



## NUC BIOS Update Release Notes

**PRODUCTS:** NUC9i5QNB/X, NUC9i7QNB/X, NUC9i9QNB/X (Ghost Canyon)

**Version 0076 - QXCFL579.0076.2024.0522.1634**

### About This Release:

- ROM Image Checksum: 0xA80D428F
- EC Firmware: 24.44
- ME Firmware: 12.0.94.2380
- 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
- Microcode Updates included in .ROM File:
  - M22906EA\_000000F8.pdb
  - M22906ED\_00000100.pdb

### Security Patch:

- 2023.4 Intel Platform Update
- Flash driver security review
- TOCTOU Vulnerability in SmiFlash (Enhancement)
- Vulnerabilities in EDK2 NetworkPkg
- Extended Image Parser Corruption Correction
- UsbRt TOCTOU Vulnerability
- 2024.1 Intel Platform Update

### Feature Change/Update:

- Update Intel KEK/DB keys to support MSFT CA 2023

### Issue Fix:

- If use F7 update that not support BIOS revision .CAP file, the message have "Intel" link
- The POST screen is not correct after the BIOS block downgrade message is displayed.
- EBU will fail on the second time update

---

## LEGAL INFORMATION

---

Information in this document is provided in connection with ASUS Products and for the purpose of supporting ASUS 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 ASUS's Terms and Conditions of Sale for such products, ASUS assumes no liability whatsoever, and ASUS disclaims any express or implied warranty, relating to sale and/or use of ASUS products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. ASUSTeK Computer Inc. 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. ASUS products are not intended for use in medical, life saving, or life sustaining applications. ASUS may make changes to specifications and product descriptions at any time, without notice.

ASUS and the ASUS logo are trademarks of ASUSTeK Computer Incorporated.  
Copyright © 2024, ASUSTeK Computer Inc. All rights reserved.