



BIOS Update Release Notes

PRODUCTS: DN2820FYKH (Standard BIOS)

BIOS Version 0048 - FYBYT10H.86A.0048.2015.0129.1411

About This Release:

- Date: January 29, 2015
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1015 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed Power Button Recovery issue under G3 mode.
- Fixed BIOSID issue under F7.
- Fixed issue where consumer infrared (CIR) remote still wakes the system when CIR is disabled in BIOS.
- Fixed issue where BIOS password prompts are not suppressed in Config Mode.
- Fixed issue with Power LED not blinking when the Thermal Trip warning is generated.
- Fixed issue where BIOS password can't detect upper and lower case characters.
- Added "Suppress Alert Messages At Boot" item in Visual BIOS.

BIOS Version 0047 - FYBYT10H.86A.0047.2014.1224.1147

About This Release:

- Date: December 24, 2014
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1015 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue with the Configure menu with the security jumper.

BIOS Version 0045 - FYBYT10H.86A.0045.2014.1212.1150

About This Release:

- Date: December 12, 2014
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1015 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where incorrect thermal event appears in the Event Log and shows a warning message during boot.
- Removed certain security enhancements.

BIOS Version 0043 - FYBYT10H.86A.0043.2014.1205.1319

About This Release:

- Date: December 5, 2014
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1015 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.13
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where incorrect thermal event appears in the Event Log and shows a warning message during boot.
- Updated Visual BIOS to version 2.2.13. Fixes include:
 - o Fixed password input so that only A-Z, a-z, and 0-9 characters are accepted.
 - o Fixed issue in screenshot function that caused final bitmap to be tinted blue.
 - o Fixed issue in double-click boot feature that did not allow BIOS to boot to the correct device.
 - o Fixed issue graphical error in dropdown box.
 - o Rolled back VBM version to 0.75, removing Download OS beta feature.
 - o Fixed hang on NUC Home Page 1 and Cooling Page when temp or voltage form contained no questions.
 - o Added variable check to determine whether or not to perform OS check before starting Visual Boot Manager.
 - o Fixed logic that caused beta opt-in request to keep popping up.
 - o Fixed various GUI issues.
 - o Fixed missing temperatures and voltages in cooling performance monitor.

- o Fixed variable flags for OsIndications and BootNext to conform to strict UEFI 2.4 requirements.
- o This release includes Visual Boot Manager 1.0 with beta feature that allows a user who opts into the program to download and install a Linux-based operating system to their hard drive.

BIOS Version 0042 - FYBYT10H.86A.0042.2014.1126.1809

About This Release:

- Date: November 26, 2014
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1015 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where keyboard is lost during CentOS* installation.
- Fixed issue with headless boot in Ubuntu* 14.04.1 LTS.

BIOS Version 0041 - FYBYT10H.86A.0041.2014.1029.1807

About This Release:

- Date: October 29, 2014
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1018 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where fan speed control alert occurs when no fan is in the system.
- Fixed issue where ACPI error appears in the Event Log after installing the USB 3.0 driver.

BIOS Version 0040 - FYBYT10H.86A.0040.2014.0923.1932

About This Release:

- Date: September 23, 2014
- TXE Firmware: 1.0.5.1120
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1018 PC 14.34
 - GOP Driver: 7.2.1006

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- LAN
Option ROM: v2.59 PXE 2.1 Build 083
UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed Power button menu miss in Security jumper feature.
- Fixed issue with USB 3.0 port disable function.
- Fixed issue where F10 boot menu will show incorrect information when right-clicking.
- Added BIOS option to enable or disable **USB S5 Power**.
- Updated processor support.
- Updated TXE FW to version 1.0.5.1120.

BIOS Version 0039 - FYBYT10H.86A.0039.2014.0815.1150

About This Release:

- Date: August 15, 2014
- TXE Firmware: 1.0.4.1089
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
Option ROM: Build 1018 PC 14.34
GOP Driver: 7.2.1006
- LAN
Option ROM: v2.59 PXE 2.1 Build 083
UEFI Driver: 2.0.26
- Visual BIOS: 2.2.8
- UEFI revision: 2.3.1

New Fixes/Features:

- Updated Visual BIOS to version 2.2.8. Fixes include:
 - Fixed issue where Default BIOS Start Page would not show properly when selecting home pages.
 - Fixed hang when saving file using screenshot feature.
 - Fixed erroneous notification text when file save feature failed.
- Updated message when no bootable device is found.
- Fixed BIOS and boot issues when SO-DIMMs from certain manufacturers are installed.
- Reduced shutdown time when a USB touch screen is attached.

