BIOS Update Release Notes

# PRODUCTS: NUC9i5QNX, NUC9i7QNX, NUC9i9QNX

**BIOS Version 0074 - QXCFL579.0074.2023.1106.1445**

**About This Release:**

- Date: Nov 06, 2023
- ROM Image Checksum: 0xA815E627
- EC Firmware: 24.44
- ME Firmware: 12.0.92.2145
- PMC Firmware: 300.2.11.1025
- i219 NVM: 0.5
- CRB Label: 1AUOK048
- Boot Guard ACM: 1.8.0
- BIOS Guard: Based on BiosGuard_039
- Silicon Initialization Code: Based on 7.0.68.40
- Memory Reference Code: 0,7,1,110
- Integrated Graphics:
    - UEFI Driver: 9.0.1086
- Intel RST Pre-OS:
    - VMD UEFI Driver: 17.5.0.4055
- 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:
    - M22906EA_000000F6.pdb
    - M22906ED_000000FC.pdb

**Feature Changes/Updates/Fixes:**

- Fixed issue where TOCTOU vulnerability in “SmiFlash”.
- Fixed issue where EDK2 vulnerabilities.
- Fixed issue where LogoFAIL vulnerability.
- Fixed issue where Intel NUC TOCTOU vulnerability.
- Fixed issue where Buffer Overflow vulnerability in “SmmLockBox”.
- Fixed issue where EDK2 PEI-Phase Denial of Service vulnerability.
- Updated CPU Microcode to M22906EA_000000F6.pdb and M22906ED_000000FC.pdb.

**Known Errata:**

- Due to BIOS QX0073 having an updated Secure Boot DBX, Bitlocker Recovery will occur after reloading the Secure Boot keys in BIOS Setup.

## BIOS Version 0073 - QXCFL579.0073.2023.0816.1824

**About This Release:**

- Date: August 16, 2023
- ROM Image Checksum: 0xA8112254
- EC Firmware: 24.44
- ME Firmware: 12.0.92.2145
- PMC Firmware: 300.2.11.1025
- I219 NVM: 0.5
- CRB Label: 1AUOK048
- Boot Guard ACM: 1.8.0
- BIOS Guard: Based on BiosGuard_039
- Silicon Initialization Code: Based on 7.0.68.40
- Memory Reference Code: 0,7,1,110
- Integrated Graphics:
    - UEFI Driver: 9.0.1086
- Intel RST Pre-OS:
    - VMD UEFI Driver: 17.5.0.4055
- 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_000000F4.pdb
    - M22906ED_000000FA.pdb

**Feature Changes/Updates/Fixes**:

- Fixed issue where A Stack Buffer Overflow vulnerability can lead to arbitrary code execution in DXE driver on select Intel platforms.
- Fixed issue where OpenSSL vulnerabilities.
- Fixed issue where Incorrect Bound Check vulnerability.
- Updated PlatformLang Timeout Variable Access.
- Updated SmiFlash related solution implementation.
- Updated SmiFlash related solutions including TOCTOU SmiFlash_v2.
- Updated OpenSSL Policy Constraints.
- Fixed issue where Heap Buffer Overflow in "TCG2MeasurePeImage".
- Updated BlackLotus-SecureBoot DBX Update.
- Updated Harden SMM Write Flash.
- Updated IPU 2023.2 Update.
- Updated IPU 2023.3 Update.
- Fixed issue where Intel NUC TOCTOU vulnerability-2.
- Updated CPU Microcode to M22906EA_000000F4.pdb and M22906ED_000000FA.pdb.
- Updated Building Process optimize_avoid UQI duplicated.
- Updated Support for iFlashV 5.13.00.2106 (X64) / 5.13.00.2106 (Ia32).

**Known Errata:**

- Due to BIOS QX0073 having an updated Secure Boot DBX, Bitlocker Recovery will occur after reloading the Secure Boot keys in BIOS Setup.

