

How to use AUUpdate Utility under H12 series motherboard

AUUpdate utility is Supermicro IPMI FIRMWARE UPDATE UTILITY under EFI SHELL.

Environment required is “EFI SHELL”.

The key features in this utility are as below. Please follow below instruction to get the function

1. Update IPMI firmware
2. Dump IPMI firmware
3. Restore IPMI configuration
4. Backup IPMI configuration

Update IPMI firmware

- A. Please boot to EFI shell,
- B. Run the command “AUUpdate.efi” to show the utility information as below.

```
FS0:\> AUUpdate.efi
*****
* ATEN Technology, Inc. *
*****
* FUNCTION : IPMI FIRMWARE UPDATE UTILITY *
* VERSION : 2.08 *
* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****
FS0:\> _
```

- C. Run command “AUUpdate.efi -f [file_name].bin”. For more option, please refer to Utility information for your own case. You can expect to get as below if successfully upgrade.

```

* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\AUUpdate.efi -f SMT_H12AST2500_64M_SIGNED_300.bin -r
Check if this file is valid.....
If the FW update fails,PLEASE TRY AGAIN
Load part 0 261844 bytes, [Ok]
Load part 1 15081472 bytes, [Ok]
Load part 2 2139536 bytes, [Ok]
Load part 3 8511520 bytes, [Ok]
Load part 4 262144 bytes, [Ok]

If the FW update fails. PLEASE WAIT 5 MINS AND REMOVE THE AC...
new firmware is updating...100%
DXE--Console Out Device Connect..
FS0:\>

```

Dump IPMI firmware

A. Run command “AUUpdate.efi -d [file_name].bin” to dump file as below.

```

* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\> AUUpdate.efi -d dumpBMCfw.bin
*****
* ATEN Technology, Inc. *
*****
* FUNCTION : IPMI FIRMWARE UPDATE UTILITY *
* VERSION : 2.08 *
* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\AUUpdate.efi -d dumpBMCfw.bin
Phase1:Wait for BMC !!

```

B. It takes time to dump firmware, please be patient. You can expect to get as below when dump complete

```

*      -f [restore.bin] Restore configurations      *
*      -d [backup.bin] Backup configurations      *
*****
FS0:\> AUUpdate.efi -d dumpBMCfw.bin
*****
* ATEN Technology, Inc.                          *
*****
* FUNCTION   : IPMI FIRMWARE UPDATE UTILITY      *
* VERSION    : 2.08                              *
* BUILD DATE : Mar 15 2019                       *
* USAGE      :                                   *
*      (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
*      (2)Dump FIRMWARE   : AdUpdate.exe -d filename                *
*      (3)Restore CONFIG  : AdUpdate.exe -c -f filename.bin        *
*      (4)Backup CONFIG   : AdUpdate.exe -c -d filename.bin        *
*****
* OPTION                                           *
*      -r Preserve Configuration(default is Preserve) *
*      n:No Preserve, reset to factory default settings *
*      y:Preserve, keep all of the settings           *
*      -c IPMI configuration backup/restore          *
*      -f [restore.bin] Restore configurations        *
*      -d [backup.bin] Backup configurations          *
*****
FS0:\>AUUpdate.efi -d dumpBMCfw.bin
Phase1:Wait for BMC !!
Phase2:Receive the flash data.....
length=0x4000000
FS0:\> _