BIOS Version 0038 - FYBYT10H.86A.0038.2014.0717.1455

About This Release:

- Date: July 17, 2014
- TXE Firmware: 1.0.4.1089
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
Option ROM: Build 1018 PC 14.34
GOP Driver: 7.2.1006
- LAN
Option ROM: v2.59 PXE 2.1 Build 083
UEFI Driver: 2.0.26
- Visual BIOS: 2.2.7

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- UEFI revision: 2.3.1

New Fixes/Features:

- Speeded up BIOS update process - if Intel® ME version has not changed, that segment is skipped during update.

BIOS Version 0037 - FYBYT10H.86A.0037.2014.0710.1336

About This Release:

- Date: July 10, 2014
- TXE Firmware: 1.0.4.1089
- Framework BIOS Reference Code: Based on 1.3.8
- Integrated Graphics
 - Option ROM: Build 1018 PC 14.34
 - GOP Driver: 7.2.1006
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.7
- UEFI revision: 2.3.1

New Fixes/Features:

- Updated AMI build tool (VEB) to the latest version for OA3 and ITK issues.
- Added support for Intel® Ready Mode Technology.
- Updated Visual BIOS module to v2.2.7. Fixes include:
 - o Re-architected HTTP client in Visual BIOS to support network behind an HTTP proxy (i.e. corporate firewall) and handle network instability issues.
 - o Updated performance pages to support simplified needs of NUC products going forward.
 - o Fixed issue on settings page where NUC Atom theme was not an available option.
 - o Fixed issue where default theme was not NUC theme if theme could not be determined.
 - o Fixed issue where driver download feature could not be used after closing the modal and re-entering the modal.
 - o Fixed issue that caused startup hang when Default Start Page was set to Main Page.
- Fixed issue where Intel wireless adapters lose connectivity.
- Updated GOP to version 7.2.1006.
- Fixed issue where monitor will not display after S3 resume.

BIOS Version 0034 - FYBYT10H.86A.0034.2014.0513.1413

About This Release:

- Date: May 13, 2014
- TXE Firmware: 1.0.4.1089
- Framework BIOS Reference Code: Based on 1.3.6
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - GOP Driver: 7.1.1005
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.5

- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where fan speed, temperature, and voltage are not reported in BIOS after modifying duty cycles.
- Enhanced the protection of certain UEFI variables as described in Intel Security Advisory INTEL-SA-00038.
- Fixed issue with BIOS password lengths.
- Fixed Intel ME disable issue.
- Updated GOP and VBIOS.
- Fixed issue where SMBIOS values cannot be set with Intel® Integrator Toolkit.
- Fixed issue where .BMP splash logo files do not display.
- Fixed issue where TXE test fails.
- Fixed issue where system will not boot if PXE Boot is the first boot device.
- Fixed issue with Wake on USB from S4/S5.
- Fixed issue where no error beeps or blinks occur when no memory modules are installed.
- Fixed issue where Intel wireless adapters lose connectivity.
- Fixed issue with USB3/2 compatibility.

BIOS Version 0032 - FYBYT10H.86A.0032.2014.0414.1437

About This Release:

- Date: April 14, 2014
- TXE Firmware: 1.0.4.1089
- Framework BIOS Reference Code: Based on 1.3.6
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - GOP Driver: 7.1.1005
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.5
- UEFI revision: 2.3.1

New Fixes/Features:

- Modified default values associated with OS Selection options.
 - o Windows 8.x - xHCI mode is enabled
 - o Windows 7 - xHCI mode is set to "smart auto"; Legacy Boot is enabled and greyed out; Wake on USB from S4/S5 is disabled and greyed out
- Updated fan speed control.
- Updated Visual BIOS to version 2.2.5. Fixed include:
 - o Fixed issue where add-in config forms were unable to post changes to the setup browser.
 - o Fixed issue with touch input that ignored the first touch state upon starting the application.
- Added OS Selection option in Intel® Integrator Toolkit.
- Updated help text for OS Selection and USB Port.
- Added Wake on USB from S4/S5 support.
- Fixed issue where system wakes up if USB hot-plugging in S5 state.
- Fixed fan speed issue when resuming from S3.

