



BIOS Update Release Notes

PRODUCTS: NUC7I5DNKE, NUC7I5DNHE, NUC7I5DNBE, and NUC7I5DNKPC (Standard BIOS)

BIOS Version 0066 - DNKBLi5v.86A.0066.2019.0710.1158

About This Release:

- Date: July 10, 2019
- ROM Image Checksum: 0x0D8D, 0x9BDD (No FVME)
- ME Firmware: 11.8.65.3590
- EC Firmware: 0D.11.00
- Memory Reference Code: Based on 3.6.4
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
MACRONIX	MX25L12850F	16MB
GigaDevice	GD25B127D	16MB
- Microcode Updates included in .ROM File:
MC0806E9_000000B4.mcb
- Additional Microcode Updates included only in .BIO File:
MC0806E9_000000B4.mcb

New Fixes/Features:

- Fixed issue where there's no display when using eDP panel.
- Fixed issue where BIOS password isn't recognized.
- Modified BIOS code for security fix

BIOS Version 0065 - DNKBLi5v.86A.0065.2019.0611.1413

About This Release:

- Date: June 11, 2019
- ROM Image Checksum: 0x71EB, 0x003B (No FVME)
- ME Firmware: 11.8.65.3590
- EC Firmware: 0D.11.00
- Memory Reference Code: Based on 3.6.4
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092

- Visual BIOS: 2.2.25
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
MACRONIX	MX25L12850F	16MB
GigaDevice	GD25B127D	16MB
- Microcode Updates included in .ROM File:
 - MC0806E9_000000B4.mcb
- Additional Microcode Updates included only in .BIO File:
 - MC0806E9_000000B4.mcb

New Fixes/Features:

- Updated CPU microcode to MC0806E9_000000B4.
- Removed "SW Control" option from "Button LED" item in BIOS Setup.

BIOS Version 0064 - DNKBLi5v.86A.0064.2019.0523.1933

About This Release:

- Date: May 23, 2019
- ROM Image Checksum: 0xFA93, 0x88E3 (No FVME)
- ME Firmware: 11.8.65.3590
- EC Firmware: 0D.11.00
- Memory Reference Code: Based on 3.6.4
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Fixed TPM provision test failure.

BIOS Version 0063 - DNKBLi5v.86A.0063.2019.0503.1714

About This Release:

- Date: May 3, 2019
- ME Firmware: 11.8.65.3590
- EC Firmware: 0D.11.00
- Memory Reference Code: Based on 3.6.4
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Updated Intel ME firmware to version 11.8.65.3590.
- Modified BIOS code for security fixes.
- Changed enclosure type default to 0x23.

Known Errata:

- Due to the Intel® ME firmware update in BIOS version 0063, you can't downgrade to version 0062 or earlier.

BIOS Version 0062 - DNKBLi5v.86A.0062.2019.0304.1757**About This Release:**

- Date: March 4, 2019
- ME Firmware: 11.8.55.3510
- EC Firmware: 0D.11.00
- Memory Reference Code: Based on 3.6.4
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Updated processor microcode.
- Fixed issue where system doesn't resume from S3 properly.
- Fixed issue where there's no display when using eDP panel.
- Updated BIOS code for security fixes.

BIOS Version 0060 - DNKBLi5v.86A.0060.2018.1220.1536**About This Release:**

- Date: December 20, 2018
- ME Firmware: 11.8.50.3510
- EC Firmware: 0D.11.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Fixed issue where Hyperthreading can't be disabled using ITK.
- Fixed issue where disk encryption on Samsung eDrive doesn't work.
- Fixed issue where BIOS update process in Linux hangs on POST code with 48FE.
- Updated EC firmware to version 11.00.

BIOS Version 0059 - DNKBLi5v.86A.0059.2018.1129.1604**About This Release:**

- Date: November 29, 2018
- ME Firmware: 11.8.55.3510

- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Set PCIe ASPM function to Disabled.

BIOS Version 0058 - DNKBLi5v.86A.0058.2018.1115.1501

About This Release:

- Date: November 15, 2018
- ME Firmware: 11.8.55.3510
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Added NVME hard drive string ID.
- Modified BIOS embedded DP setting.

BIOS Version 0057 - DNKBLi5v.86A.0057.2018.1030.1638

About This Release:

- Date: October 30, 2018
- ME Firmware: 11.8.55.3510
- EC Firmware: 0D.10.00
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Added USB Host/Device mode switch item in USB Configuration page.
- Improved USB provision item.
- Fixed issue where Persistence Mode can't be set to default using ITK 6.1.8.

BIOS Version 0056 - DNKBLi5v.86A.0056.2018.1003.1621

About This Release:

- Date: October 03, 2018
- ME Firmware: 11.8.55.3510
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- BIOS functionality enhancements.

BIOS Version 0055 - DNKBLi5v.86A.0055.2018.0921.1432

About This Release:

- Date: September 21, 2018
- ME Firmware: 11.8.55.3510
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Fixed issue where system won't boot when NVME password is enabled then disabled on Intel E6100P SSD.

BIOS Version 0053 - DNKBLi5v.86A.0053.2018.0903.2245

About This Release:

- Date: September 3, 2018
- ROM Image Checksum: 0x6A9B, 0xFEE9 (No FVME)
- ME Firmware: 11.8.55.3510
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14

- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Fixed issue where the front panel LED blink code fails if memory is missing.
- Fixed issue with USB after updating BIOS from version 0044 to version 0052 via Jumper recovery.
- Updated Intel® ME firmware to version 11.8.55.3510.
- Updated BIOS Gigabit Ethernet binary to fix SSID issue.
- Due to the Intel® ME firmware update in BIOS version 0053, you can't downgrade to version 0052 or earlier.

