



BIOS Update Release Notes

PRODUCTS: NUC5CPYH, NUC5PPYH, NUC5PGYH (Standard BIOS)

BIOS Version 0079 - PYBSWCEL.86A.0079.2020.0420.1316

About This Release:

- Date: Apr 20, 2020
- ROM Image Checksum: 0x00C4
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics:
 - Option ROM: Build 1014 PC 14.34
 - UEFI Driver: 8.0.1033
- LAN Option ROM: Realtek
- Visual Bios: 2.2.20

- Supported Flash Devices:

WinBond	W25Q64FWSSIG	8MB(1.8V)
MACRONIX	MX25U6435FM2I	8MB(1.8V)

- Additional Microcode Updates included in .ROM & .BIO Files:
 - M01406C3368
 - M01406C4411

New Fixes/Features:

- Updated BIOS code for security fixes.

BIOS Version 0078 - PYBSWCEL.86A.0078.2019.0807.1133

About This Release:

- Date: August 7, 2019
- ROM Image Checksum: 0x2081
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics
 - Option ROM: Build 1014 PC 14.34
 - UEFI Driver: 8.0.1033
- LAN
 - Option ROM: None
- Visual Bios: 2.2.20
- Supported Flash Devices:

WinBond	W25Q64FWSSIG	8MB(1.8V)
MACRONIX	MX25U6435FM2I	8MB(1.8V)

- Additional Microcode Updates included only in .BIO File:
 - M01406C3368
 - M01406C4411

New Fixes/Features:

- Updated BIOS code for security fixes.

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

BIOS Version 0077 - PYBSWCEL.86A.0077.2019.0606.1631

About This Release:

- Date: June 6, 2019
- ROM Image Checksum: 0xD4C1
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics:
 - Option ROM: Build 1014 PC 14.34
 - UEFI Driver: 8.0.1033
- LAN Option ROM: Realtek
- Visual Bios: 2.2.20
- Supported Flash Devices:

WinBond	W25Q64FWSSIG	8MB (1.8V)
MACRONIX	MX25U6435FM2I	8MB (1.8V)
- Microcode Updates included in .ROM & .BIO Files:
 - M01406C3_368.TXT
 - M01406C4_411.TXT

New Fixes/Features:

- Updated CPU microcode for security fix.
- Modified the chassis enclosure type to 0x23.

BIOS Version 0076 - PYBSWCEL.86A.0076.2019.0321.1658

About This Release:

- Date: March 21, 2019
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics
 - Option ROM: Build 1014 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Updated BIOS code for security fixes.

BIOS Version 0075 - PYBSWCEL.86A.0075.2018.0917.1423

About This Release:

- Date: September 17, 2018
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics
 - Option ROM: Build 1014 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Fixed issue where there is no display during PXE boot with Fedora 14.

BIOS Version 0074 - PYBSWCEL.86A.0074.2018.0709.1332

About This Release:

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

- Date: July 9, 2018
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics:
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Disabled and removed Intel® Ready Mode Technology related items from BIOS setup for Intel Security fix.

BIOS Version 0073 - PYBSWCEL.86A.0073.2018.0614.1654

About This Release:

- Date: June 14, 2018
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics
 - o Option ROM: Build 1007 PC 14.34
 - o UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Improved compatibility and stability with SSDs
- Security enhancements

BIOS Version 0069 - PYBSWCEL.86A.0069.2018.0314.1745

About This Release:

- Date: March 14, 2018
- TXE Firmware: 02.00.05.3117 PV
- Framework BIOS Reference Code: Based on 1.2.1
- Integrated Graphics:
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00088)
- Fixed issue Where Samsung EVO SSD is not seen after updating to interim BIOS version 0066 or 0068.
- Fixed issue with Security Jumper menu item.
- Updated BIOS for CPU D-stepping support.
- Fixed the issue where the system wouldn't boot with some 8GB memory modules.
- Enabled BIOS write protect.
- Added the setup option "Allow UEFI Third Party Driver loaded" and set the default state to disabled.

BIOS Version 0064 - PYBSWCEL.86A.0064.2017.0815.1055

About This Release:

- Date: August 15, 2017
- TXE Firmware: 02.00.02.2092 PV

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

- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Changed the defaults of setup item "Intel Dynamic Power Technology" to custom and setup item "OS ACPI C2 Report" to disabled.

