



BIOS Update Release Notes

PRODUCTS: NUC6CAYS, NUC6CAYH (Standard BIOS)

BIOS Version 0053 - AYAPLCEL.86A.0053.2018.0727.1436

About This Release:

- Date: July 27, 2018
- ME Firmware: 3.1.50.2244
- EC Firmware: 21.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Removed Intel Ready Mode Technology setup item and set default to disabled for Intel PSIRT security fix.
- Fixed issue where while clearing the CMOS, system will boot into security jumper menu.
- Fixed issue where if remove and inject security jumper, system can't power on successfully
- Fixed issue where if press hotkey [1] in security jumper menu, it will hang on 0xFF.
- Fixed issue where if press hotkey [3] in security jumper menu, when reboot it will hang on 0xFF.

BIOS Version 0052 - AYAPLCEL.86A.0052.2018.0627.1943

About This Release:

- Date: June 27, 2018
- ME Firmware: 3.1.50.2244
- EC Firmware: 21.00
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Updated Intel TXE to version 3.1.50.2244.
- Updated CPU Microcode (Security Advisory-00115)

BIOS Version 0051 - AYAPLCEL.86A.0051.2018.0607.1337

About This Release:

- Date: June 07, 2018
- ME Firmware: 3.1.50.2222

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

- EC Firmware: 21.00
- Integrated Graphics:
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Updated the EC Firmware.
- Fixed CEC not working correctly.

BIOS Version 0050 - AYAPLCEL.86A.0050.2018.0521.1533

About This Release:

- Date: May 21, 2018
- ME Firmware: 3.1.50.2222
- EC Firmware: 20.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Security enhancements.
- Fixed the issue where Bluetooth would become disabled when updating the BIOS via F7.

BIOS Version 0049 - AYAPLCEL.86A.0049.2018.0508.1356

About This Release:

- Date: May 08, 2018
- ME Firmware: 3.1.50.2222
- EC Firmware: 20.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23
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New Fixes/Features:

- Added a Bluetooth item in setup menu, and default value is enabled.
- Fixed the issue where entering the hard drive password wouldn't work.

BIOS Version 0048 - AYAPLCEL.86A.0048.2018.0420.1555

About This Release:

- Date: April 20, 2018
- ME Firmware: 3.1.50.2222
- EC Firmware: 20.00

- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Security Enhancements

BIOS Version 0047 - AYAPLCEL.86A.0047.2018.0108.1419

About This Release:

- Date: January 08, 2018
- ME Firmware: 3.1.50.2222
- EC Firmware: 20.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00088)
- Fixed issue where the USB 3.0 ports would run at USB 2.0 speeds.

BIOS Version 0045 - AYAPLCEL.86A.0045.2017.1218.1433

About This Release:

- Date: December 18, 2017
- ME Firmware: 3.1.50.2222
- EC Firmware: 20.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)
- Visual BIOS: 2.2.23

New Fixes/Features:

- Fixed Screen flashing issue.

BIOS Version 0043 - AYAPLCEL.86A.0043.2017.1123.1559

About This Release:

- Date: November 23, 2017
- TXE Firmware: 3.1.50.2222
- EC Firmware: 20.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN Option ROM: PXE-2.1 (build 083)

- Visual BIOS: 2.2.23

New Fixes/Features:

- Updated the EC version to version 20.
- Fixed the issue that when the power adapter is dis-connected and reconnected when the NUC was in S3, it would enter into "Deep S4/S5" mode.

BIOS Version 0042 - AYAPLCEL.86A.0042.2017.1117.1918

About This Release:

- Date: November 17, 2017
- TXE Firmware: 3.1.50.2222
- EC Firmware: 19.00
- PMC Firmware: 3.1a
- Framework Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN:
 - Option ROM: PXE-2.1 (build 083)
- Visual Bios: 2.2.23

New Fixes/Features:

- Updated Trusted Execution Engine Firmware to version: 3.1.50.2222 (Security Advisory-00086).
- Due to a security enhancement, it will not be possible to go to any BIOS earlier than BIOS 0042.
- Updated the EC version to fix an issue where the NUC couldn't be woken up with a XBOX One or XBOX 360 remote.

BIOS Version 0041 - AYAPLCEL.86A.0041.2017.0825.1152

About This Release:

- Date: August 25, 2017
- TXE Firmware: 3.0.13.1144
- EC Firmware: 18.00
- PMC Firmware: 3.1a
- Framework Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN:
 - Option ROM: PXE-2.1 (build 083)
- Visual Bios: 2.2.23

New Fixes/Features:

- Security enhancements.
- Add setup item: "Allow UEFI 3rd party driver loaded".
- Fixed an issue where the system would not auto power on after a power failure and deep S4/S5 is enabled.

