



## BIOS Update Release Notes

**PRODUCTS: NUC5i3RYH, NUC5i3RYHS, NUC5i3RYHSN, NUC5i3RYK,  
NUC5i5RYH, NUC5i5RYHS, NUC5i5RYK, NUC5i7RYH**

**BIOS Version 0385 - RYBDWi35.86A.0385.2020.0519.1558**

### About This Release:

- Date: May 19, 2020
- ROM Image Checksum: 0X0A4E
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23
  
- Supported Flash Devices:

WinBond	W25Q64FV	8MB
MACRONIX	MX25L6406EM2I	8MB
  
- Microcode Updates included in .ROM & .BIO Files:  
MC0306D4\_0000002D

### New Fixes/Features:

- Updated BIOS code for security fixes.

**BIOS Version 0384 - RYBDWi35.86A.0384.2020.0116.1708**

### About This Release:

- Date: Jan 16, 2020
- ROM Image Checksum: 0X8B0B
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

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

- Supported Flash Devices:
 

WinBond	W25Q64FV	8MB
MACRONIX	MX25L6406EM2I	8MB
- Microcode Updates included in .ROM & .BIO Files:
 

MC0306D4_0000002D
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**New Fixes/Features:**

- Updated BIOS code for security fixes.

**BIOS Version 0383 - RYBDWi35.86A.0383.2019.1030.1528**

**About This Release:**

- Date: October 30, 2019
- ROM Image Checksum: 0XC435
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
 

Option ROM: Build 1039
UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23
- Supported Flash Devices:
 

WinBond	W25Q64FV	8MB
MACRONIX	MX25L6406EM2I	8MB
- Microcode Updates included in .ROM & .BIO Files:
 

MC0306D4_0000002D
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**New Fixes/Features:**

- Fixed issue where a custom splash screen can't be set using the Intel Integrator Toolkit.

**BIOS Version 0382 - RYBDWi35.86A.0382.2019.1008.1130**

**About This Release:**

- Date: October 8, 2019
- ROM Image Checksum: 0X822C
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
 

Option ROM: Build 1039
UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23
- Supported Flash Devices:
 

WinBond	W25Q64FV	8MB
MACRONIX	MX25L6406EM2I	8MB

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

- Microcode Updates included in .ROM & .BIO Files:  
MC0306D4\_0000002D

**New Fixes/Features:**

- Fixed issue where UEFI Network PXE Boot option is not available.

**BIOS Version 0381 - RYBDWi35.86A.0381.2019.0807.1532**

**About This Release:**

- Date: August 7, 2019
- ROM Image Checksum: 0X437D
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23
- Supported Flash Devices:

WinBond	W25Q64FV	8MB
MACRONIX	MX25L6406EM2I	8MB
- Microcode Updates included in .ROM & .BIO Files:  
MC0306D4\_0000002D

**New Fixes/Features:**

- Updated BIOS code for security fixes.
- Improved BIOS code for USB module.

**BIOS Version 0380 - RYBDWi35.86A.0380.2019.0517.1530**

**About This Release:**

- Date: May 17, 2019
- ROM Image Checksum: 0X48AC
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Updated BIOS code for security fixes.
- Changed chassis enclosure type to 0x23.

**Known Errata:**

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

- Due to a security enhancement, it will not be possible to downgrade to BIOS 0366 or below.

**BIOS Version 0379 - RYBDWi35.86A.0379.2019.0408.1945**

**About This Release:**

- Date: April 8, 2019
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- Updated BIOS code for security fixes.

**BIOS Version 0378 - RYBDWi35.86A.0378.2019.0219.1736**

**About This Release:**

- Date: February 19, 2019
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- Updated BIOS code for security fixes.

**BIOS Version 0377 - RYBDWi35.86A.0377.2018.1226.1750**

**About This Release:**

- Date: December 26, 2018
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241

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

- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- Improved power limit and ICCmax settings.
- Added power limit setting for NUC5i5RYHS SKU.

