

# Advantech Product FAQ

## NMC-4006 NVM upgrade from V5.05 to V6.01

Applicable model list	NMC-4006series
Model name version	N/A
NVM Version	V5.05 (0x80002B39)

### Description:

1. Following step is upgrading NMC-4006 NVM from V5.05 (0x80002B39) to V6.01 (0x80003EDC) by Intel nvupdate utility (Linux Version).

### Flashing step:

1. We recommend customer to execute NMC-4006 NVM upgrading in CentOS 7(Kernel 3.10.0)
2. Please decompress NMC-4006\_V601.tar.gz in Linux and into NMC-4006\_V601 folder
3. Please key-in following command to check NMC-4006 NVM version,  
**Attention: "NMC-4006\_V601.tar.gz" only supports NVM V5.05 (0x80002B39) to V6.01 (0x80003EDC), if showing NVM version is not V5.05 (0x80002B39), please don't execute this utility.**

```
# ethtool -i "NMC-4006 network device name"
```

Ex:

```
# ethtool -i blap0
```

```
driver: i40e
```

```
version: 2.4.10
```

```
firmware-version: 5.05 0x80002b39 0.0.0
```

```
expansion-rom-version:
```

```
bus-info: 0000:1a:00.0
```

```
supports-statistics: yes
```

```
supports-test: yes
```

```
supports-eprom-access: yes
```

```
supports-register-dump: yes
```

```
supports-priv-flags: yes
```

4. Please key-in following command to check NMC-4006 NVM version, and refer following command instruction to execute nvupdate utility.

```
# ./nvupdate64e -l NMC-4006_6p01.log
```

```
Intel(R) Ethernet NVM Update Tool
NVMUpdate version 1.30.22.3
Copyright (C) 2013 - 2017 Intel Corporation.
```

```
WARNING: To avoid damage to your device, do not stop the update or reboot or power off the system
during this update.
```

```
Inventory in progress. Please wait [***-.....]
```

Num	Description	Ver.	DevId	S:B	Status
01)	Intel(R) I210 Gigabit Network Connection	3.37	1533	00:001	Update not available
02)	Intel(R) I210 Gigabit Network Connection	3.37	1533	00:002	Update not available
03)	Intel(R) Ethernet Converged Network Adapter XL710-Q2	5.05	1583	00:026	Update available
04)	Intel(R) Ethernet Connection X722 for 10GbE SFP+	3.29	37D3	00:064	Update not available

```
Options: Adapter Index List (comma-separated), [A]ll, e[X]it
```

```
Enter selection:03
```

```
Would you like to back up the NVM images? [Y]es/[N]o: Y
```

```
Update in progress. This operation may take several minutes.
```

```
[...+*****]
```

```
Power Cycle is required to complete the update process.
```

```
Tool execution completed with the following status: All operations completed successfully
```

```
Press any key to exit.
```

5. When utility reports “**All operations completed successfully**”, it means successful to upgrade NVM, please press any key to exit, and power off system.

6. If it reports error message during NVM flashing, please send “NMC-4006\_6p01.log” to Advantech NCG TSE team ([ss.chang@advantech.com.tw](mailto:ss.chang@advantech.com.tw)) .

7. Please power on system and login Linux, and key-in following command to check NMC-4006 NVN version again, the NVM version will show 6.01( 0x80003EDC) after upgrade NVM

```
# ethtool -i "NMC-4006 network device name"
```

Ex:

```
# ethtool -i blap0
```

```
driver: i40e
```

```
version: 2.4.10
```

```
firmware-version: 6.01 0x80003edc 0.0.0
```

```
expansion-rom-version:
```

```
bus-info: 0000:1a:00.0
```

```
supports-statistics: yes
```

```
supports-test: yes
```

```
supports-eprom-access: yes
```

```
supports-register-dump: yes
```

```
supports-priv-flags: yes
```