



BIOS Update Release Notes

**PRODUCTS: NUC8i7BEH, NUC8i5BEH, NUC8i5BEK, NUC8i3BEH,
NUC8i3BEK, NUC8i7BEHGA, NUC8i7BEKQA, NUC8i5BEHFA,
NUC8i5BEKPA, NUC8i3BEHFA**

BIOS Version 0074 - BECFL357.86A.0074.2019.0916.1548

About This Release:

- Date: September 16, 2019
- ROM Image Checksum: 0x4B57
- ME Firmware: 12.0.32.1421
- EC Firmware: v3.20
- Memory Reference Code: Based on 7.0.44.23
- Integrated Graphics
 - Option ROM: v1017
 - UEFI Driver: v9.0.1084
- SATA RAID Option ROM: 16.8.0.1000
- AHCI Code: Based on AHCI_17
- LAN Option ROM: PXE V0.1.1.3
- Visual BIOS: 2.2.23
- Supported Flash Devices:

WinBond	W25Q128JVS IQ	16MB (3.3V)
Macronix	MX25L12873FM2I-10G	16MB (3.3V)
GigaDevice	GD25B127DSIGR	16MB (3.3V)
- Microcode Updates included in .ROM File:
MC0806EA_0000009D_000000B4.pdb
- Additional Microcode Updates included only in .BIO File:

New Fixes/Features:

- Fixed issue where Watchdog feature is triggered during stress testing.
- Updated BIOS code for BIOS recovery with USB flash drive.
- Updated Chassis type default to 0x23.
- Updated BIOS code for security fixes.

BIOS Version 0073 - BECFL357.86A.0073.2019.0618.1409

About This Release:

- Date: June 18, 2019
- ROM Image Checksum: 0xF0F3
- ME Firmware: 12.0.32.1421
- EC Firmware: v3.20
- Memory Reference Code: Based on 7.0.44.23
- Integrated Graphics:
 - Option ROM: v1017
 - UEFI Driver: v9.0.1084
- SATA RAID Option ROM: 16.8.0.1000
- AHCI Code: Based on AHCI_17

- LAN Option ROM: PXE V0.1.1.3
- Visual BIOS: 2.2.23
- Supported Flash Devices:

WinBond	W25Q128JVS1Q	16MB (3.3V)
Macronix	MX25L12873FM2I-10G	16MB (3.3V)
GigaDevice	GD25B127DSIGR	16MB (3.3V)
- Microcode Updates included in .ROM & .BIO Files:
MC0806EA_0000009D_000000B4.pdb

New Fixes/Features:

- Fixed issue: Keeping monitor off when WOL from S3.
- Fixed issue: Thunderbolt Hot-plugging doesn't work when you use Legacy in the BIOS.
- Fixed issue: Blue USB 3.0 port have 5V every time when system AC power turn on/turn off.
- Updated Microcode to version MC0806EA_0000009D_000000B4.pdb.
- Remove the option "SW Control" on "RGB LED" and "Button LED" items.

BIOS Version 0071 - BECFL357.86A.0071.2019.0510.1505

About This Release:

- Date: May 10, 2019
- ME Firmware: 12.0.32.1421
- EC Firmware: v3.20
- PMC Firmware: 300.1.20.1023
- Framework Reference Code: Based on 7.0.44.23
- Memory Reference Code: Based on 7.0.44.23
- Integrated Graphics:
 - Option ROM: v1017
 - UEFI Driver: v9.0.1084
- SATA RAID Option ROM: 16.8.0.1000
- AHCI Code: Based on AHCI_17
- LAN Option ROM: PXE V0.1.1.3
- Visual BIOS: 2.2.23

New Fixes/Features:

- Fixed the issue that caused the SSD password to stop working after updating to BIOS 0064 or 0066.
- Fixed the issue where the fan settings wouldn't change when changing the "Fan Control Mode" to/from Balanced to Cool.
- Fixed the issue where wireless is disabled in the BIOS but still appears in Windows device manager.
- Changed RING LED to RGB LED in the BIOS to match the motherboard silkscreen and Technical Product Specification.
- Fixed the issue with the password prompt when BitLocker is enabled.
- Updated the BIOS code for security fixes.
- Updated Intel ME firmware to version 12.0.23.1311.
- Fixed issue when keyboard/mouse is connected to Type-C port.
- Removed option for 2048MB on IGD Aperture Size setting.
- Fixed issue where HDD password feature doesn't show in the setup menu with NVME PCIe drive.
- Updated S3 Indicator blinking behavior.
- Update Graphics Option ROM to version 1017.

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

- Updated Graphics UEFI driver to version 9.0.1084.
- Updated RAID Option ROM to version 16.8.0.1000.

BIOS Version 0051 - BECFL357.86A.0051.2018.1015.1513

About This Release:

- Date: October 15, 2018
- ME Firmware: 12.0.10.1128
- EC Firmware: v3.20
- PMC Firmware: 300.1.20.1019
- Framework Reference Code: Based on 7.0.37.50
- Integrated Graphics:
 - Option ROM: v1014
 - UEFI Driver: v9.0.1080
- LAN Option ROM: PXE v0.1.1.3
- Visual Bios: 2.2.23

New Fixes/Features:

- Fixed issue where the startup sound causes error in Device Manager.
- Updated Intel® ME firmware to version 1128.
- Updated PMC firmware to version 1019.
- Updated EC firmware to version 3.20 to fix LED behavior issue.
- Updated processor support.
- Fixed issue where remove storage password causes drive to disappear from boot manager.
- Updated watchdog event to be triggered by recovery.

BIOS Version 0048 - BECFL357.86A.0048.2018.0919.2013

About This Release:

- Date: September 19, 2018
- ME Firmware: 12.0.5.1117
- EC Firmware: v3.18
- PMC Firmware: v300.1.20.1015
- Framework Reference Code: Based on 7.0.37.50
- Integrated Graphics:
 - Option ROM: v1014
 - UEFI Driver: v9.0.1080
- LAN Option ROM: PXE v0.1.1.3
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated EC Firmware to version 3.18.
- Updated BIOS item Wake from Sleep State via CIR.
- Fixed issue where power LED had abnormal behavior when system enters S4 states in modern standby mode.
- Fixed issue where system can't enter Modern Standby if NVME device is installed.

BIOS Version 0041 - BECFL357.86A.0041.2018.0719.1931

About This Release:

- Date: July 19, 2018

- ME Firmware: 12.0.5.1117
- EC Firmware: v3.14
- PMC Firmware:v300.1.20.1015
- Framework Reference Code: Based on 7.0.37.50
- Integrated Graphics:
 - Option ROM: v1014
 - UEFI Driver: v9.0.1080
- LAN Option ROM: PXE V0.1.1.3
- Visual Bios: 2.2.23

New Fixes/Features:

- Initial production BIOS release

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