**BIOS Version 0375 - RYBDWi35.86A.0375.2018.1114.1652**

**About This Release:**

- Date: November 14, 2018
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- Improved the thermal solution.
- Fixed issue where system hangs during POST when Western Digital 1TB MyPassport external USB drive is connected.
- Added Setup item **Power Button Menu Beeps**, with default set to enabled.

**BIOS Version 0373 - RYBDWi35.86A.0373.2018.0802.1639**

**About This Release:**

- Date: August 2, 2018
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - o Option ROM: Build 1039
  - o UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- BIOS functionality enhancements.
- Changed the naming scheme of the USB ports to more accurately denote where the port is on the board.

**BIOS Version 0371 - RYBDWi35.86A.0371.2018.0709.1155**

**About This Release:**

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

- Date: July 9, 2018
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Updated CPU Microcode (Security Advisory-00115)
- Disabled and removed Intel® Ready Mode Technology related items from BIOS setup for Intel Security fix.

<b>BIOS Version 0370 - RYBDWi35.86A.0370.2018.0604.1034</b>
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**About This Release:**

- Date: June 04, 2018
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Security enhancements.

<b>BIOS Version 0369 - RYBDWi35.86A.0369.2018.0305.1050</b>
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**About This Release:**

- Date: March 05, 2018
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

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

- Updated CPU Microcode (Security Advisory-00088)

<b>BIOS Version 0367 - RYBDWi35.86A.0367.2017.0929.1059</b>
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**About This Release:**

- Date: September 29, 2017
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Added Setup item "Allow UEFI 3rd party driver loaded" and set the default as disabled.
- Added security enhancements.
- Due to a security enhancement, it will not be possible to downgrade to any BIOS earlier than BIOS 0367.

<b>BIOS Version 0366 - RYBDWi35.86A.0366.2017.0816.1026</b>
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**About This Release:**

- Date: August 16, 2017
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics:
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Added S.M.A.R.T item and functionality.

<b>BIOS Version 0365 - RYBDWi35.86A.0365.2017.0704.1050</b>
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**About This Release:**

- Date: July 04, 2017
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033

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

- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Fixed issue where the screen wouldn't fit on some displays.

**BIOS Version 0364 - RYBDWi35.86A.0364.2017.0511.0949**

**About This Release:**

- Date: May 11, 2017
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- Fixed an issue where running TpmCreate.efi with the TPM\_CC\_Create command would cause an error message.
- Fixed an issue when running CHIPSEC v1.2.5 would cause an error message.

**BIOS Version 0362 - RYBDWi35.86A.0362.2017.0118.0940**

**About This Release:**

- Date: January 18, 2017
- ME Firmware: 10.0.45.1024
- EC Firmware: NA
- Memory Reference Code: Based on 2.9.0
- MEBx Code: Based on 10.0.0.0007
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- SATA RAID Option ROM: v14.5.0.2241
- SATA non-RAID Option ROM: 14.5.0.2241
- AHCI Code: Based on AHCI\_09
- LAN Option ROM: v1553 PXE 2.1 Build 092
- Visual Bios: 2.2.23

**New Fixes/Features:**

- Security enhancements.

**BIOS Version 0361 - RYBDWi35.86A.0361.2016.1202.1005**

**About This Release:**

- Date: December 02, 2016

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



- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Security Enhancements.

<b>BIOS Version 0360 - RYBDWi35.86A.0360.2016.1109.0946</b>
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**About This Release:**

- Date: November 09, 2016
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Security Enhancements.
- Changed SATA DevSleep default setting to disable.

<b>BIOS Version 0359 - RYBDWi35.86A.0359.2016.0906.1028</b>
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**About This Release:**

- Date: September 06, 2016
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.23 Production Candidate Build

**New Fixes/Features:**

- Security Enhancements.
- Updated BootScriptHide module to BootScriptHide\_02.
- Updated Visual BIOS to 2.2.23.
  - Fixed missing voltages in Cooling Page.
  - Fixed inactive Home Page 3 and Performance links on NUC theme.
  - Added support for loading data from file for platform (e.g. EDID, Secure Boot, etc).

