

Milestone Systems

Milestone Husky™ M series NVR BIOS upgrade RN01-011

Quick guide



BIOS upgrade introduction

This document explains how to perform a BIOS upgrade on your Milestone Husky unit using the RN01-011 BIOS upgrade software released by Milestone. This BIOS upgrade applies to:

- Milestone Husky M30
- Milestone Husky M50
- Milestone Husky M500A
- Milestone Husky M550A






To upgrade, you need the Windows® administrator password and, if configured, the BIOS password. You cannot record video during the upgrade. Do not turn off your unit or unplug the power cord during the upgrade. If power is interrupted during the upgrade, the system will be damaged and the unit becomes unusable.

Prepare the upgrade files and connect your USB key

This BIOS upgrade is done with a USB key. To prepare the USB key before you start the upgrade:

1. Create a bootable USB key running DOS.
2. Extract the BIOS upgrade folder and save it on your USB key.
3. Verify that the following files are in the BIOS upgrade folder on your USB key:

Name	Type
 AFUDOS	Application
 FBIOS	Windows Batch File
 RN01-011.rom	ROM File

The USB key is ready for the BIOS upgrade.

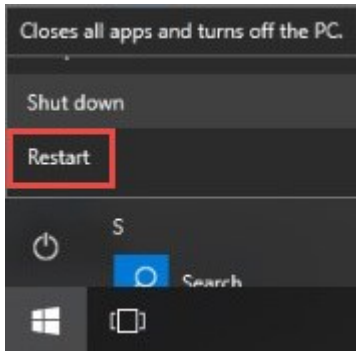
4. Connect the bootable USB key to your Milestone Husky unit.

Determine the BIOS version

BIOS upgrade is a sensitive process. Make sure that the power plug is firmly plugged in before you start the upgrade.

To see the current BIOS version of your unit:

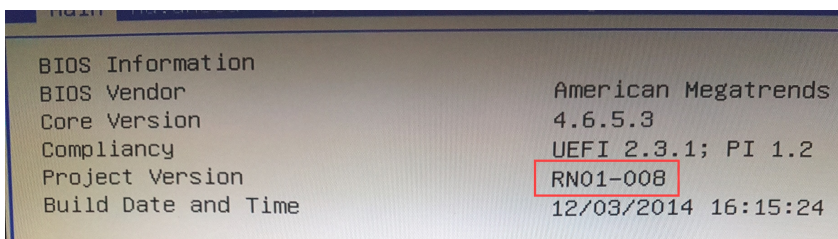
1. If your unit is powered off, turn it on.
2. On a running unit, click **Windows Start** and select **Restart**.



3. The first screen with a BIOS message appears. The current BIOS version is visible.



4. Press **Delete** or **Escape** on your keyboard to enter the BIOS setup. If required, fill in the password for BIOS access.
5. When you enter the BIOS setup utility, the current BIOS version is also visible in the **Main** window.



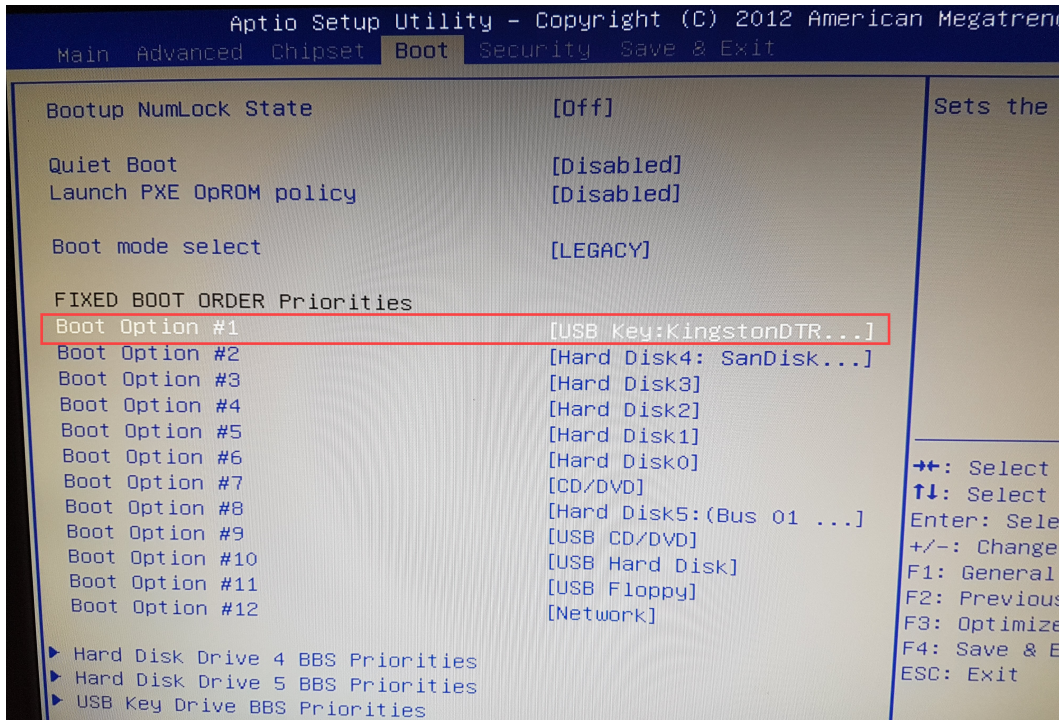
Prepare the BIOS settings before upgrade

