



## BIOS Update Release Notes

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**PRODUCTS: NUC7I5DNKE, NUC7I5DNHE, NUC7I5DNBE, and NUC7I5DNKPC**

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**BIOS Version 0070 - DNKBLi5v.86A. 0070.2020.0924.0958**

### About This Release:

- Date: September 24, 2020
- ROM Image Checksum: 0x7F85, 0xDDBC (No FVME)
- ME Firmware: 11.8.80.3746
- EC Firmware: 0D.12.00
- 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
- 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
  
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
MACRONIX	MX25L12850F	16MB
GigaDevice	GD25B127D	16MB
- Microcode Updates included in .ROM File:  
MC0806E9\_000000D6.mcb
- Additional Microcode Updates included only in .BIO File:  
MC0806E9\_000000D6.mcb

### New Fixes/Features:

- Updated ME firmware to version 11.8.80.3746.
- Updated microcode to MC0806E9\_000000D6.
- Updated BIOS code for security fixes.

### Known Errata:

- Due to the Intel® ME firmware update in BIOS version 0070, you can't downgrade to version 0069 or earlier.

**BIOS Version 0069 - DNKBLi5v.86A.0069.2020.0610.1823**

### About This Release:

- Date: June 10, 2020
- ROM Image Checksum: 0xB584, 0x430B (No FVME)
- ME Firmware: 11.8.77.3664
- EC Firmware: 0D.12.00
- Memory Reference Code: Based on 3.6.4

- MEBx Revision: 11.0.0.0010
- Integrated Graphics:
  - Option ROM: 9.0.1051
  - UEFI Driver: 9.0.1095
- 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 & .BIO Files:
  - MC0806E9\_000000B4.mcb

**New Fixes/Features:**

- Updated ME Firmware to 11.8.77.3664.
- Fixed issue where custom BIOS from ITK fails to install when unattended BIOS configuration is set to never prompt.
- Updated BIOS code for security fixes.

**Known Errata:**

- Due to the Intel® ME firmware update in BIOS version 0069, you can't downgrade to version 0068 or earlier.

<b>BIOS Version 0068 - DNKBLi5v.86A.0068.2020.0312.1721</b>
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**About This Release:**

- Date: March 12, 2020
- ROM Image Checksum: 0x1961, 0xA6E8 (No FVME)
- ME Firmware: 11.8.70.3626
- EC Firmware: 0D.12.00
- 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 & .BIO Files:
  - MC0806E9\_000000B4.mcb

**New Fixes/Features:**

- Updated BIOS code for security fixes.

- Fixed issues regarding system reboot and system wake up.
- Fixed issue to "Set default Family Name" to "DN".
- Updated ME Firmware version to 11.8.70.3626.

**BIOS Version 0067 - DNKBLi5v.86A.0067.2019.1101.1757**

**About This Release:**

- Date: November 01, 2019
- ROM Image Checksum: 0xEAB6, 0x7906 (No FVME)
- ME Firmware: 11.8.65.3590
- EC Firmware: 0D.12.00
- 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 & .BIO Files:  
MC0806E9\_000000B4.mcb

**New Fixes/Features:**

- Fixed issue where "Hybrid BIOS USB recovery".
- Fixed issue where "Chassis value type changed during flash by BIO" for Microsoft request.
- Fixed issue where "SMBIOS Field update BIOS" for Microsoft request.
- Implemented security fixes
- Added support for "EFI ERASE BLOCK Protocol support for Android".
- Updated EC to version 12.00.

**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

<b>BIOS Version 0065 - DNKBLi5v.86A.0065.2019.0611.1413</b>
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**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.

<b>BIOS Version 0064 - DNKBLi5v.86A.0064.2019.0523.1933</b>
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**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](#).

<b>BIOS Version 0050 - DNKBLi5v.86A.0050.2018.0716.1547</b>
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**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.

<b>BIOS Version 0047 - DNKBLi5v.86A.0047.2018.0613.1739</b>
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**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:
  - o Option ROM: 9.0.1051
  - o 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.

<b>BIOS Version 0031 - DNKBLi5v.86A.0031.2017.1123.1612</b>
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#### **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.

**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

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