BIOS Version 0063 - PYBSWCEL.86A.0063.2017.0807.1503

About This Release:

- Date: August 7, 2017
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Fixed the issue where the wrong BIOS ID string was getting written into the Windows* registry.

BIOS Version 0062 - PYBSWCEL.86A.0062.2017.0308.1328

About This Release:

- Date: March 8, 2017
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Fixed the BIOS power button recovery.

BIOS Version 0061 - PYBSWCEL.86A.0061.2017.0110.1407

About This Release:

- Date: January 10, 2017
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Security enhancements.

BIOS Version 0060 - PYBSWCEL.86A.0060.2016.1228.1604

About This Release:

- Date: December 28, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Security Enhancements
- Fixed TPM2.0 error

BIOS Version 0058 - PYBSWCEL.86A.0058.2016.1102.1842

About This Release:

- Date: November 02, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Security Enhancements

BIOS Version - PYBSWCEL.86A.0057.2016.1012.1134

About This Release:

- Date: October 12, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Fixed TPM2.0 error.

BIOS Version 0056 - PYBSWCEL.86A.0056.2016.0901.1751

About This Release:

- Date: September 01, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

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

- Added patch code for SA50011
- Updated the NVMe module to NVMe_04.
- Added patch code for EBDA.
- Added patch code for ITK.
- Updated BootScriptHide to 02.
- Updated TCG to TCG_10

BIOS Version 0055 - PYBSWCEL.86A.0055.2016.0812.1130

About This Release:

- Date: August 12, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Fixed the issue where some memory would cause the NUC not to boot.

BIOS Version 0054 - PYBSWCEL.86A.0054.2016.0503.1546

About This Release:

- Date: May 03, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.20

New Fixes/Features:

- Hid "NFC" setup item.
- Improved BIOS update function by disabling keyboard and power button during the flash/recovery process.
- Removed WlanDynamicSolution setup item but kept WiFi WRDD.
- Updated Intel Visual BIOS to 2.2.20.
- Hotfix to remove download driver and automatic BIOS update feature.

BIOS Version 0053 - PYBSWCEL.86A.0053.2016.0401.1154

About This Release:

- Date: April 1, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.19

New Fixes/Features:

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

- Added support to allow the use of alternative wireless cards.
- Updated CPU microcode.
- 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 information about the progress of the recovery process.
- Fixed an issue where the **Wi-Fi Dynamic Regulatory Solution** would default to disabled when the BIOS is updated from 0044 to 0047, 0048, or 0049
- Changed the operating system shutdown temperature limit to 115° C
- Fixed an issue where **After Power Failure** would default to **Stay Off**
- Fixed an issue where NULL is used as a user password.
- Fixed a SMBIOS system slot information issue

BIOS Version 0050 - PYBSWCEL.86A.0050.2016.0223.1234

About This Release:

- Date: February 23, 2016
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.19

New Fixes/Features:

- Changed the limit for shutdown to 115 degrees.

BIOS Version 0048 - PYBSWCEL.86A.0048.2015.1210.1424

About This Release:

- Date: December 10, 2015
- TXE Firmware: 02.00.02.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.19

New Fixes/Features:

- Changed the SMBIOS Type 41 Information.
- Updated Ethernet device to show "Realtek ALC283" as "Onboard LAN".
- Improved SD card compatibility in Linux OS.

BIOS Version 0047 - PYBSWCEL.86A.0047.2015.1123.0950

About This Release:

- Date: November 23, 2015
- TXE Firmware: 2.0.0.2092 PV
- Framework BIOS Reference Code: Based on 1.1.0

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

- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.19

New Fixes/Features:

- Updated TXE to version 2092
- Added MFGDMI tool support for UEFI BIOS.
- Improved SD card compatibility with Linux OS's.
- Added the "Wi-Fi Dynamic Regulatory Solution" setup item for Indonesia WIFI lock frequency.