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

- o Fixed issue where unsupported keys could be entered in password.
- o Fixed hang when using keyboard to configure a drop down control.
- o Added support for legacy boot options to Visual Boot Manager.
- o Added support for booting to multiple partitions on the same device from Visual Boot Manager.
- o Added support to Visual Boot Manager for booting to operating systems that do not support EFI default boot path.

<b>BIOS Version 0358 - RYBDWi35.86A.0358.2016.0606.1423</b>
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**About This Release:**

- Date: June 06, 2016
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.20 Production Candidate Build

**New Fixes/Features:**

- Fixed an issue that when the Visual BIOS theme was changed to VISUAL\_BIOS\_THEME\_TYPE = 0 (PERFORMANCE\_THEME) it wouldn't show Fan Speeds, Temperatures, and Thresholds icons in Performance Monitor item of the Setup Home page.
- Fixed an issue where the NUC can't wake up from S3 by pressing the power button in Linux.
- Added Windows Update patch.

**Visual BIOS update to 2.2.20. Fixes include:**

- Hotfix to remove performance page accessibility from Atom-based NUC products.
- Hotfix to remove download driver and automatic BIOS update feature.

<b>BIOS Version 0356 - RYBDWi35.86A.0356.2016.0506.1355</b>
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**About This Release:**

- Date: May 09, 2016
- ME Firmware: 10.0.45.1024
- Memory Reference Code: Based on 2.9.0
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.17 Production Candidate Build

**New Fixes/Features:**

- Hid "NFC" setup item.
- Improved BIOS update function to disable keyboard and power button during flash/recovery process.
- Removed WlanDynamicSolution setup item but kept WiFi WRDD.
- Improved power button menu and F4 recovery by:
  - Removing the G3 power button recovery
  - Adding BIOS ID information prompt
  - Allowing the user to cancel the recovery by selecting [ESC] within 20 seconds of starting the process
  - Added progress information during the recovery.
  - Increased the key press detection to 3.51 sec.
- Updated Visual BIOS to 2.2.20.
- Hotfix to remove download driver and automatic BIOS update feature.

<b>BIOS Version - RYBDWi35.86A.0355.2016.0224.1501</b>
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**About This Release:**

- Date: February 25, 2016
- ME Firmware: 10.0.45.1024
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.17 Production Candidate Build

**New Fixes/Features:**

- Fixed issue where NVMe m.2 would not be seen in Windows 7.
- Fixed issue where the user could access Failsafe watchdog when the User Password and User Access Level was not set for access.

<b>BIOS Version - RYBDWi35.86A.0354.2016.0120.0912</b>
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**About This Release:**

- Date: January 20, 2016
- ME Firmware: 10.0.45.1024
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.17 Production Candidate Build

**New Fixes/Features:**

- Fixed an issue with secure boot and PXE security.
- Fixed an issue where Intel Tool Kit showed the incorrect project name.
- Fixed an issue where the user could access the Cooling page when the user access was set to Limited.

**BIOS Version 0353 - RYBDWi35.86A.0353.2015.1222.0947**

**About This Release:**

- Date: December 22, 2015
- ME Firmware: 10.0.45.1024
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.17 Production Candidate Build

**New Fixes/Features:**

- Fixed issue where Ctrl + I wouldn't show, so it wasn't possible to configure RAID.
- Fixed issue where SMBIOS TYPE9 wouldn't fill in the correct information.
- Fixed issue that would cause Device Manager to show "unknown device" when CIR was disabled in BIOS.

**BIOS Version 0352 - RYBDWi35.86A.0352.2015.1130.1011**

**About This Release:**

- Date: November 30, 2015
- ME Firmware: 10.0.45.1024
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.17 Production Candidate Build

**New Fixes/Features:**

- Fixed an issue where the BIOS settings aren't saved after flash update.

**BIOS Version 0350 - RYBDWi35.86A.0350.2015.0812.1722**

**About This Release:**

- Date: August 12, 2015
- ME Firmware: 10.0.45.1024
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.17 Production Candidate Build

**New Fixes/Features:**

- Fixed issue where system does not wake up from S5 using USB devices when BIOS option for **Wake on LAN from S4/S5** is set to **Stay Off**.

