to set chassis power.
[192.9.80.199] Set chassis command success.
chassis process complete ... (1/1)
*****
GIGABYTE(TM) CLI "chassis" Command Executions Summary
*****
Target IP:      Command Name:  Status:  Total elapsed times:
192.9.80.199   chassis      Success  0.709 sec.
Total success nodes : 1 fail nodes : 0
*****
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>

```

1-2-2 Update BIOS1 and BIOS2 (Backup image)

1. Download the BIOS file. Detail instructions, go to: 1-1-1 Download the BIOS file from the Website.
2. Execute GSM CLI utility with update command to update BIOS1 and BIOS2 (Backup image)
3. Set target system to power off, usage command:

java -jar GbtUtility-\${project.version}.jar -H <BMC IP> -U <Account> -P <Password> chassis off



```
C:\Windows\System32\cmd.exe
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password chassis off
=====
* GIGABYTE(TM) GbtUtility v2.1.59 *
=====
192.9.80.199 Start to set chassis power.
192.9.80.199 Set chassis command success.
chassis process complete. (1/1)
=====
* GIGABYTE(TM) CLI "chassis" Command Executions Summary *
=====
Target IP:      Command Name:  Status:  Total elapsed times:
192.9.80.199    chassis         Success  0.703 sec.
Total success nodes : 1 fail nodes : 0
=====
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>
```

4. Update BIOS1 and BIOS2(Backup image) usage command:

java -jar GbtUtility-\${project.version}.jar -H <BMC IP> -U <Account> -P <Password> update bios backupimg <FW package>.



NOTE!

- If update backup image fails or damaged, it may cause system crash. Please process carefully.

5. After entering the update BIOS1 and BIOS2 command, press the keyboard "enter" to start the update. And wait update status to complete.

```
C:\Windows\System32\cmd.exe
C:\WINDOWS\system32\cmd.exe>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password update
*****
*          GIGABYTE(TM) GbtUtility v2.1.59          *
*****
Get BMC platform information :
*****
"Generation" : "AST26xx".
"Chip ID" : "AST2600".
"Architecture" : "x86".
"Platform Vendor" : "Intel".
"Platform Name" : "EagleStream"

Device ID      : 32
Device Revision : 1
Firmware Revision : 13.04.06
UEFI Version   : 2.0
Manufacturer ID : 15370
Manufacturer Name : GIGABYTE(TM)
Product ID     : 0181
Platform Name   : EagleStream
Device Available : true
Provides Device SDRs : true
Additional Device Support :
Sensor Device
SER Repository Device
SEL Device
PEU Inventory Device
IPMB Event Receiver
IPMB Event Generator
```



NOTE!

- The update process failure may cause system crash, if agree please proceed.

[illegible]

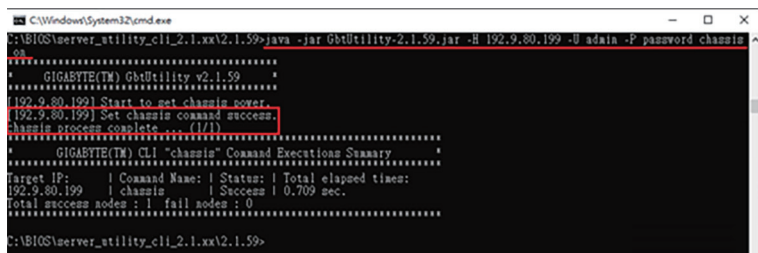
6. Press **Y** to continue.

[illegible]

7. After update complete and success, set client system to power on.

Usage command:

`java -jar GbtUtility- $\{project.version\}$ .jar -H <BMC IP> -U <Account> -P <Password> chassis on`



```
C:\Windows\System32\cmd.exe
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>java -jar GbtUtility-2.1.59.jar -H 192.9.80.199 -U admin -P password chassis on
=====
*      GIGABYTE(TM) GbtUtility v2.1.59      *
=====
192.9.80.199 Start to set chassis power.
192.9.80.199 Set chassis command success.
chassis process complete ... (1/1)
=====
*      GIGABYTE(TM) CLI "chassis" Command Executions Summary      *
=====
Target IP:      Command Name:  Status:  Total elapsed times:
192.9.80.199    chassis        Success  0.709 sec.
Total success nodes : 1 fail nodes : 0
=====
C:\BIOS\server_utility_cli_2.1.xx\2.1.59>
```