```

C. Check if file dump saved successfully.

```

*      -d [backup.bin] Backup configurations      *
*****
FS0:\>AUUpdate.efi -d dumpBMCfw.bin
Phase1:Wait for BMC !!
Phase2:Receive the flash data.....
length=0x4000000
FS0:\> ls
Directory of: FS0:\
06/27/2019  14:18 <DIR>          16,384  .disk
06/27/2019  14:18 <DIR>          16,384  boot
06/27/2019  14:18 <DIR>          16,384  dists
06/27/2019  14:18 <DIR>          16,384  doc
06/27/2019  14:18 <DIR>          16,384  EFI
06/27/2019  14:18 <DIR>          16,384  install
06/27/2019  14:19 <DIR>          16,384  isolinux
06/27/2019  14:19              182,756  md5sum.txt
06/27/2019  14:19 <DIR>          16,384  pics
06/27/2019  14:19 <DIR>          16,384  pool
06/27/2019  14:20 <DIR>          16,384  preseed
06/27/2019  14:20              240  README.diskdefines
06/27/2019  14:20              0  ubuntu
06/27/2019  14:20              94  syslinux.cfg
06/27/2019  14:20              248  autorun.inf
06/27/2019  14:20           34,494  autorun.ico
03/15/2019  10:25           171,648  AUUpdate.efi
06/13/2019  16:07           67,108,864  SMT_H12AST2500_64M_SIGNED_300.bin
06/28/2019  02:56           67,108,864  dumpBMCfw.bin
          9 File(s) 134,607,208 bytes
          10 Dir(s)
FS0:\> _

```

Restore IPMI configuration

A. Run command “AUUpate.efi -c -f [file_name].bin” as below.

```

FS0:\> AUUpdate.efi -c -f BMCCFGBK.bin
*****
* ATEN Technology, Inc. *
*****
* FUNCTION : IPMI FIRMWARE UPDATE UTILITY *
* VERSION : 2.08 *
* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\AUUpdate.efi -c -f BMCCFGBK.bin
=== IPMI Configuration Restore Mode ===
Data preparing.....
Total data length : 17920
Bytes Processed data length 1 0x11ee Bytes Transmit Progress : 25 %

```

B. You can expect to get as below once complete.

```

FS0:\> AUUpdate.efi -c -f BMCCFGBK.bin
*****
* ATEN Technology, Inc. *
*****
* FUNCTION : IPMI FIRMWARE UPDATE UTILITY *
* VERSION : 2.08 *
* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\AUUpdate.efi -c -f BMCCFGBK.bin
=== IPMI Configuration Restore Mode ===
Data preparing.....
Total data length : 17920
Done. Please wait at least 1 minute to restore configurations. 100 %
FS0:\> _

```

Backup IPMI configuration

A. Run command “AUUpate.efi –c –d [file_name].bin” as below.

```
FS0:\> AUUpdate.efi -c -d BMCCFGBK.bin
*****
* ATEN Technology, Inc. *
*****
* FUNCTION : IPMI FIRMWARE UPDATE UTILITY *
* VERSION : 2.08 *
* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\AUUpdate.efi -c -d BMCCFGBK.bin
=== IPMI Configuration Backup Mode ===
Data preparing.....
Total data length : 17920
Bytes Processed data length : 0x3c78 Bytes Transmit Progress : 86 %
```

B. You can expect to get as below once complete.

```
FS0:\> AUUpdate.efi -c -d BMCCFGBK.bin
*****
* ATEN Technology, Inc. *
*****
* FUNCTION : IPMI FIRMWARE UPDATE UTILITY *
* VERSION : 2.08 *
* BUILD DATE : Mar 15 2019 *
* USAGE : *
* (1)Update FIRMWARE : AdUpdate.exe -f filename.bin [OPTION] *
* (2)Dump FIRMWARE : AdUpdate.exe -d filename *
* (3)Restore CONFIG : AdUpdate.exe -c -f filename.bin *
* (4)Backup CONFIG : AdUpdate.exe -c -d filename.bin *
*****
* OPTION *
* -r Preserve Configuration(default is Preserve) *
* n:No Preserve, reset to factory default settings *
* y:Preserve, keep all of the settings *
* -c IPMI configuration backup/restore *
* -f [restore.bin] Restore configurations *
* -d [backup.bin] Backup configurations *
*****

FS0:\AUUpdate.efi -c -d BMCCFGBK.bin
=== IPMI Configuration Backup Mode ===
Data preparing.....
Total data length : 17920
Done. Processed data length : 0x4600 Bytes Transmit Progress : 100 %
FS0:\> _
```