



## BIOS Update Release Notes

**PRODUCTS: NUC8v5PNB, NUC8v5PNK, NUC8v5PNH, NUC8v7PNB,  
NUC8v7PNK, NUC8v7PNH**

**BIOS Version 0043 - PNWHL57v.0043.2021.0804.1007**

### About This Release:

- Date: Aug 04, 2021
- ROM Image Checksum: 75bfb4ec
- ME Firmware: 12.0.81.1753
- EC Firmware: 00.43.02
- EC2 Firmware: 2.23
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
  
- Supported Flash Devices:
  - Macronix MX25L25673 32MB
  
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000EA.pdb
  - M94806EC\_000000EA.pdb

### New Fixes/Features:

- Updated WMI requirements.
- Added a Pop-Up warning message to user when a transition BIOS is required before update can be done.
- Fixed vulnerability issue with EFI variable.
- Fixed Persistent Display Emulation not retaining settings after reboot.
- Updated EC Firmware to 43.02, EC2 Firmware: 2.23

### Note:

- **User is required to flash transition BIOS 0040 if on an earlier BIOS release. This is due to ME firmware BIOS layout change.**

**BIOS Version 0042 - PNWHL57v.0042.2021.0505.1525**

### About This Release:

- Date: May 05, 2021
- ROM Image Checksum: 854C2090
- ME Firmware: 12.0.81.1753
- EC Firmware: 00.40.00
- EC2 Firmware: 0.20
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV

\*Other names and brands may be claimed as the property of others.

- Supported Flash Devices:
  - Macronix MX25L25673 32MB
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000EA.pdb
  - M94806EC\_000000EA.pdb

**New Fixes/Features:**

- Updated ME Firmware to 12.0.81.1753
- Updated EC Firmware to 00.40.00
- Updated EC2 Firmware to 0.20
- Fixed issue where system would reboot when pressing power button in the BIOS setup menu.
- Fixed issue where system could not see logo when booting.
- Updated NTFS DXE driver when parsing NTFS file system partition.
- Fixed issue with virtual display on HDMI\_1 port (EC2), it did not get recognized.
- Fixed SMI handler vulnerabilities.
- Added protection code for unauthorized write at controllable address in SMRAM.
- Updated BIOS code for security fixes.

**Known Errata:**

- Due to the Intel® ME firmware update in BIOS version 0042, you can't downgrade to version 0041 or earlier.

<b>BIOS Version 0041 - PNWHL57v.0041.2020.1209.1853</b>
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**About This Release:**

- Date: Dec 09, 2020
- ROM Image Checksum: 86428ABA
- ME Firmware: 12.0.71.1681
- EC Firmware: 00.39.00
- EC2 Firmware: 0.19
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:
  - Macronix MX25L25673 32MB
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000DE.pdb
  - M94806EC\_000000DE.pdb

**New Fixes/Features:**

- Updated ME Firmware 12.0.71.1681
- Updated BIOS code for security fixes

**Known Errata:**

- **User is required to use transition BIOS PNv0040 before flashing to this release due to ME firmware BIOS layout change.**

<b>BIOS Version 0040 - PNWHL57v.0040.2020.1201.1821</b>
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**About This Release:**

- Date: Dec 01, 2020
- ROM Image Checksum: 87848842

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- ME Firmware: 12.0.45.1509
- EC Firmware: 00.39.00
- EC2 Firmware: 0.19
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:
  - Macronix MX25L25673 32MB
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000B8.mcb
  - M94806EC\_000000CA.mcb

**New Fixes/Features:**

- Updated EC Firmware to 00.39.00
- Updated EC2 Firmware to 00.19
- Fixed issue when updating ME Firmware.
- Updated BIOS code for security fixes.
- Added EC WDT (Watchdog Timer) function.
- Updated EC FW to 00.39.00.
- Fixed issue with Secure Erase (RSE) when using Intel Endpoint Management Assistant (EMA).
- Fixed issue when BIOS updated from 0034 to 0039 would show Intel AMT message.

<b>BIOS Version 0039 - PNWHL57v.0039.2020.0722.1503</b>
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**About This Release:**

- Date: Jul 22, 2020
- ROM Image Checksum: 190a970f
- ME Firmware: 12.0.45.1509
- EC Firmware: 00.36.00
- EC2 Firmware: 0.17
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:
  - Macronix MX25L25673 32MB
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000B8.mcb
  - M94806EC\_000000CA.mcb

**New Fixes/Features:**

- Updated EC Firmware to 00.36.00
- Updated EC2 Firmware to 0.17
- Added additional feature for VR current limit.
- Fixed BIOS watchdog counter not clearing.
- Disabled BIOS Self Recovery when Failsafe Watchdog is disabled
- Fixed issue with Thunderbolt Boot default setting. Changed from enabled to disabled by every BIOS flash method.

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**BIOS Version 0037 - PNWHL57v.0037.2020.0324.1433**

**About This Release:**

- Date: Mar 24, 2020
- ROM Image Checksum:846d
- ME Firmware: 12.0.45.1509
- EC Firmware: 00.34.00
- EC2 Firmware: 0.16
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
  
- Supported Flash Devices:
  - Macronix MX25L25673 32MB
  
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000B8.mcb
  - M94806EC\_000000CA.mcb

**New Fixes/Features:**

- Updated EC FW to 00.34.00
- Added "intelunite" string in SMBIOS type 11 for vPro products.
- Fixed issue where missing variable lock allowed write data to SMRAM.
- Fixed issue where USB 2.0 device in internal USB 3.0 port does not display remove icon.
- Added "Internal USB Port as exposed USB port" setup item.
- Fixed issue not showing Energy Star logo.
- Fixed issue where actual panel brightness would not change after adjust Screen Brightness item in BIOS Setup->Advanced->Flat Panel with eDP panel connect.
- Fixed issue where eDP option still lists in IGD Primary Video Port while no eDP Panel connect.
- Fixed issue where iSetupCfg did not generate full list of UQI values.

**BIOS Version 0032 - PNWHL57v.0032.2019.1213.1529**

**About This Release:**

- Date: Dec 13, 2019
- ROM Image Checksum:6d8f
- ME Firmware: 12.0.45.1509
- EC Firmware: 00.29.00
- EC2 Firmware: 0.14
- PD Firmware: 1.5.06
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
  - VBIOS: 9.2.1020
  - GOP: 9.0.1085
- AHCI Code: Based on AHCI\_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
  
- Supported Flash Devices:
  - Macronix MX25L25673 32MB
  
- Microcode Updates included in .BIN & .CAP Files:
  - MD0806EB\_000000B8.mcb

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**New Fixes/Features:**

- Initial production BIOS release

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