Milestone Systems

Milestone Husky[™] X2 NVR BIOS upgrade Z970-005

Quick guide



BIOS upgrade introduction

This document explains how to perform a BIOS upgrade on your Milestone Husky unit using the Z970-005 BIOS upgrade software released by Milestone. This BIOS upgrade applies to Milestone Husky X2.



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.

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:

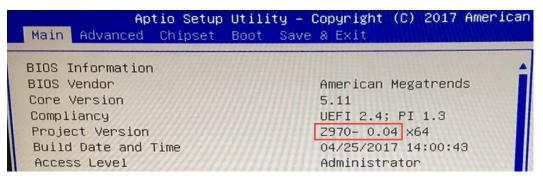
- 1. If your unit is powered off, turn it on.
- 2. On a running unit, click Windows Start and select Restart.



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



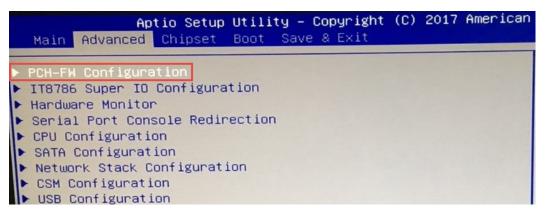
- 4. Press **Delete** or **Escape** on your keyboard to enter the BIOS setup. If required, fill in the password for BIOS access.
- 5. When you enter the BIOS setup utility, the current BIOS version is also visible in the **Main** window.



Prepare the BIOS settings for the upgrade

To make the BIOS settings ready for the upgrade:

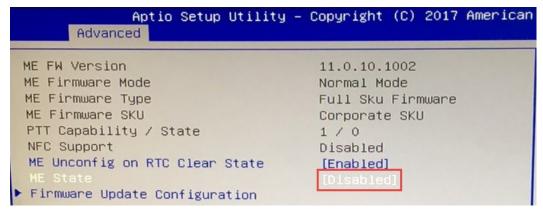
- 1. Select Advanced in the BIOS menu.
- 2. Select **PCH-FW Configuration** and press **Enter**.



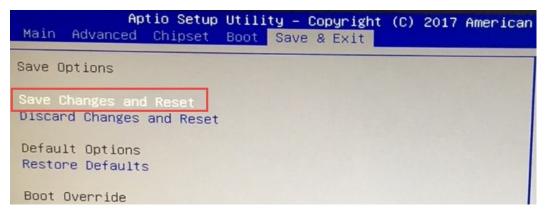
3. Select **ME State** and press **Enter** to change the setting.

Aptio Setup Utility - Advanced	Copyright (C) 2017 American
ME FW Version ME Firmware Mode ME Firmware Type ME Firmware SKU PTT Capability / State NFC Support ME Unconfig on RTC Clear State ME State Firmware Update Configuration	11.0.10.1002 Normal Mode Full Sku Firmware Corporate SKU 1 / 0 Disabled [Enabled] [Enabled]

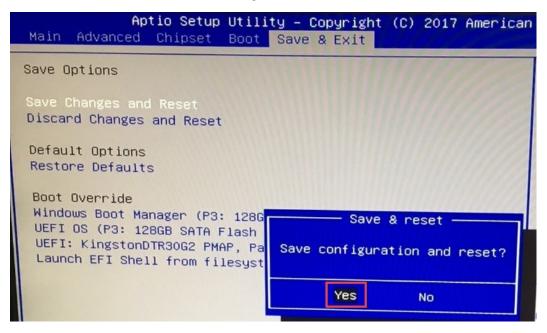
4. Change the setting to **Disabled**.



5. Navigate to Save & Exit in the BIOS menu and select Save Changes and Reset.



6. Press Enter and select Yes to save the configuration and reset.

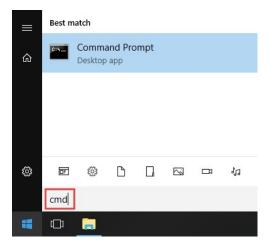


The unit restarts.

