



BIOS Update Release Notes

PRODUCTS: NUC9VXQNX, NUC9V7QNX, NUC9VXQNB, NUC9V7QNB

BIOS Version 0065 - QNCFLX70.0065.2021.0720.1420

About This Release:

- Date: July 20, 2021
- ROM Image Checksum: 0x0821
- ME Firmware: 12.0.81.1753
- EC Firmware: 24.44
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV

- Supported Flash Devices:
 - WinBond W25Q128JVSIQ 16MB

- Microcode Updates included in .BIN & .CAP Files:
 - M22906EC_000000EA.pdb
 - M22906ED_000000EA.pdb

New Fixes/Features:

- **Updated:** ME Firmware updated to 24.44.
- **Fixed:** Issue where the system could not power on when IO ports are fully loaded.

BIOS Version 0063 - QNCFLX70.0063.2021.0526.1054

About This Release:

- Date: May 26, 2021
- ROM Image Checksum: 0xD0E4
- ME Firmware: 12.0.72.1757
- EC Firmware: 24.42
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV

- Supported Flash Devices:
 - WinBond W25Q128JVSIQ 16MB

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

- Microcode Updates included in .BIN & .CAP Files:
M22906EC_000000DE.pdb
M22906ED_000000DE.pdb

New Fixes/Features:

- Fixed issue when BIOS flashing from BIOS 0059 to 0061/0062 ME firmware did not update.

BIOS Version 0062 - QNCFLX70.0062.2021.0510.1827

About This Release:

- Date: May 05, 2021
- ROM Image Checksum: 0xCE7C
- ME Firmware: 12.0.72.1757
- EC Firmware: 24.42
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
---------	--------------	------
- Microcode Updates included in .BIN & .CAP Files:
M22906EC_000000DE.pdb
M22906ED_000000DE.pdb

New Fixes/Features:

- Updated EC Firmware to 24.42
- Fixed issue with flash update where ME firmware did not update.

BIOS Version 0061 - QNCFLX70.0061.2021.0304.1533

About This Release:

- Date: March 04, 2021
- ROM Image Checksum: 0xA691
- ME Firmware: 12.0.72.1757
- EC Firmware: 24.41
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - Option ROM: NA
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
---------	--------------	------

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

- Microcode Updates included in .BIN & .CAP Files:
M22906EC_000000DE.pdb
M22906ED_000000DE.pdb

New Fixes/Features:

- Updated ME Firmware to 12.0.72.1757
- Updated EC Firmware to 24.41
- Updated CPU Microcode to M22906EC_000000DE and M22906ED_000000DE
- Fixed issue with Power button LED failure.
- Fixed S0 LED Indicator blinking frequency (Hz) question is not grayed out when S0 Indicator Blinking Behavior is set to Solid.
- Fixed issue where CPU fan keeps running after CPU Fan question is set to under 50 degrees and the CPU temperature drops below 50 degrees.
- Fixed issue with NTFS DXE driver when parsing NTFS file system partition.

Known Errata:

- Rear Thunderbolt Type-C port 2 is not detected when both ports are occupied on AC Power OFF then ON.

BIOS Version 0059 - QNCFLX70.0059.2020.1130.2122

About This Release:

- Date: November 30, 2020
- ROM Image Checksum: 0x7DE7
- ME Firmware: 12.0.70.1652
- EC Firmware: 24.39
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - Option ROM: NA
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
---------	--------------	------
- Microcode Updates included in .BIN & .CAP Files:
M22906EC_000000D6.pdb
M22906ED_000000DE.pdb

New Fixes/Features:

- Updated EC Firmware to version 24.39
- Updated ME Firmware to version 12.0.70.1652
- Fixed issue with monitor display where red LED is on when set IGD Aperture Size to 2048MB with 4GB Memory installed.
- Fixed issue missing splash screen and BIOS menu during boot process.
- Fixed issue where "BIOS menu title in 'Advanced > Storage' did not change to "Storage".

