



BIOS Update Release Notes

**PRODUCTS: NUC7i3BNK, NUC7i3BNH, NUC7i5BNK, NUC7i5BNH,
NUC7i7BNH (Standard BIOS)**

BIOS Version 0050 - BNKBL357.86A.0050.2017.0816.2002

About This Release:

- Date: August 16, 2017
- ME Firmware: 11.6.27.3264
- EC Firmware: 8.05
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics:
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: (Revision) : 15.5.0.2875
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN:
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Security enhancements.
- Add the setup option "Allow UEFI Third Party Driver loaded".
- Due to a security enhancement, it will not be possible to go to any BIOS earlier than BIOS 0050.

BIOS Version 0049 - BNKBL357.86A.0049.2017.0724.1541

About This Release:

- Date: July 24, 2017
- ME Firmware: 11.6.27.3264
- EC Firmware: 8.05
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: (Revision) : 15.5.0.2875
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated Intel® Rapid Storage Technology (Intel RST®) driver to version 15.7.0.1014

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

BIOS Version 0048 - BNKBL357.86A.0048.2017.0704.1415

About This Release:

- Date: July 04, 2017
- ME Firmware: 11.6.27.3264
- EC Firmware: (Revision) : 8.05
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: (Revision) : 15.5.0.2875
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated GOP Driver to version 9.0.1066.
- Updated processor support.
- Updated the EC to version 8.5. The fixes include:
 - The fan would not run when Wake from LAN was used.
- Modified the Fast Boot and Intel® Optane™ Memory setup item behavior.
- Moved the placement of the Intel® Optane™ Memory warning from top left corner to the middle of the screen.

BIOS Version 0047 - BNKBL357.86A.0047.2017.0518.1824

About This Release:

- Date: May 18, 2017
- ME Firmware: 11.6.27.3264
- EC Firmware: (Revision) : 8.02
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1056
- SATA RAID Option ROM: (Revision) : 15.5.0.2875
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Micro Code update to fix Hyper-Threading issue
- Update FW_VERSION_GUID for Windows update
- Update EC to v8.2 to fix the LED effect when changing the always on mode to low brightness slow fade mode.
- Update ME to v11.6.27.3264

BIOS Version 0046 - BNKBL357.86A.0046.2017.0503.1744

About This Release:

- Date: May 03, 2017
- ME Firmware: 11.6.20.1221
- EC Firmware: (Revision) : 8.01
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1056
- SATA RAID Option ROM: (Revision) : 15.5.0.2875
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated EC FW to v8.01 to fix LED ring bugs when setting the colors to red, green or white.
- Added EC initialized BIOS recovery capability.
- Added feature "EC Requirement update for LED."
- Thermal management improvement.
- Corrected CEC help strings.
- Fixed issue where 'Install Intel Platform Key' in BIOS was greyed out when Secure Boot was enabled.

BIOS Version 0045 - BNKBL357.86A.0045.2017.0417.1728

About This Release:

- Date: April 17, 2017
- ME Firmware: 11.6.20.1221
- EC Firmware: (Revision) : 7.10
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1056
- SATA RAID Option ROM: (Revision) : 15.5.0.2875
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23
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New Fixes/Features:

- Updated EC to version 7.10
- Added a warning message when the SATA mode is changed.
- Fixed an issue where the mouse would lag in BIOS.
- Fixed an issue where the system wouldn't reboot after BIOS update.

About This Release:

- Date: March 03, 2017
- ME Firmware: 11.6.20.1221
- EC Firmware: (Revision) : 7.02
- Memory Reference Code: Based on 1.7.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1056
- SATA RAID Option ROM: (Revision) : 15.2.0.2740
- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated EC to v7.2
- Fixed issue where USB Type-C ACPI Validation would fail.
- Changed maximum fan speed to 85% in Balanced/Quiet mode and to 100% in Cooling/fixed mode.
- Fixed an issue that would cause the system to halt with error 0x96 during a reboot.
- Updated Kaby Lake motherboard label to: 5.12_VEB_1ATQ0028.
- Updated RC to v1.7.
- Updated TXE to 11.6.20.1221.
- Updated EC to v6.42.
- Fixed an issue where the PCIe/NVMe m.2 drive would disappear.
- Fixed an issue where memory with an incorrect Trfc parameter in the SPD would cause the screen to flicker.
- Fixed cooling page so that 'Fixed Duty cycle option' in under fix mode.
- Changed, GPIO_SKL_LP_GPP_B17, to high.
- Added an error message when trying to flash the BIOS to BN0036 and earlier.
- Added support for FAN PWM smoothing change.
- Fixed a boot block fault tolerance failure.

NOTE: Due to an ME update, there is no way to downgrade the BIOS after updating to BIOS 0036.

About This Release:

- Date: January 05, 2016
- ME Firmware: 11.6.10.1196
- EC Firmware: (Revision) : 6.11
- Framework Reference Code: Based on 1.3.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1056
- SATA RAID Option ROM: (Revision) : 15.2.0.2740

- SATA non-RAID Option ROM: (Revision) : 15.2.0.2754
- AHCI Code: Based on (Revision) : AHCI 13
- LAN
 - Option ROM: v0.1.10 PXE-2.1 (build 092)
 - UEFI Driver: 0.0.15
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated the CPU microcode
- Updated the embedded controller to version 6.11.
- Fixed a fan issue where the minimum temperature value would restore to default on reboot.
- Fixed an issue where system couldn't enter into the Legacy RAID configuration menu.
- Fixed an issue where items that couldn't be modified via Intel® Integrator Toolkit would be shown.
- Added an error message if trying to flash to BIOS BN0026 or earlier.
- Fixed a real time clock wake up issue.
- Fixed an issue where the microphone array device always kept a high volume.
- Fixed an issue where a CIR remote wouldn't wake up the NUC when in S5.
- Updated a Cooling page setting by adding a fan curve balance mode for the i5 and i7 NUCs.
- Fixed issue where the F7 BIOS menu a M.2 partition would show as an unknown device.
- Fixed an issue where clearing the TPM from the secure jump menu would load the BIOS default setting.
- Fixed a Realtek* controller (PCIE) SSID issue.
- Fixed an issue where the micro SD card reader lost its SSID after resuming from S3.
- Updated the Graphics Output Protocol (GOP) to version 1056.
- Updated the "Secondary Fan Off Temperature" default setting on the Cooling page.
- Fixed an issue where the SATA controller and onboard LAN controller would cause an IRQ conflict.
- Fixed an issue where a BIOS text item would be incorrectly displayed.
- Fixed an issue where the system would hang during shutdown when a USB Type-C device was attached.
- Fixed an issue where the F5 hot key for the Windows* recovery environment didn't work.

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| BIOS Version 0031 - BNKBL357.86A.0031.2016.1206.1405 |
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About This Release:

- Date: December 06, 2016
- ME Firmware: 11.6.0.1136
- Framework Reference Code: Based on 1.3.0.0
- Integrated Graphics
 - Option ROM: Build 1000 PC 10.46
 - UEFI Driver: 9.0.1053
- LAN
- Visual Bios: 2.2.23

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- EC FW rev : 5.7
- RST driver: 15.2.0.2740

New Fixes/Features:

- Initial production BIOS release

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