

# Advantech Product FAQ

## NMC-4005 NVM upgrade from V5.05/6.01 to V6.80

Applicable model list	NMC-4005 series
Model name version	N/A
NVM Version	V6.80 (0x80003498)

### **Attention please:**

**The nvmupdate utility only supports NMC's NVM upgraded, it doesn't support NVM downgraded.**

### **Description:**

1. Following step is upgrading NMC-4005 NVM from NVM 5.05 (0x80002b40) or NVM V6.01 (0x80003498) to V6.80 (0x80003498) by Intel nvmupdate utility (Linux Version).

### **Flashing step:**

1. We recommend customer to execute NMC-4005 NVM upgrading in CentOS 7(Kernel 3.10.0)
2. Please decompress NMC-4005\_V680.tgz in Linux and into NMC-4005\_V680 folder
3. Please key-in following command to check NMC-4005 NVM version,  
**Attention: "NMC-4005\_V680.tgz" only supports NVM 5.05 (0x80002b40) or NVM V6.01 (0x80003498) to V6.80 (0x8000486A), if showing NVM version is not NVM 5.05 (0x80002b40) or NVM V6.01 (0x80003498) , please don't execute this utility.**

```
# ethtool -i <NMC-4005 network device name>
```

Ex:

```
# ethtool -i enp94s0f0
```

```
driver: i40e
```

```
version: 2.4.10
```

```
firmware-version: 5.05 0x80002b40 0.0.0
```

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

```
bus-info: 0000:5e: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-4005 NVM version, and refer following command instruction to execute nvupdate utility.

```
# ./nvupdate64e -l NMC-4005_680.log
```

```
Intel(R) Ethernet NVM Update Tool
NVMUpdate version 1.32.20.30
Copyright (C) 2013 - 2018 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. (hex)	DevId	S:B	Status
01)	Intel(R) I210 Gigabit Network Connection	3.37(3.25)	1533	00:001	Update not available
02)	Intel(R) I210 Gigabit Network Connection	3.37(3.25)	1533	00:002	Update not available
03)	Intel(R) I210 Gigabit Network Connection	3.37(3.25)	1533	00:005	Update not available
04)	Intel(R) Ethernet Connection X722 for 10GbE SFP+	3.51(3.33)	37D3	00:028	Update not available
05)	Intel(R) Ethernet Controller X710 for 10GbE SFP+	5.05(5.05)	1572	00:094	Update available

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

Enter selection:05

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

Update in progress. This operation may take several minutes.

[...+\*\*\*\*\*]

Num	Description	Ver. (hex)	DevId	S:B	Status
01)	Intel(R) I210 Gigabit Network Connection	3.37(3.25)	1533	00:001	Update not available
02)	Intel(R) I210 Gigabit Network Connection	3.37(3.25)	1533	00:002	Update not available
03)	Intel(R) I210 Gigabit Network	3.37(3.25)	1533	00:005	Update not

Connection				available
04) Intel(R) Ethernet Connection X722 for 10GbE SFP+	3.51(3.33)	37D3	00:028	Update not available
05) Intel(R) Ethernet Controller X710 for 10GbE SFP+	6.128(6.80)	1572	00:094	Update successful

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-4005\_680.log” to Advantech NCG TSE team ([support@advantech-ncg.zendesk.com](mailto:support@advantech-ncg.zendesk.com)).
7. Please power on system and login Linux, key-in following command to check NMC-4005 NVN version again, the NVM version will show V6.80 (0x8000486A) after upgrade NVM

```
# ethtool -i <NMC-4005 network device name>
```

Ex:

```
# ethtool -i enp94s0f0
```

```
driver: i40e
```

```
version: 2.4.10
```

```
firmware-version: 6.80 0x8000486a 0.0.0
```

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

```
bus-info: 0000:5e:00.0
```

```
supports-statistics: yes
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```
supports-test: yes
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supports-eprom-access: yes
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```
supports-register-dump: yes
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```
supports-priv-flags: yes
```