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- Fixed issue where Intel 530 series SSD is not recognized.
- Fixed issue where BIOS auto-update feature fails behind a network proxy.
- Fixed issue where system cannot Boot to LAN.
- Fixed issue with disabling USB ports.
- Fixed [WHCK] SMBIOS HCT Test issue.
- Updated processor support.
- Changed Cx state item string to [Lowest CPU Idle Power Setting for C6].
- Updated VBIOS and GOP.
- Disabled HDMI Codec Port "C", to pass WHCK-Audio test.
- Fixed issue where HDD size is incorrect in BIOS Setup.

BIOS Version 0028 - FYBYT10H.86A.0028.2014.0306.1727

About This Release:

- Date: March 6, 2014
- TXE Firmware: 1.0.4.1089
- Framework BIOS Reference Code: Based on 1.3.4
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - GOP Driver: 7.1.1005
- LAN
 - Option ROM: v2.59 PXE 2.1 Build 083
 - UEFI Driver: 2.0.26
- Visual BIOS: 2.2.4
- UEFI revision: 2.3.1

New Fixes/Features:

- Improved fan speed control support.
- Added mouse support under [F10] Boot Menu
- Intel® Integrator Toolkit (ITK) fixes:
 - o Cannot update Setup items with ITK.
 - o Removed duplicate instance of "Unattended BIOS Configuration"
 - o Added specific project name
- Fixed USB2 port compatibility issue
- Fixed issue where USB keyboard/mouse fails after USB3 driver is installed under Legacy operating system.
- Fixed issue where USB mouse does not work in the Boot menu.
- Updated Visual BIOS to version 2.2.4. Fixes include:
 - o Fixed mapping issue for CPU Fan on NUC theme.
 - o Added support for PSU Output Voltage to Performance Monitor.
 - o Fixed video graphics display failure when display device did not support 1024x768 resolution.
 - o Fixed video corruption that sometimes occurred when entering Visual Boot Manager.
 - o Fixed cooling labels becoming selectable on Home Page for NUC theme.
 - o Fixed issue where F9 and Load Defaults could be used when admin password was set and User Access Level was not Full Access.
 - o Fixed issue where F10 and Save Changes were available when admin password was set and User Access Level was not Full Access.

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- Added support for Enable Countdown Timer and Countdown Timer value in Visual Boot Manager.
- Fixed missing voltages in Cooling Page.
- Fixed inactive Home Page 3 and Performance links.
- Added support for loading data from file for platform (e.g. EDID, Secure Boot, etc).
- Fixed issue where unsupported keys could be entered in password.
- Fixed hang when using keyboard to configure a drop down control.
- Added support for legacy boot options to Visual Boot Manager.
- Added support for booting to multiple partitions on the same device from Visual Boot Manager.
- Added support to Visual Boot Manager for booting to operating systems that do not support EFI default boot path.
- Revised Visual Boot Manager (VBM) GUI to support more descriptive icons.
- Added Network BIOS Update feature.
- Also added auto update feature that can be enabled or disabled in the Visual BIOS settings section.
- Added Driver Download feature.
- Added Intel® Visual Boot Manager feature (requires additional launcher application).
- Improved EFI variable protection for Setup variable.
- Fixed compliance test issue with Intel® Smart Connect Technology.
- Fixed issue where system hangs at POST code 02.
- Updated PXE OPROM to v2.59.
- Updated Realtek* UNDI Driver to 2.026.
- Updated TXE firmware to version 1.0.4.1089 HF4.
- Updated processor microcode.
- Added support for the F1 hotkey to display Advanced Help Text.
- Moved the OS Selection option to the top of the Boot Configuration page.
- Updated message when no bootable device is found.
- Fixed issue where system hangs at POST code 69 if Primary and Secondary Temperature input is PCH and Memory.

BIOS Version 0025 - FYBYT10H.86A.0025.2014.0207.1453

About This Release:

- Date: February 7, 2014
- TXE Firmware: 1.0.2.1060
- Framework BIOS Reference Code: Based on 1.3.2
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - GOP Driver: 7.1.1005
- LAN
 - Option ROM: v2.57 PXE 2.1 Build 083
 - UEFI Driver: 2.0.23
- Visual BIOS: 2.2.2

New Fixes/Features:

- Fixed issue that prevented installing some operating systems, such as SteamOS*.