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

- Fixed issue where "RAID mode can be selected when "Fast Boot" is Enable".
- Fixed booting issue when the RAID adapters are connected to the PCIe slot.
- Added code to identify Razer and QN/QX board.
- Fixed HLK failure: "USB Exposed Port test failure".
- Fixed HLK failure: "Single Computer Display Object test failure".
- Updated BIOS code for security fixes.
- Fixed the issue to center Skull logo in 4K monitors.
- Fixed issue where "WMI Interface tests fail."
- Fixed issue Power button LED.
- Fixed issue where BIOS Self Recovery must be disabled if Failsafe Watchdog is disabled.
- Fixed issue displaying item "HDMI/DisplayPort Audio".
- Fixed issue in iSetupCfg to remove "Legacy USB Support".

BIOS Version 0054 - QNCFLX70.0054.2020.0810.2227

About This Release:

- Date: August 10, 2020
- ROM Image Checksum: 0x1FF5
- ME Firmware: 12.0.67.1579
- EC Firmware: 24.36
- PMC Firmware: 300.2.11.1025
- Memory Reference Code: Based on 7.0.68.40
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - Option ROM: NA
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:

WinBond	W25Q128JVSIQ	16MB
---------	--------------	------
- Microcode Updates included in .BIN & .CAP Files:

M22906EC_000000D6.pdb
M22906ED_000000D6.pdb

New Fixes/Features:

- Fixed issue where Jumper Recovery Method would not update ME Firmware on first flash attempt.
- Improved BIOS code.
- Fixed issue when "IGD Minimum Memory" was set to 512MB ,1GB and 1.5GB, 4096MB system would not boot to OS.
- Updated EC Firmware to 24.36
- Updated ME Firmware to 12.0.67.1579
- Updated PMC Firmware to 300.2.11.1025
- Improved SMBIOS capabilities.
- Updated BIOS code for security fixes.
- Fixed issue where Windows Update prompt with an abnormal TPM update box.

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

- Disabled Thunderbolt Boot set enabled as default.
- Fixed issue in BIOS Setup->Boot.
- Fixed issue where the description for TCG Storage device security Configuration was incorrect.
- Removed ME version blocker in flash update process.
- Fixed issue where failsafe watchdog did not active and loaded memory default after unexpected adjustment with memory setting.
- Fixed issue where BIOS watchdog counts were not cleared.

- Implemented QR code feature for Aptio V BIOS.
- Fixed issue where system abnormal wake from S3, S4 and S5 in sleep state.
- Implemented Over-Clocking feature.
- Fixed issue with iSetupCfg implementation.
- Hide "Legacy Boot" option and Setup strings.
- Fixed issue where BIOS recovery failed when Top Swap had been triggered.
- Improved WMI function
 - 1) Added software control of Single-Color LED Brightness
 - 2) Added software control of Dual-Color LED Brightness
- Implemented PsysPL2 control feature.
- Fixed issue with TXT callback capability.

Known Errata:

- Due to the Intel® ME firmware update in BIOS version 0054, you can't downgrade to version 0034 or earlier.

BIOS Version 0034 - QNCFLX70.0034.2019.1125.1424

About This Release:

- Date: January 7, 2020
- ROM Image Checksum: 0xED2D
- ME Firmware: 12.0.40.1433
- EC Firmware: 24.33
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - Option ROM: NA
 - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- AHCI Code: Based on AHCI_19
- LAN Option ROM: 0.5
- Visual BIOS: Intel AptioV
- Supported Flash Devices:
 - WinBond W25Q128JVSIQ 16MB
- Microcode Updates included in .BIN & .CAP Files:
 - M22906EC_000000BE.mcb
 - M22906ED_000000BE.mcb

New Fixes/Features:

- Initial production BIOS release

LEGAL INFORMATION

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

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, life saving, 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) 2021 Intel Corporation.

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