- Fixed issue where audio corruption occurs in Windows 7.
- Updated Visual BIOS to version 2.2.17. Fixes include:
  - Refactored graphics resolution algorithm to find closest supported resolution to 1024x768. This should correct scaling issues with 4K monitors.
  - Removed unused assets from Performance and Mainstream themes to reduce the overall size of Visual BIOS. Size savings should be around 300KB.

<b>BIOS Version 0348 - RYBDWi35.86A.0348.2015.0703.1124</b>
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**About This Release:**

- Date: July 3, 2015
- ME Firmware: 10.0.45.1024
- Integrated Graphics
  - Option ROM: Build 1039
  - UEFI Driver: 5.5. 1033
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v14.5.0.2241
- Visual Bios: 2.2.16 Production Candidate Build

**NOTE: Audio corruption in Windows 7 can occur with this BIOS version. Windows 10 and Windows 8.1 do not have any audio corruption issues with this BIOS version. Intel recommends that Windows 7 users upgrade to BIOS version 0350.**

**New Fixes/Features:**

- Updated VBIOS to version 1039
- Updated GOP to version 1033.
- Updated Intel® ME firmware to version 10.0.45.1024.
- Updated processor support.
- Updated RAID Option ROM to version 14.5.0.2241.
- Fixed issue where the power button on certain remote control does not wake the computer.
- Fixed issue where USB mouse and keyboard do not work as expected in BIOS setup.

<b>BIOS Version 0249 - RYBDWi35.86A.0249.2015.0529.1640</b>
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**About This Release:**

- Date: May 29, 2015
- ME Firmware: 10.0.38.1000
- Integrated Graphics
  - Option ROM: Build 1038\_150303
  - UEFI Driver: 5.5. 1032\_150303
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v13.5.0.2164
- Visual Bios: 2.2.16 Production Candidate Build

**New Fixes/Features:**

- Fixed issue where SMBIOS system manufacturer and system model are incorrect in MSINFO32 and other applications.
- Fixed issue where the Event Log does not display an error when the battery is removed.

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

- Fixed issue where the watchdog timer fails to reboot the system after a system hang.
- Added BIOS option in Intel® Integrator Toolkit (ITK) to Install Intel Platform Key.
- Updated UQI and ITK items:
  - Correct UQIs with setup spec v0.97.
  - Show "Balanced Enabled", "Low power enabled" and "Max performance enabled" in ITK GUI.
  - Show the power page sub-items in ITK GUI. (PL1/PL2/ICC Max/Tau/EIST/OS ACPI C2)

<b>BIOS Version 0247 - RYBDWi35.86A.0247.2015.0415.1351</b>
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**About This Release:**

- Date: April 15, 2015
- ME Firmware: 10.0.38.1000
- Integrated Graphics
  - Option ROM: Build 1038\_150303
  - UEFI Driver: 5.5. 1032\_150303
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v13.5.0.1056
- Visual Bios: 2.2.16 Production Candidate Build

**New Fixes/Features:**

- Added BIOS options on the Secondary Power Settings page to enable or disable Wake from S3 via CIR and Wake from S4 and S5 via CIR.
- Added BIOS option on the Legacy Device Config page to select the CIR Remote Controller Type.
- Fixed issue where CIR remote fails in OpenELEC\*.
- Fixed issue where SMBIOS System Manufacturer and System Model do not appear correctly in MSINFO32 and other applications.
- Updated help string of USB charging port: *Charging Only: USB Port will always provide extra power but cannot be used to transfer data with USB 2.0 device.*

<b>BIOS Version 0246 - RYBDWi35.86A.0246.2015.0309.1355</b>
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**About This Release:**

- Date: March 9, 2015
- ME Firmware: 10.0.38.1000
- Integrated Graphics
  - Option ROM: Build 1038\_150303
  - UEFI Driver: 5.5. 1032\_150303
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v13.5.0.1056
- Visual Bios: 2.2.16

**New Fixes/Features:**

- Added performance settings for NUC5i7RYH SKU.
- Updated Intel® ME firmware to version 10.0.38.1000.
- Updated GOP to version 1032 and vBIOS to version 1038.
- Updated processor support.
- Added xHCI Mode setting to USB Configuration page in BIOS.
- Fixed issue with iSCSI IPV6.

