



## BIOS Update Release Notes

**PRODUCTS: NUC9i5QNX, NUC9i7QNX, NUC9i9QNX**

**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 W25Q128JVS IQ 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.

**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 W25Q128JVS IQ 16MB
- Microcode Updates included in .BIN & .CAP Files:

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

- o M22906EA\_000000EA.pdb
- o 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.

<b>BIOS Version 0063 - QXCFL579.0063.2021.0526.1105</b>
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**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
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- 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.

<b>BIOS Version 0062 - QXCFL579.0062.2021.0511.1841</b>
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**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
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- Microcode Updates included in .BIN & .CAP Files:

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

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.

<b>BIOS Version 0061 - QXCFL579.0061.2021.0304.1546</b>
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**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      W25Q128JVS1Q      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.

<b>BIOS Version 0059 - QXCFL579.0059.2020.1201.1358</b>
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**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	W25Q128JVS IQ	16MB
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- 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".

<b>BIOS Version 0054 - QXCFL579.0054.2020.0811.1512</b>
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**About This Release:**

- Date: August 11, 2020
- ROM Image Checksum: 0x3A84
- ME Firmware: 12.0.67.1579

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

- 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
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- 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.

<b>BIOS Version 0052 - QXCFL579.0052.2020.0717.1650</b>
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#### **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
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- 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.

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- 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.

<b>BIOS Version 0036 - QXCFL579.0036.2019.1212.0145</b>
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#### **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	W25Q128JVS1Q	16MB
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- 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.

<b>BIOS Version 0034 - QXCFL579.0034.2019.1125.1436</b>
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**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 W25Q128JVS IQ 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**

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