

# Advantech Product FAQ

## PCIE-2230(former name PCIE-2202E) NVM upgrade from V4.42 to V6.01

Applicable model list	PCE-2230 series
Model name version	N/A
NVM Version	V4.42 (0x800019AA)

### Description:

1. The API version of PCIE-2230 NVM 4.42 is 1.2 , API needs  $\geq 1.7$  to support reading SFP DDM function

```
[ 3.185557] i40e 0000:3b:00.0: fw 4.33.31377 api 1.2 nvm 4.42 0x800019aa 0.0.0
```

2. Following step is upgrading PCIE-2230 NVM from V4.42 (0x80019AA) to V6.01 (0x800035D5) by Intel nvmupdate utility (Linux Version).

### Flashing step:

1. We recommend customer execute PCIE-2230 NVM upgrading in CentOS 7(Kernel 3.10.0)
2. Please decompress X710\_PCIE2230.tar.gz in Linux and into X710\_PCIE2230 folder
3. Please key-in following command to check PCIE-2230 NVM version,

**Attention: "X710\_PCIE2230.tar.gz" only supports NVM V4.42 (0x80019AA) to V6.01 (0x800035D5), if showing NVM version is not V4.42 (0x80019AA), please don't execute this utility.**

```
# ethtool -i "PCIE-2230 network device name"
```

Ex:

```
# ethtool -i b01p0
```

```
driver: i40e
```

```
version: 2.4.10
```

```
firmware-version: 4.42 0x800019aa 0.0.0
```

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

```
bus-info: 0000:01:00.0
```

```
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 PCIE-2230 NVM version, and refer following command instruction to executes nvmupdate utility

```
# ./nvmupdate64e -l pcie2230_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) Ethernet Converged Network Adapter X710	4.66	1572	00:001	Update available
02)	Intel(R) Ethernet Connection X552 10 GbE SFP+	0.05	15AC	00:003	Update not available
03)	Intel(R) I350 Gigabit Network Connection	1.99	1521	00:006	Update not available
04)	Intel(R) I210 Gigabit Network Connection	3.32	1533	00:007	Update not available
05)	Intel(R) I210 Gigabit Network Connection	3.37	1533	00:008	Update not available

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

```
Enter selection: 1
```

```
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 "pcie2230\_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 PCIE-2230 NVM version again, the NVM version will show 6.01( 0x800035D5) after upgrade NVM

```
# ethtool -i "PCIE-2230 network device name"
```

Ex:

```
# ethtool -i b01p0
```

```
driver: i40e
```

```
version: 2.4.10
```

```
firmware-version: 6.01 0x800035d5 0.0.0
```

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

```
bus-info: 0000:01:00.0
```

```
supports-statistics: yes
```

```
supports-test: yes
```

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

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

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