BIOS Version 0052 - DNKBLi5v.86A.0052.2018.0808.1335

About This Release:

- Date: August 8, 2018
- ME Firmware: 11.8.50.3425
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Fixed the issue that would cause the system not to power on.
- Fixed the issue where M.2 PCIe SSDs would run at Generation 2 speeds.+
- Removed Intel Ready Mode.
- Fixed the issue that would cause the system to automatically wake from S3 when a device was connected to the 3.5mm jack.
- Fixed the issue that would cause the wireless and Bluetooth options to disappear after they were enabled.
- Fixed the issue where "Wake on USB from S5" wouldn't work ("USB S4/S5 Power must be turned on to see this option).

+ To fix the M.2 issue, the BIOS must be installed using the [jumper recovery method](#).

BIOS Version 0050 - DNKBLi5v.86A.0050.2018.0716.1547

About This Release:

- Date: July 16, 2018
- ME Firmware: 11.8.50.3425
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics:
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14

- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Added the feature to keep USB power during System Reset.
- Fixed the issue where BIOS recovery wouldn't work.
- Fixed the Wake on LAN from S3 issue where the monitor wouldn't wake up.

BIOS Version 0047 - DNKBLi5v.86A.0047.2018.0613.1739

About This Release:

- Date: June 13, 2018
- ME Firmware: 11.8.50.3425
- EC Firmware: 0D.10.00
- Memory Reference Code: Based on 3.2.0
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Enabled fanless mode.
- Updated the EC to version 10.00
- Fixed the issue where the splash screen logo would be askew in the OS recovery process.
- Improved the fault tolerance when using the recovery process.
- Updated CPU Microcode (Security Advisory-00115)
- Updated the TPM 2.0 security.
- Added TPM FW update functionality.

BIOS Version 0040 - DNKBLi5v.86A.0040.2018.0315.1451

About This Release:

- Date: March 15, 2018
- ME Firmware: 11.8.50.3425
- EC Firmware: 0D.09.00
- Integrated Graphics:
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Updated EC firmware version to 9.00.
- Implemented emulation option.
- Fixed USB provisioning setting.
- Fixed issue with disabling USB port in M.2 Wireless Slot for Bluetooth.

BIOS Version 0039 - DNKBLi5v.86A.0039.2018.0222.1752**About This Release:**

- Date: February 22, 2018
- ME Firmware: 11.8.50.3425
- EC Firmware: 0D.08.00
- Integrated Graphics:
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00088)

BIOS Version 0037 - DNKBLi5v.86A.0037.2018.0131.1029**About This Release:**

- Date: January 11, 2018
- ME Firmware: 11.8.50.3425
- EC Firmware: 0D.08.00
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- SATA non-RAID Option ROM: NA
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Fixed the issue with fan setting changes cannot be retained
- Fixed the issue auto wake from S4 when "wake system from S5" is enabled in bios
- Fixed an error with the OEM Activation Tool.
- Renamed the USB 3.0 setup options for clarity.
- Update EC version to 8.00.
- Update RC version to 3.0.0
- Added the BIOS setup option, "Screen Rotation Policy" to allow the screen orientation to be changed through the BIOS.
- Added the BIOS setup options, "PCIe Port in M.2 Wireless Slot (For WLAN)" and "USB Port in M.2 Wireless Slot (For Bluetooth)" to enable or disable Wireless and/or Bluetooth separately.
- Due to a security enhancement, it will not be possible to go to any BIOS earlier than BIOS DNi5v0037.

BIOS Version 0031 - DNKBLi5v.86A.0031.2017.1123.1612**About This Release:**

- Date: November 23, 2017
- ME Firmware: 11.8.50.3425

- EC Firmware: 0C.06.00
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Changed default setting for "IGD Flat Panel" to enabled.
- Changed the BIOS option "USB Host/Device Mode" to "USB 3.0 Port Header Configuration".
- Added the BIOS option to turn USB power off and on.
- Updated Management Engine Firmware to version: 11.8.50.3425 (Security Advisory-00086).
- Initial units of NUC7i5DNxE with the SA# -502 and -503 need to be updated to BIOS release 0031 or later in order for Intel Unite® to work.

BIOS Version 0026 - DNKBLi5v.86A.0026.2017.0915.2016

About This Release:

- Date: September 15, 2017
- ME Firmware: 11.7.0.3307
- EC Firmware: 0C.06.00
- MEBx Revision: 11.0.0.0010
- Integrated Graphics
 - Option ROM: 9.0.1051
 - UEFI Driver: 9.0.1066
- SATA RAID Option ROM: 15.7.0.3054
- AHCI Code: Based on AHCI_14
- LAN Option ROM: PXE 2.1 Build 092
- Visual BIOS: 2.2.25

New Fixes/Features:

- Initial production BIOS release

LEGAL INFORMATION

Information in this document is provided in connection with Intel Products and for the purpose of supporting Intel developed server/desktop boards and systems.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel Corporation may have patents or pending patent applications, trademarks, copyrights, or other intellectual property rights that relate to the presented subject matter. The furnishing of documents and other materials and information does not provide any license, express or implied, by estoppel or otherwise, to any such patents, trademarks, copyrights, or other intellectual property

rights. Intel products are not intended for use in medical, lifesaving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel is a trademark of Intel Corporation in the US and other countries.
Copyright (c) 2009 Intel Corporation.