

## Knowledge Base Article

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### How to use the MX7000 fan update utility script

#### Summary

Mx7k\_update.exe is an update utility that will modify the configuration of an Amulet Hotkey CoreModule to disable the secondary fans. This KBA describes how to run this executable file.

**Note:** The update utility is a Python script that has been passed through py2exe to generate a Windows 10 executable for convenience. If you require the Python version, contact [support@amulethotkey.com](mailto:support@amulethotkey.com).

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#### Before you begin

Before you run the utility, do the steps that follow:

Step	Action
1	Contact <a href="#">Technical Support</a> to obtain the zip file with the MX7000 update utility.

## Use the MX7000 fan update utility script

There are three additional flags that can be used with the command:

Flag	Action
-f update firmware	<i>Updates the firmware</i>
-l get logs	<p><i>Log files are extracted for any units detected and stored in the same directory in files with the following file name:</i></p> <p style="text-align: center;"><b>Mx7k_XXXXXXX.log</b></p> <p><i>where xxxxx is the unit serial number.</i></p>
-c update configs	<i>Updates configuration</i>

**Note:** If ONE of these flags is specified in the command line, then ONLY THAT action occurs. However, if none of the flags are specified, then ALL actions are executed.

Step	Action
1	Extract the contents of the zip file onto a Windows 10 machine.
2	Open a DOS command window.
3	Navigate to the directory that contains the <b>.exe</b> file.
4	<p>The script requires the login details for the MX700 chassis Dell EMC OpenManage racadm SSH interface to access the CoreModule.</p> <p>The IP address <b>must</b> be supplied when the script is run. However, you can supply the username and password either as command line parameters or when prompted by the script.</p> <p><b>Note:</b> In the latter case the password will be obfuscated for additional security.</p> <p>Either:</p> <p>Enter the command, including the IP address of the MX7000 chassis manager:</p> <pre><b>mx7k_update -I &lt;IP_ADDR&gt;</b></pre> <p>Or:</p> <pre><b>mx7k_update -I &lt;IP_ADDR&gt; -u &lt;USER_NAME&gt; -p &lt;CHASSIS_PASSWORD&gt;</b></pre>

Step	Action
5	<p>The following sequence of events happens:</p> <ul style="list-style-type: none"> <li>-Information regarding modules detected and progress of the script is displayed.</li> <li>-The unit is checked for faults.</li> <li>-If no other flag is specified, then all actions are completed</li> <li>-If one of the flags has been specified ( -f, -l or -c) then that action is also completed.</li> </ul>
6	<p>When the update utility completes it reports <b>Success</b> or <b>Update Failed</b>.</p> <p>The utility will append run details to a file called <i>update.log</i></p>

### Submit information to Amulet Hotkey for evaluation

Step	Action
1	<p>If permitted in your environment it would be helpful if the log files generated could be returned to <a href="mailto:support@amulethot.com">support@amulethot.com</a> for analysis.</p>

### Example script output

The following output is from an example use of the script.

```
c:\repos\FW-DXZ4-0010_mx7k_bsm_5.0.3\update_script\mx7k_update_1.0.0-GA>mx7k_update.exe -h
```

```
-----
Starting AHK MX7K update script version 1.0.0-GA...
```

```
usage: mx7k_update.exe [-h] [-i IPADDR] [-u USER] [-p PASSWORD] [-t TIMEOUT_S]
```