To set up the BIOS for the upgrade:

1. Select **Boot** in the BIOS menu.
2. In the **FIXED BOOT ORDER Priorities**, select **USB Key** as **Boot Option #1**.

If the BIOS does not detect the USB key as a boot option:

1. Unplug the power cord and wait 30 seconds.
2. Check that the USB key is connected.
3. Plug in the power cord. The unit boots.
4. Press **Delete** or **Escape** on your keyboard to enter the BIOS setup. If required, fill in the password for BIOS access.
5. Select **Boot** in the BIOS menu and check if the USB key is available in the boot order list.



3. Navigate to **Save & Exit** in the BIOS menu and select **Save Changes and Reset**.
4. Press **Enter** and select **Yes** to save the configuration and reset.

The unit restarts.

Perform the BIOS upgrade



Before you start the upgrade, connect your USB key containing the BIOS upgrade files to the Husky unit.

1. Your Milestone Husky unit will now boot in DOS mode from the USB key. In this example, the version is RN01-010. Your screen will show RN01-011.

```
Volume in drive C is BIOS HUSKY
Volume Serial Number is 5CEE-C3C7

Directory of C:\RN01-010

.                <DIR>      03-28-18  12:58p
..               <DIR>      03-28-18  12:58p
AFUDOS           EXE        167,152   11-12-12  4:12p
FBIOS            BAT         117       03-28-18  5:57p
RN01-010         RAR       1,791,621 03-28-18 12:50p
RN01-010         ROM       2,621,440 03-28-18  2:05p
                4 file(s)    4,580,330 bytes
                2 dir(s)    13,716 Mega bytes free
C:\RN01-010>
```

2. To start the BIOS upgrade process, in the command line after `C:\RN01-011>` type `fbios` and press **Enter**.



Do not power off your unit, unplug the power cord, or touch the mouse and keyboard during the upgrade. If power is interrupted during the upgrade, the system will be damaged and the unit becomes unusable.

3. If a warning appears, press **y** to start the BIOS upgrade. The update takes around two minutes, and in the case of a successful upgrade, the Command Prompt messages match the messages seen below.

```
RN01-010 RAR       1,791,621 03-28-18 12:50p
RN01-010 ROM       2,621,440 03-28-18  2:05p
                4 file(s)    4,580,330 bytes
                2 dir(s)    13,716 Mega bytes free
C:\>cd rn01-010
C:\RN01-010>fbios
C:\RN01-010>REM afudos rn01-002.bin /p /b /n
C:\RN01-010>REM to save SMBIO/DMI, please add parameter /R
C:\RN01-010>afudos RN01-010.rom /p /b /n /R
+-----+
|          AMI Firmware Update Utility  v3.04.00          |
|          Copyright (C)2012 American Megatrends Inc. All Rights Reserve|
+-----+
Reading flash ..... done
- 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 NURAM Block ..... done
Updating NURAM Block ..... done
Verifying NURAM Block ..... done
C:\RN01-010>
```

Verify the upgraded BIOS version and load default settings

Verify the upgraded BIOS version

1. Unplug the power cord and wait 30 seconds.
2. Disconnect the USB key from your Milestone Husky unit.
3. Plug in the power cord. The unit boots.

If the BIOS version is **RN01-011**, your unit has been successfully upgraded.



Load default BIOS settings

1. Press **Delete** or **Escape** on your keyboard to enter the BIOS setup. If required, fill in the password for BIOS access.
2. Under **Save & Exit** in the BIOS menu, select **Restore Defaults**.
3. Press **Enter** and select **Yes** to load the default BIOS settings.

The unit restarts, and the BIOS upgrade is complete.

About Milestone

Milestone Systems is a leading provider of open platform video management software; technology that helps the world see how to ensure safety, protect assets and increase business efficiency. Milestone Systems enables an open platform community that drives collaboration and innovation in the development and use of network video technology, with reliable and scalable solutions that are proven in more than 150,000 sites worldwide. Founded in 1998, Milestone Systems is a stand-alone company in the Canon Group. For more information, visit <https://www.milestonesys.com/>.