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- Updated VBIOS to version 1007_20140128 to fix loss of HDMI audio.
- Fixed issue where Windows 7* x64 EFI operating system installation fails.
- Removed [USB3.0 (xHCI mode) support] option from BIOS Setup and enabled it by default.
- Fixed issue where USB legacy SMI support is not available.
- Fixed issue where Hard Disk Drive Password length did not match the specification.
- Fixed issue where USB 3.0 ports do not work.
- Fixed issue where items are greyed out in the Boot menu.
- Fixed issue where system auto-wakes.
- Added Event Log for CPU Thermal Trip.
- Fixed issue where Graphics item does not show up in Intel® Integrator Toolkit.
- Changed maximum number of USB mass devices from 6 to 16.

BIOS Version 0021 - FYBYT10H.86A.0021.2014.0116.1801

About This Release:

- Date: January 16, 2014
- TXE Firmware: 1.0.2.1060
- Integrated Graphics
 - Option ROM: Build 1007 PC 14.34
 - GOP Driver: 7.1.1005
- LAN
 - Option ROM: v2.57 PXE 2.1 Build 083
 - UEFI Driver: 2.0.23
- Visual BIOS: 2.2.2

New Fixes/Features:

- Fixed issue with LAN Boot order list.
- Fixed issue with S5 wake from USB keyboard/mouse.
- Fixed issue where items disappear from Boot menu.
- Fixed issue where USB cannot wake system from S5.
- Fixed issue where "UEFI: USB: USB Entry for Windows To Go" is sometimes shown in Legacy Boot Priority.
- Fixed issue where Event logo shows "Flash update failed (1)".
- Updated GOP to version 7.1.1005.
- Updated VBIOS to version 1007_20141009.
- Added support for Linux* OS installation.
- Removed USB2.0 support setup item.
- Changed [xHCI mode] to [USB3.0 (xHCI mode) support].
- Created [OS selection] setup item, and default as "Windows 8.X".
- Fixed issue with USB Legacy function.
- Fixed issue with Hard Disk Drive Password valid characters length.
- Fixed Express BIOS Flash update issue.
- Fixed issues with Unknown Devices in Windows 7*.
- Fixed issue with Linux installation.
- Fixed issue where system hangs at POST code 67.
- Fixed issue with VGA Cable output.
- Fixed issue where "Keyboard ready beep" option does not work.
- Added support for Intel® Integrator Toolkit.
- Fixed issue where BIOS update cannot change setup default.

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- Fixed issue where Unlimited Boot to Network Attempts option does not work.
- Fixed issue where disabling VT fails.
- Fixed issue where system does not boot if EFI boot is disabled.
- Fixed issue where 19V adaptor warning message is triggered.
- Fixed issue with Legacy USB Key (DOS) detection.
- Enabled UEFI and Legacy Boot so both can be enabled.
- Added support for more DMI information on System/Board Information page.
- Fixed issue where DMI tool cannot be used in DOS.
- Fixed issue with LAN Boot order list.
- Fixed issue where Boot Menu shows unnecessary UEFI LAN Boot item.
- Fixed issue where monitor is blank if both UEFI and Legacy Boot are enabled.
- Fixed issue with USB Legacy function.
- Fixed issue where Bootable Device Not Detected Function Test fails if both UEFI and Legacy Boot are enabled.
- Fixed issue where USB keyboard does not work.
- Fixed issue with USB device compatibility.
- Fixed issue where system hangs at POST code 32 after S3 resume.
- Fixed issue with Fast Boot.
- Fixed issue with incorrect Hard Disk Drive passwords.
- Fixed issue with BIOS passwords.

Known Errata:

- Some USB keys cannot be detected in BIOS Recovery mode. Format the USB key before Recovery.
- In Windows 7, the system will auto wake up after S5 if a USB key is connected.
- Information about HDMI monitor and HD Audio does not show up in Playback under Sound properties in Control Panel if Legacy Boot is enabled in BIOS. Workaround: disable Legacy Boot in BIOS Setup.

BIOS Version 0015 - FYBYT10H.86A.0015.2013.1210.1722

About This Release:

- Date: December 10, 2013
- TXE Firmware: 1.0.2.1060
- Integrated Graphics
 - Option ROM: Build 1004 PC 14.34
 - GOP Driver: 7.0.1029
- LAN
 - Option ROM: v2.57 PXE 2.1 Build 083
 - UEFI Driver: 2.0.23
- Visual BIOS: 2.2.2

New Fixes/Features:

- Initial production BIOS release

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