Advantech Product FAQ

PCIE-1220PS NVM upgrade from V4.53 to V7.1

Applicable model list	PCIE-1220PS series
Model name version	N/A
NVM Version	V 4.53 (4.53 0x8000231d)

Attention please:

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

Description:

1. Following step is upgrading PCIE-1220PS NVM fromV4.53 (0x8000231D) to V7.10 (0x80007b60) by Intel nvmupdate utility (UEFI Version).

Flashing step:

- 1. Please decompress PCIE-1220PS.zip in USB, insert this USB in system and power on system.
- 2. We recommend customer to execute PCIE-1220PS NVM upgrading in BIOS UEFI shell, please login BIOS and choose "UEFI: Built-in EFI Shell" in Save & Exit

Aptio Setup Utility - Main Platform Hardware	Copyright (C) 2 Server Mgmt 1	2019 America Post & Boot	n Megatrend Security	ls, Inc. Save & Ex	it
Main Platform Hardware /	Server Mgmt 1	Post & Boot 	<pre><: Select S v: Select I nter: Selec /-: Change 1: General 2: Previous 3: Optimize 4: Save & E</pre>	Save & Ex Source Screen Stem Stem St Opt. Help Svalues St Optault Xit	:it
 		巴 	SC: EXIT		ا /



4. Please refer following commands to check PCIE-1220PS NVM files in BIOS UEFI shell, and we suggest system only insert a USB flash and PCIE-1220PS network card,

Shell> fs0 :	
FS0: \> cd PCIE-1220PS	
FS0: \PCIE-1220PS\> 1s	
Directory of: FS0:\PCIE-1220PS\	
02/15/2020 16:59 <dir> 8,192</dir>	
02/15/2020 16:59 <dir> 0</dir>	
01/15/2020 00:58 327	nvmupdate.cfg
01/23/2020 07:37 5,431,648	nvmupdate64e.efi
02/15/2020 16:55 4,194,304	PCIE-1220PS_XL710_X710_7p10_SFI_NCSI_CFGID7p2_Dual.bin
01/15/2020 00:54 357	PCIE-1220PS. log
4 File(s) 9,626,636 bytes	
2 Dir(s)	

Please refer following command instruct SO: \PCIE-1220PS\> nvmupdate64e. efi -1	ion to execute PCIE-1220PS.	nvmupdat	e utility in BIOS UEFI shell.
Intel(R) Ethernet NVM Update Tool			
WMUpdate version 1.34.22.6			
Copyright (C) 2013 - 2019 Intel Corpor	ation.		
VARNING. To avoid damage to your device	do not stor	the under	to or report or power off the sy
during this update.	, do not stop	, the upua	te of reboot of power off the sy.
Inventory in progress. Please wait [**	*]		
Num Description	Ver. (hex)	DevId S:	B Status
=== ==================================	3. 37 (3. 25)	= ==== == 1533 00	==== =================================
Connection			available
02) Intel(R) I210 Gigabit Network	3.37(3.25)	1533 00	:002 Update not
Connection			available
03) Intel(R) I210 Gigabit Network	3. 37 (3. 25)	1533 00	:005 Update not
Connection			available
04) Intel(R) Ethernet Connection X722	3. 51 (3. 33)	37D3 00	:028 Update not
for 10GbE SFP+			available
D5) Intel(R) Ethernet Controller X710	4.83(4.53)	1572 00	:059 Update
for 10GbE SFP+			available
)ptions: Adapter Index List (comma-sep	arated), [A]]	1, e[X]it	
Enter selection: 05 ←X710 device is i	tem 5, please	e choose 5	to flash X710 NVM
Would you like to back up the NVM imag	es? [Y]es/[N]	o: Y <-p1	ease choose Y to backup older N
Jpdate in progress. This operation may	take several	minutes.	
[+*****]			
Num Description	Ver.(hex)	DevId S:	B Status
=== ==================================	3. 37 (3. 25)	= ==== == 1533 00	==== =================================
Connection	. ,		available
2) Intel(R) I210 Gigabit Network	3.37(3.25)	1533 00	:002 Update not
Connection			available
03) Intel(R) I210 Gigabit Network	3.37(3.25)	1533 00	:005 Update not
Connection			available

04) Intel(R) Ethernet Connection X722 3.51(3.33) 37D3 00:02	8 Update not
(5) Intel (P) Ethernet Controller V710 7 16(7 10) 1572 00.05	
$f_{\text{orr}} = 10 \text{Ch} \text{E} \text{SED}_{\pm}$	
TOT TOGDE SFF+	Successiui
Power Cycle is required to complete the update process.	
Tool execution completed with the following status: All operati	ons completed successfully.
Press any key to exit.	
6. When utility reports "All operations completed successfully", it mea	ns successful to upgrade NVM,
please press any key to exit, and power off system (AC off).	
7. If it reports error message during NVM flashing, please send "PCIE-12	220PS.log" to Advantech NCG TSE
<pre>team (support@advantech-ncg.zendesk.com) .</pre>	
8. Please power on system and login Linux, key-in following command t	o check PCIE-1220PS NVM version
again, the NVM version will show V7.10 (0x80007b60) after upgrade	NVM
<pre># ethtool -i <pcie-1220ps device="" name="" network=""></pcie-1220ps></pre>	
Ex:	
# ethtool -i b3bp0	
driver: i40e	
version: 2.8.43	
firmware-version: 7.10 0x80007b60 0.0.0	
expansion-rom-version:	
bus-info: 0000:3b:00.0	
supports-statistics: yes	
supports-test: yes	
supports-eeprom-access: yes	
supports-register-dump: yes	
supports-priv-flags: yes	