## BIOS Version 0072 - QXCFL579.0072.2023.0418.1511

**About This Release:**

- Date: April 18, 2023
- ROM Image Checksum: 0xA82A1DE6
- EC Firmware: 24.44
- ME Firmware: 12.0.92.2145
- PMC Firmware: 300.2.11.1025
- I219 NVM: 0.5
- CRB Label: 1AUOK048
- Boot Guard ACM: 1.8.0
- Bios Guard: Based on BiosGuard_039
- Silicon Initialization Code: Based on 7.0.68.40
- Memory Reference Code: 0,7,1,110
- Integrated Graphics:
  - UEFI Driver: 9.0.1086
- Intel RST Pre-OS:
  - VMD UEFI Driver: 17.5.0.4055
- 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_000000F0.pdb
  - M22906ED_000000F4.pdb

**Feature Change/Update:**

- Fixed issue where GRUB Bootloader Vulnerability recheck.
- Fixed issue where UEFI Variable access vulnerability in select Intel NUC BIOSs.
- Fixed issue where UEFI Variable access vulnerability.
- Fixed issue where SmmEntryPoint Underflow Vulnerability.
- Fixed issue where UEFI Boot Variables Access.
- Fixed issue where SDIO_DEV_CONFIGURATION SetVariable NVRAM corruption.
- Fixed issue where OS Kernel-level malware may cause information disclosure vulnerability.
- Fixed issue where NVMe SSD performance lower than expected.

## BIOS Version 0071 - QXCFL579.0071.2022.1130.1331

**About This Release:**

- Date: December 30, 2022
- ROM Image Checksum: 0xCEA0
- EC Firmware: 24.44
- ME Firmware: 12.0.92.2145
- PMC Firmware: 300.2.11.1025
- I219 NVM: 0.5
- CRB Label: 1AUOK048
- Boot Guard ACM: 1.8.0
- Bios Guard: Based on BiosGuard_039
- Silicon Initialization Code: Based on 7.0.68.40
- Memory Reference Code: 0,7,1,110
- Integrated Graphics:
    - UEFI Driver: 9.0.1086
- Intel RST Pre-OS:
    - VMD UEFI Driver: 17.5.0.4055
- 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_000000F0.pdb
    - M22906ED_000000F4.pdb

**New Fixes/Features:**

- Updated 2022 IPU update: 2022.1/2022.3.
- Fixed issue where Grub Bootloader Vulnerability.
- Fixed issue where Intel NUC information disclosure vulnerability.
- Fixed issue where Potential hack of EBU Flash DLL.
- Fixed issue where The arbitrary code execution in DXE driver.
- Fixed issue where SIO_DEV_STATUS_VAR_NAME Information Leakage_PTK2712#12.
- Fixed issue where Intel NUC vulnerability/info leak vulnerability.
- Updated CPU MCU to M22906ED_000000F4.pdb
- Fixed issue where Add StdDefaults into ProtectedNvVariableForRuntime eLink.
- Fixed issue where iSetupCfg tool shows the unexpected message, “WARNING: Duplicate questions”
- Fixed issue where Power limit value is not changed correspondingly via iSetupCfg tool override.

## BIOS Version 0070 - QXCFL579.0070.2022.0923.1401

**About This Release:**

- Date: September 23, 2022
- ROM Image Checksum: 0x18B4

- EC Firmware: 24.44
- ME Firmware: 12.0.92.2145
- PMC Firmware: 300.2.11.1025
- I219 NVM: 0.5
- CRB Label: 1AUOK048
- Boot Guard ACM: 1.4.0
- Bios Guard: Based on BiosGuard_039
- Silicon Initialization Code: Based on 7.0.68.40
- Memory Reference Code: 0,7,1,110
- Integrated Graphics:
    - UEFI Driver: 9.0.1086
- Intel RST Pre-OS:
    - VMD UEFI Driver: 17.5.0.4055
- 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_000000F0.pdb
    - M22906ED_000000F0.pdb

**New Fixes/Features:**

- Fixed issue where PEI memory corruption on server boards and on majority of NUCs.
- Fixed issue where Information disclosure vulnerability.
- Added BootPerformanceTable_pointer.
- Fixed issue where SMM memory corruption vulnerability in SMM driver on Intel platforms.
- Fixed issue where Privilege escalation vulnerability from kernel to SMM in multiple devices.
- Fixed issue where Stack overflow vulnerability in SMI handler.
- Fixed issue where S3 Resume Unprotected Ptr.
- Fixed issue where RSB Stuffing Mitigation for Speculative Execution Vulnerability.
- Fixed issue where TianoCore Security Issues.
- Updated ME FW to 12.0.92.2145 (v3).
- Updated Warning message optimization for BIOS MFG mode exit using F6 in BIOS Setup menu.
- Fixed issue where Patch of BIOS warning message for BIOS roll back flush block.
- Fixed issue where POST hotkey message does not display with Secure Boot enabled.
- Fixed issue where USB keyboard does not function in Config Mode and Power Button Menu if all USB ports are disabled.
- Fixed issue where Fix for ME minor version checking algorithm.
- Fixed issue where Flash Percentage does not display during BIOS capsule update.

