



BIOS Update Release Notes

**PRODUCTS: NUC5i3RYH, NUC5i3RYK, NUC5i5RYH, NUC5i5RYK,
NUC5i7RYH (Standard BIOS)**

BIOS Version 0359 - RYBDWi35.86A.0359.2016.0906.1028

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.
 - o Fixed missing voltages in Cooling Page.
 - o Fixed inactive Home Page 3 and Performance links on NUC theme.
 - o Added support for loading data from file for platform (e.g. EDID, Secure Boot, etc).
 - 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.

BIOS Version 0358 - RYBDWi35.86A.0358.2016.0606.1423

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

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- 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.

BIOS Version 0356 - RYBDWi35.86A.0356.2016.0506.1355

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:
 - o Removing the G3 power button recovery
 - o Adding BIOS ID information prompt
 - o Allowing the user to cancel the recovery by selecting [ESC] within 20 seconds of starting the process
 - o Added progress information during the recovery.
 - o 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.

BIOS Version - RYBDWi35.86A.0355.2016.0224.1501
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About This Release:

- Date: February 25, 2016
- ME Firmware: 10.0.45.1024
- Integrated Graphics
 - Option ROM: Build 1039

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

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.

BIOS Version - RYBDWi35.86A.0354.2016.0120.0912

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:

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

- 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.

BIOS Version 0348 - RYBDWi35.86A.0348.2015.0703.1124

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.

BIOS Version 0249 - RYBDWi35.86A.0249.2015.0529.1640

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.
- 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)

BIOS Version 0247 - RYBDWi35.86A.0247.2015.0415.1351

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

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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.*

BIOS Version 0246 - RYBDWi35.86A.0246.2015.0309.1355

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.
- 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.

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- Added WLAN and Bluetooth settings to the Onboard Devices page in BIOS.
- Fixed issue where BIOS password prompts are not suppressed in Config Mode.

BIOS Version 0137 - RYBDWi35.86A.0137.2015.0107.1700

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.
- 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.

BIOS Version 0132 - RYBDWi35.86A.0132.2014.1217.1148

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.

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- Fixed issue where system shuts down when LAN is disabled in BIOS.
- Added GPIO lockdown item in BIOS.

BIOS Version 0130 - RYBDWi35.86A.0130.2014.1203.1639

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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