optional arguments:

```
-h, --help            show this help message and exit
```

```
-i IPADDR, --ipaddr IPADDR
                        MX7K MM IP address
```

```
-u USER, --user USER  MX7K MM username
```

```
-p PASSWORD, --password PASSWORD
                        MX7K MM Password
```

```
-t TIMEOUT_S, --timeout_s TIMEOUT_S
```

```
Timeout for SSH / serial commands in s
```

```
c:\test>mx7k_update.exe -i 192.168.202.82 -u labtest
```

```
-----  
Starting AHK MX7K update script version 1.0.2-GA...
```

```
IP address supplied, attempting SSH to MX7K...
```

```
Please enter password:
```

```
Opened SSH link to MM
```

```
Checking for modules in B1, B2 slots...
```

```
Found modules in ['Switch-4']
```

```
Attempting to connect to a pBSM in Switch-4...
```

```
Connection to Switch-4 successful, attempting to log into pBSM...
```

```
Storing log dump in mx7k_1000298.log
```

```
Stored 32 lines of clog
```

```
Stored 62 lines of clog
```

```
Stored 92 lines of clog
```

```
Stored 122 lines of clog
```

```
Stored 152 lines of clog
```

```
Stored 182 lines of clog
```

```
Reading current configuration...
```

```
Variant          : MX7K-P
```

```
Serial Number    : 1000298
```

```
Fan mode (left)  : Off
```

```
Fan mode (right) : Off
```

```
Fan error (left) : Ignore
```

```
Fan error (right): Ignore
```

```
Fans inlet limit : 25 oC
```

```
Fans gpu limit   : 70 oC
```

```
Fan saver period : 7 days
```

```
Fan saver run time : 10 mins
```

```
fault status
```

```
0d 00:18:27.100> 00 Overheat Major No
```

```
0d 00:18:27.100> 02 Memory Allocate Failed Minor No
```

```
0d 00:18:27.100> 03 FReD Power Fault Minor No
```

```
0d 00:18:27.100> 04 FReD Heartbeat Timeout Minor No
```

```
0d 00:18:27.100> 05 Fan Test Failed (Left) Minor No
```

```
0d 00:18:27.100> 06 Fan Test Failed (Right) Minor No
```

```
0d 00:18:27.100> 07 Fan Failed (Left) Minor No
```

```

0d 00:18:27.100> 08 Fan Failed (Right)           Minor No
0d 00:18:27.100> 09 Sled 1 Fault                Minor No
0d 00:18:27.100> 10 Sled 2 Fault                Minor No
0d 00:18:27.100> 11 Sled 3 Fault                Minor No
0d 00:18:27.100> 12 Sled 4 Fault                Minor No
0d 00:18:27.100> 13 Sled 5 Fault                Minor No
0d 00:18:27.100> 14 Sled 6 Fault                Minor No
0d 00:18:27.100> 15 Sled 7 Fault                Minor No
0d 00:18:27.100> 16 Sled 8 Fault                Minor No

About to pass following command to pBSM [config fans left off]...
About to pass following command to pBSM [config fans right off]...
About to pass following command to pBSM [config fans left ignore]...
About to pass following command to pBSM [config fans right ignore]...
About to pass following command to pBSM [temp show 254]...
About to reset BSM...

Reading new configuration...

Variant           : MX7K-P
Serial Number     : 1000298
Fan mode (left)   : Off
Fan mode (right)  : Off
Fan error (left)  : Ignore
Fan error (right) : Ignore
Fans inlet limit  : 25 oC
Fans gpu limit    : 70 oC
Fan saver period  : 7 days
Fan saver run time : 10 mins

fault status

0d 00:00:10.200> 00 Overheat                     Major No
0d 00:00:10.200> 02 Memory Allocate Failed       Minor No
0d 00:00:10.200> 03 FReD Power Fault             Minor No
0d 00:00:10.200> 04 FReD Heartbeat Timeout       Minor No
0d 00:00:10.200> 05 Fan Test Failed (Left)       Minor No
0d 00:00:10.200> 06 Fan Test Failed (Right)      Minor No
0d 00:00:10.200> 07 Fan Failed (Left)           Minor No
0d 00:00:10.200> 08 Fan Failed (Right)          Minor No
0d 00:00:10.200> 09 Sled 1 Fault                 Minor No
0d 00:00:10.200> 10 Sled 2 Fault                 Minor No
0d 00:00:10.200> 11 Sled 3 Fault                 Minor No
0d 00:00:10.200> 12 Sled 4 Fault                 Minor No

```

```

0d 00:00:10.200> 13 Sled 5 Fault           Minor No
0d 00:00:10.200> 14 Sled 6 Fault           Minor No
0d 00:00:10.200> 15 Sled 7 Fault           Minor No
0d 00:00:10.200> 16 Sled 8 Fault           Minor No

```

```

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```

```
c:\test\>
```

### Contact us:

Support Center	Telephone	Email
North America	+1 (212) 269 9300	<a href="mailto:ussupport@amulethotkey.com">ussupport@amulethotkey.com</a> <a href="mailto:casupport@amulethotkey.com">casupport@amulethotkey.com</a>
Europe	+44 (0)20 7960 2400	<a href="mailto:eurosupport@amulethotkey.com">eurosupport@amulethotkey.com</a>
Asia Pacific	-	<a href="mailto:apsupport@amulethotkey.com">apsupport@amulethotkey.com</a>
Latin America	-	<a href="mailto:latamsupport@amulethotkey.com">latamsupport@amulethotkey.com</a>

### Resources

Visit our resources page, <https://resources.amulethotkey.com/resources>.