## BIOS Version 0069 - QXCFL579.0069.2022.0616.0320

**About This Release:**

- Date: June 16, 2022
- ROM Image Checksum: bae8
- ME Firmware: 12.0.90.2072
- EC Firmware: 24.44
- Memory Reference Code: Based on 7.0.68.40
- 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:
  M22906EA_000000F0.pdb
  M22906ED_000000F0.pdb

**New Fixes/Features:**

- Updated ME FW to 12.0.90.2072.
- Updated CPU Microcode to M22906EA_000000F0, M22906EC_000000F0, M22906ED_000000F0.
- Added QR Code Display/Hide option in BIOS Setup.
- Updated 2021.2 IPU BIOS change.
- Fixed issue where Buffer Overflow in UEFI Firmware BIOS core.
- Fixed issue with Improper Access Control in BIOS vulnerability.
- Added Implement Config Mode load safe settings.
- Fixed issue where BIOS patch of Boot options overflow handling.
- Added Event Log code check under feature "Press F6 from BIOS setup to exit MFG mode".
- Added OpenSSL version check if updating to CryptoPkg_37.
- Added Enable TCO timer for Linux WDT function support.
- Added Patch for BIOS Warning message during BIOS WU.
- Fixed issue where BIOS RTC Reset feature causes BIOS recovery dead loop.
- Added “Press F6 to exit Manufacturing Mode” feature string update.

## BIOS Version 0068 - QXCFL579.0068.2022.0112.1151

**About This Release:**

- Date: Jan 12, 2022
- ROM Image Checksum: b358
- ME Firmware: 12.0.85.1869 v9.1
- EC Firmware: 24.44
- Memory Reference Code: Based on 7.0.68.40
- 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:
  M22906EA_000000EC.pdb
  M22906ED_000000EC.pdb

**New Fixes/Features:**

- Updated CPU Microcode (0xEC) for IPU 2021.2.
- Fixed issue where unauthorized modification of UEFI variables could disable the protect mechanism of SMM.
- Fixed text issue for “F6” where MFG Mode lock was not set in the middle of the screen.

## BIOS Version 0067 - QXCFL579.0067.2021.1224.1741

**About This Release:**

- Date: Dec 24, 2021
- ROM Image Checksum: a4c1
- ME Firmware: 12.0.85.1869 (v9.1)
- EC Firmware: 24.44
- Memory Reference Code: Based on 7.0.68.40
- 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:
    - M22906EA_000000EA.pdb
    - M22906ED_000000EA.pdb

**New Fixes/Features:**

- Updated ME Firmware to 12.0.85.1869

- Updated Help string of Primary display setting.
- Added “F6” functionality in BIOS Setup menu that forces BIOS MFG mode to lock.
- Fixed issues where unauthorized modification of UEFI variables could overwrite arbitrary SMRAM.
- Added pop up warning message to user when a transition BIOS is required to flash to the latest release.

## BIOS Version 0065 - QXCFL579.0065.2021.0720.1820

**About This Release:**

- Date: July 20, 2021
- ROM Image Checksum: 0x3605
- ME Firmware: 12.0.81.1753
- EC Firmware: 24.44
- Memory Reference Code: Based on 7.0.68.40
- 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:
  - M22906EA_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 - QXCFL579.0063.2021.0526.1105

**About This Release:**

- Date: May 26, 2021
- ROM Image Checksum: 0x8719
- ME Firmware: 12.0.72.1757
- EC Firmware: 24.42
- Memory Reference Code: Based on 7.0.68.40
- 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:

M22906EA_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 - QXCFL579.0062.2021.0511.1841

**About This Release:**

- Date: May 10, 2021
- ROM Image Checksum: 0x64CB
- ME Firmware: 12.0.72.1757
- EC Firmware: 24.42
- Memory Reference Code: Based on 7.0.68.40
- 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:
  M22906EA_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 - QXCFL579.0061.2021.0304.1546