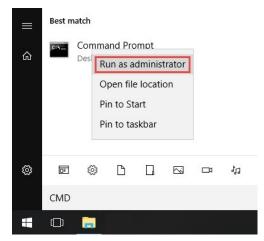
Upgrade the BIOS

Remember to save and extract the BIOS upgrade folder on your unit before you start the upgrade.

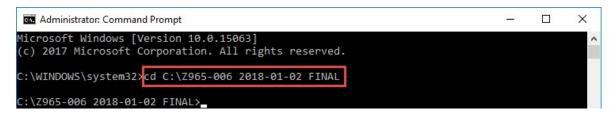
1. To start the BIOS upgrade process, click **Windows Start** and type **cmd** to open a Windows Command Prompt.



2. Right-click Command Prompt and select Run as administrator.



Navigate to the folder where you have unpacked the Z970-005 BIOS upgrade files by using the cd (change directory) command. In this guide, the example of the extracted BIOS upgrade file location and folder name is: cd C:\Z965-006 2018-01-02 FINAL. Replace the text in this example with your location and folder name and press Enter.



4. To run the upgrade utility, type afuwinx64 Z970-005.rom /p /b /n /x /r /me and press Enter.

Administrator: Command Prompt - afuwinx64 Z965-006.rom /p /b /n /x /r /me	<u></u>	×
Microsoft Windows [Version 10.0.15063] (c) 2017 Microsoft Corporation. All rights reserved.		^
C:\WINDOWS\system32>cd C:\Z965-006 2018-01-02 FINAL		
C:\Z965-006 2018-01-02 FINAL>afuwinx64 Z965-006.rom /p /b /n /x /r /me	+	
AMI Firmware Update Utility v5.09.04.1503 Copyright (C)2017 American Megatrends Inc. All Rights Reserved.		
Reading flash done - ME Data Size checking . ok - FFS checksums ok - Check RomLayout Changed. WARNING !! ROM file information does not match system BIOS. Do you continue to flash ? (Y/N)		~

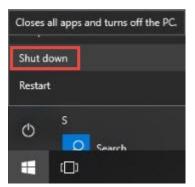


Do not power off your unit, unplug the power cord, or touch the mouse and keyboard during the upgrade. If power is interrupted during the upgrade, the system will be damaged and the unit becomes unusable.

5. If a warning appears, press **y** to start the BIOS upgrade process. The update process takes around two minutes. If the upgrade is successful, the Command Prompt messages match the messages seen below.

Administrator: Command Prompt - afuwinx64 Z965-006.rom /p /b /n /x /r /me	203	×
Microsoft Windows [Version 10.0.15063] (c) 2017 Microsoft Corporation. All rights reserved.		^
C:\WINDOWS\system32>cd C:\Z965-006 2018-01-02 FINAL		
C:\Z965-006 2018-01-02 FINAL>afuwinx64 Z965-006.rom /p /b /n /x /r /me		
AMI Firmware Update Utility v5.09.04.1503 Copyright (C)2017 American Megatrends Inc. All Rights Reserved.		
<pre>Reading flash done - ME Data Size checking . ok - FFS checksums ok - Check RomLayout Changed. WARNING !! ROM file information does not match system BIOS. Do you continue to flash ? (Y/N)y Erasing Boot Block done Updating Boot Block done Verifying Boot Block done Erasing Main Block done Updating Main Block done Updating Main Block done Erasing Main Block done Updating Main Block done Verifying Main Block done Verifying Main Block done Updating NVRAM Block done Updating NVRAM Block done Updating NVRAM Block done - Update success for DSC - Update success for ME \ WARNING : System must power-off to have the changes take effect!</pre>		
C:\Z965-006 2018-01-02 FINAL>		~

6. To power off your unit, click **Windows Start** and select **Shut down**.



Verify the BIOS version after upgrade

To verify that the BIOS version was successfully upgraded:

- 1. Unplug the power cord and wait for 30 seconds.
- 2. Plug in the power cord. The unit boots.
- 3. If the BIOS version is Z970-005, your unit has been successfully upgraded.



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/.