BIOS Update 0040 - AYAPLCEL.86A.0040.2017.0619.1722**About This Release:**

- Date: June 19, 2017
- TXE Firmware: 3.0.13.1144
- EC Firmware: 18.00
- PMC Firmware: 3.1a
- Framework Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN
 - Option ROM: PXE-2.1 (build 083)
- Visual Bios: 2.2.23

New Fixes/Features:

- Implemented BIOS recovery feature through EC initialization.
- Fixed the issue where the system would stop at POST code 9Ah if executing an EFI file over 300 MB.
- Fixed the issue where a USB wired mouse would move slowly after upgrading the BIOS to AY0024.
- Updated the EC version to version 18.0
- Fixed the LED effect when changing the always on mode to, low brightness slow fade mode.
- Implemented error message when trying to use the wrong BIOS.
- Fixed the issue where the LED button flashes abnormally while updating the BIOS.

BIOS Version 0038 - AYAPLCEL.86A.0038.2017.0310.1633**About This Release:**

- Date: March 10, 2017
- TXE Firmware: 3.0.13.1144
- EC Firmware: 16.00
- PMC Firmware: 3.1a
- Framework Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1036
- LAN
 - Option ROM: PXE-2.1 (build 083)
- Visual Bios: 2.2.23

New Fixes/Features:

- Changed RTD3 Setup item to be disabled on default.
- Changed the EC so that it cannot be downgraded.
- Updated the EC to version 16.0.
- Updated the GOP.
- Updated new LED items.
- Added CEC help strings in BIOS setup menu.
- Enabled LPC CLKRUN number.
- Fixed issue where waking on USB from S5 would fail.
- Updated Apollo Lake smart sound technology.

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- Fixed an issue where the system wouldn't boot if the startup sound was enabled or disabled via the BIOS setup menu.
- Fixed an issue where the UEFI SD card boot item is incorrect when the BIOS is set to legacy and UEFI boot.
- Updated the TXE to version 3.0.13.1144.
- Added more compatibility for ITK tool
- Fixed an issue where the NUC will not boot if shift+F10 are pressed and the Expansion card text is set to "Hide All", when the BIOS is set to legacy and UEFI boot.
- Fixed an issue where the SD card reader subsystem will display incorrectly after resuming from S3
- Fixed an issue where the rear USB 3.0 port would still detect a USB flash device when set to "Disabled".
- Fixed an issue where the Secure Jump Menu couldn't be suppressed.
- Fixed an issue where the Expansion Card Text would not show anything.
- Fixed an issue where Intel Boot Agent GE setup menu would not show anything.
- Updated the Apollo Lake label.
- Updated the Apollo Lake Framework BIOS Reference Code.
- Updated the CPU microcode.
- Updated the PMC firmware.
- Fixed an issue where the system always booted to the UEFI shell first.
- Fixed an issue where there would be no error message if fast boot failed on the previous boot.
- Fixed an issue where the maximum temperature setting of the fan, in custom mode, would not fill in the EC register correctly.
- Fixed an issue where, "The fixed mode default duty cycle" was incorrect.
- Fixed an issue where "Type 10: Intel High Definition Audio Device" needed to say, "Realtek High Definition Audio".

BIOS Version 0029 - AYAPLCEL.86A.0029.2016.1124.1625

About This Release:

- Date: November 24, 2016
- TXE Firmware: 3.0.11.1131
- Framework Reference Code: Based on 1.2.1
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1035
- LAN
 - Option ROM: PXE-2.1 (build 083)
- Visual Bios: 2.2.23
- PMC FW rev : 3.19
- EC FW rev : 14.00

New Fixes/Features:

- Fixed issue where the system would always first boot to UEFI shell in BIOS 0028.

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- Fixed issue where no error message would occur if the previous fast boot failed. Added maximum temperature for fan custom mod.

BIOS Version 0027 - AYAPLCEL.86A.0027.2016.1108.1529

About This Release:

- Date: November 08, 2016
- TXE Firmware: 3.0.11.1131
- Framework Reference Code: Based on 1.2.1
- Integrated Graphics
 - Option ROM: Build 1016 PC 14.34
 - UEFI Driver: 10.0.1035
- LAN
 - Option ROM: PXE-2.1 (build 083)
- Visual Bios: 2.2.23
- PMC FW rev : 3.19
- EC FW rev : 13.00

New Fixes/Features:

- Initial production BIOS release

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