**About This Release:**

- Date: March 04, 2021
- ROM Image Checksum: 0xF98A
- ME Firmware: 12.0.72.1757
- EC Firmware: 24.41
- Memory Reference Code: Based on 7.0.68.40
- 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:
  M22906EA_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 - QXCFL579.0059.2020.1201.1358

**About This Release:**

- Date: December 01, 2020
- ROM Image Checksum: 0xE15C
- ME Firmware: 12.0.70.1652
- EC Firmware: 24.39
- Memory Reference Code: Based on 7.0.68.40
- 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:
  M22906EA_000000DE.pdb
  M22906ED_000000DE.pdb

**New Fixes/Features:**

- Updated EC Firmware to version 24.39
- Updated ME Firmware to version 12.0.70.1652
- Fixed display issue and red LED is ON when set IGD Aperture Size to 2048MB with 4GB Memory installed.
- Fixed issue with No splash screen and BIOS menu during booting process.
- Fixed issue where "BIOS menu title in 'Advanced > Storage' did not change to "Storage"".
- Fixed issue where "RAID mode can be selected when Fast Boot feature is Enabled".
- Added code to identify Razer and QN/QX boards.
- 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 - QXCFL579.0054.2020.0811.1512

**About This Release:**

- Date: August 11, 2020
- ROM Image Checksum: 0x3A84
- 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
- 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:
  M22906EA_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.

## BIOS Version 0052 - QXCFL579.0052.2020.0717.1650

**About This Release:**

- Date: July 17, 2020
- ROM Image Checksum: 0xB96E
- ME Firmware: 12.0.67.1579
- EC Firmware: 24.36
- Memory Reference Code: Based on 7.0.68.40
- 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:
  M22906EA_000000B4.mcb
  M22906ED_000000BE.mcb

**New Fixes/Features:**

- Fixed issue when “IGD Minimum Memory” was set to 512MB ,1GB and 1.5GB, 4096MB system would not boot to OS.
- Fixed issue that Windows Update prompt an abnormal TPM update box on Quartz Canyon.
- Disabled Thunderbolt boot as default.
- Fixed issue regarding BIOS Setup & Boot.
- Fixed issue where TCG Storage Device Security Configuration was incorrect.

- Updated ME FW to 12.0.67.1579
- Updated PMC FW 300.2.11.1025
- Improved SMBIOS capabilities.
- Updated EC FW 24.36
- Removed ME version blocker in flash update process.
- Fixed issue where failsafe watchdog does not active and load memory default after unexpected adjustment with memory setting.
- Implemented QR code feature for Aptio V BIOS.
- Optimized BIOS boot time.
- Fixed issue that system abnormal wake from S3, S4 and S5 in sleep state.
- Implemented Over-Clocking function.
- Updated BIOS code for security fixes.
- Fixed issue with iSetupCfg implementation.
- Hide “Legacy Boot” option and setup strings.
- Fixed issue with BIOS recovery.
- Improved WMI Interface and functions:
  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.

## BIOS Version 0036 - QXCFL579.0036.2019.1212.0145

**About This Release:**

- Date: December 12, 2019
- ROM Image Checksum: 0x267E
- ME Firmware: 12.0.40.1433
- EC Firmware: 24.34
- Memory Reference Code: Based on 7.0.68.40
- Integrated Graphics:
  - Option ROM: NA
  - UEFI Driver: 9.0.1086
- SATA RAID Option ROM: 17.5.0.4055
- SATA non-RAID Option ROM: NA
- 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:
  M22906EA_000000B4.mcb
  M22906ED_000000BE.mcb

**New Fixes/Features:**

- BIOS version available for **NUC9i5QNX, NUC9i7QNX, NUC9i9QNX**
- Fixed issue where monitor did not display when set "PCIE Bifurcation Configuration" to force x16.
- Changed PL1 to 45W for **NUC9i5QNX** only.

## BIOS Version 0034 - QXCFL579.0034.2019.1125.1436

**About This Release:**

- Date: January 7, 2020
- ROM Image Checksum: 0x2FB6
- ME Firmware: 12.0.40.1433
- EC Firmware: 24.33
- 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:
  M22906EA_000000B4.mcb
  M22906ED_000000BE.mcb

**New Fixes/Features:**

- Initial production BIOS release
- This BIOS version applies only to **NUC9i7QNX, NUC9i9QNX**

## 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.**