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

- Fixed issue where loading default values fails.
- Fixed WHCK TPM issues:
  - BitLocker Tpm+PIN+ USB and Recovery Password tests for NON ARM devices
  - TPM 2.0 - Supplemental test
  - TPM 2.0 UEFI Preboot Interface Test
  - TPM Platform Crypto Provider Key Storage Provider Test
- Added support for M.2 PCIe NVMe storage boot.
- Updated Intel® Visual BIOS to version 2.2.16. Fixes include:
  - Fixed issue in Download Drivers feature where certain drivers were not visible if multiple attachments exist in the same record.
  - Fixed issue in Download Drivers feature where incorrect drivers would display if product was not found in database.
  - Fixed issue in Performance page that prevented additional workspaces from showing up (i.e. Memory Timings, etc.)
- Added support for F5 Windows Recovery feature.
- Fixed issue where system hangs at POST code 19 after Intel Platform Trust Technology is enabled.
- Fixed issue where VT-d is missing from BIOS.
- Modified NFC behavior: When NFC is enabled in BIOS, GPIO Lockdown is disabled and greyed out.
- Fixed issue with Fixed Disk Boot Sector.
- Modified the options for the IGD Aperture size setting.
- Added WLAN and Bluetooth settings to the Onboard Devices page in BIOS.
- Fixed issue where BIOS password prompts are not suppressed in Config Mode.

<b>BIOS Version 0137 - RYBDWi35.86A.0137.2015.0107.1700</b>
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**About This Release:**

- Date: January 7, 2015
- ME Firmware: 10.0.30.1072
- Integrated Graphics
  - Option ROM: Build 1035\_1103
  - UEFI Driver: 5.5.1031\_1103
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v13.5.0.1056
- Visual Bios: 2.2.14 Production Candidate Build

**New Fixes/Features:**

- Fixed issue where customized power setting options are missing.
- Fixed issue where ICC Max is hidden if any pre-defined power settings are enabled.
- Fixed issue where BIOS password prompts are not suppressed in Config Mode.
- Fixed issue where VCUST and Intel® Integrator Toolkit cannot access the Near Field Communication BIOS option.
- Added onboard WiFi and Bluetooth\* setup items in BIOS Setup.
- Updated BIOS to hide Power page items if Low Power, Balanced Power, or Max Performance is enabled.
- Updated processor support.
- Fixed issue where an error on NFC device shows in Device Manager.
- Fixed issue where Onboard LAN as the first boot device will fail.

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

- Updated Visual BIOS to version 2.2.14. Fixes include:
  - Fixed touch monitors not working correctly when display adapter supports greater than 1024x768 resolution.
  - Fixed AMT USB-R issue where absolute mouse position would not scale correctly in Visual BIOS.
- Added "Power Sense" item.

<b>BIOS Version 0132 - RYBDWi35.86A.0132.2014.1217.1148</b>
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**About This Release:**

- Date: December 17, 2014
- ME Firmware: 10.0.30.1072
- Integrated Graphics
  - Option ROM: Build 1032\_1006
  - UEFI Driver: 5.5.1028\_1006
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v13.5.0.1056
- Visual Bios: 2.2.13

**New Fixes/Features:**

- Set SIO GPIO 76 output Low.
- Fixed issue where it takes too long to begin a flash update.
- Fixed issue where system shuts down when LAN is disabled in BIOS.
- Added GPIO lockdown item in BIOS.

<b>BIOS Version 0130 - RYBDWi35.86A.0130.2014.1203.1639</b>
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**About This Release:**

- Date: December 3, 2014
- ME Firmware: 10.0.30.1072
- Integrated Graphics
  - Option ROM: Build 1032\_1006
  - UEFI Driver: 5.5.1028\_1006
- LAN
  - Option ROM: v1553 PXE 2.1 Build 092
- SATA RAID Option ROM: v13.5.0.1056
- Visual Bios: 2.2.13

**New Fixes/Features:**

- Initial production BIOS release

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