BIOS Version 0044 - PYBSWCEL.86A.0044.2015.0925.1143

About This Release:

- Date: September, 25, 2015
- TXE Firmware: 2.0.0.2084 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.19

New Fixes/Features:

- Updated processor support.
- Updated TXE to version 2084.
- Fixed issue that the settings change cannot be saved as BIOS file in ITK.
- Changed the "OS selection" dropdown box, replacing the "Windows 8.x" option with "Windows 8.x/Windows 10".
- Fixed issue where computer won't power on if a flash disk is connected to a USB port.
- Fixed issue where the CIR wasn't working when the NUC awoke from sleep.

BIOS Version 0043 - PYBSWCEL.86A.0043.2015.0904.1904

About This Release:

- Date: September 4, 2015
- TXE Firmware: 2.0.0.2077 PV
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.16

New Fixes/Features:

- Fixed issue with WHCK WindowsToGo Boot Test.
- Fixed issue where SD host adapter incorrectly shows in Windows 7 Device Manager.
- Fixed issue where a customized .BIO file cannot be saved in Intel® Integrator Toolkit.
- Fixed issue with SMBIOS type10 onboard devices.
- Fixed issue where a thermal trip event appears twice in the event log.

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

- Fixed issue where system hangs at POST code B4.
- Changed the default value for Platform Trust Technology.

BIOS Version 0040 - PYBSWCEL.86A.0040.2015.0814.1353

About This Release:

- Date: August 14, 2015
- TXE Firmware: 2.0.0.2077 Beta
- Framework BIOS Reference Code: Based on 1.1.0
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - UEFI Driver: 8.0.1033
- Visual Bios: 2.2.16

New Fixes/Features:

- Updated TXE firmware to version 2077.
- Updated processor support.
- Fixed issue where system hangs during PXE boot.
- Fixed issue where USB mouse does not work.
- Changed the prompt for F8 recovery to show Windows 8.1/10.
- Fixed SD card compatibility issue.
- Fixed issue with USB device icon.
- Fixed issue with USB charging in S5.
- Fixed issue with RTC wakeup in S3/S4.
- Fixed issue where Express BIOS Update fails if Legacy Mode is disabled in BIOS.
- Added support for Intel® NUC Kit NUC5PGYH.
- Updated VBIOS to version 1007 and GOP to version 8.0.1033.
- Fixed issue where power LED does not blink when memory is not installed or during flash update.
- Fixed issue where CPU fan state is incorrect when the system is in Ready Mode.
- Fixed issue where SD bootable device name is incorrect.
- Fixed issue where L2 Cache value is incorrect in BIOS.
- Fixed issue where screen blinks with keyboard input in DOS.

Known Errata:

- Event log shows CMOS Checksum Error if BIOS is downgraded to previous version (due to BIOS reference code update).

BIOS Version 0031 - PYBSWCEL.86A.0031.2015.0601.1712

About This Release:

- Date: June 1, 2015
- TXE Firmware: 2.0.0.2060 Beta
- Framework BIOS Reference Code: Based on 1.0.1
- Integrated Graphics
 - Option ROM: Build 1005 PC 14.34
 - UEFI Driver: 8.0.1028
- Visual Bios: 2.2.16

New Fixes/Features:

- Fixed issue where Express BIOS Update
- Fixed USB 2.0 port wake from S5 issue.
- Updated Intel® Integrator Toolkit:

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

- Added OS ACPI C2 Report setting
- Added IGD Secondary video port setting
- Added BIOS option on the Devices and Peripherals > SATA page to enable or disable HDD Activity LED.
- Fixed issue where L2 cache shows as 2M.
- Disabled Serial IO driver for Windows 7.
- Fixed CPU fan issue with Intel Ready Mode Technology.

BIOS Version 0027 - PYBSWCEL.86A.0027.2015.0507.1758

About This Release:

- Date: May 7, 2015
- TXE Firmware: 2.0.0.2060 Beta
- Framework BIOS Reference Code: Based on 1.0.1
- Integrated Graphics
 - Option ROM: Build 1005 PC 14.34
 - UEFI Driver: 8.0.1028
- Visual Bios: 2.2.16

New Fixes/Features:

- Initial production BIOS release

LEGAL INFORMATION

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

Intel is a trademark of Intel Corporation in the US and other countries.
Copyright (c) 2018 Intel Corporation.

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