

# 1

## Firmware Upgrade Procedure

---

The document provides the instruction for reliable upgrading of the MMC firmware.

If a board requires new firmware, the firmware upgrade can be performed remotely from the chassis with the IPMB-based upgrade option, via a LAN connection to the self manager.

The SB-AMC-HD product keeps a redundant copy of the firmware in the FLASH. It is possible to initiate the upgrade while the MCC is on-line and operating normally. Upgrades are reliable—a failure in the download (error or interruption) does not disturb the MMC's ability to continue using the "old" firmware nor its ability to restart the download process.

The upgrades are reversible. The MMC automatically fails back to the previous firmware if there is a problem when first running new code.

The firmware can be upgrade using the 'upgradefw' utility that is provided on the documentation CD. This utility is provided in both Linux and Windows format. Copy the upgradefw.exe file from the CD to the directory on the system that you will be upgrading from.

Command Syntax:

### Upgradefw

Usage: **upgradefw** *<options>* *upgrade\_image*

Options:

<b>-s</b> <i>device[:options]</i>	upgrade over a serial line (not supported)
<b>-n</b> <i>hostname[:port],targetaddr</i>	upgrade over LAN/IPMB
<b>-m</b> <i>mmc_address</i>	target MMC address
<b>-r</b>	restore from the backup copy
<b>-R</b>	get backup version
<b>-q</b>	quiet mode

### EXAMPLE:

The following example shows the command performing firmware upgrade from a desktop PC over LAN/IPMB using the shelf manager and AMC Carrier IPMC as a LAN-to-IPMB bridge:

```
$ ./upgradefw -n 192.168.1.137,84 -m 72 upgrade.img
```

In this example, 192.168.1.137 is the address of the shelf manager, 84 is the address of the IPMB, and 72 is the local IPMB address of the SB-AMC-HD module.