



## BIOS Update Release Notes

### PRODUCTS: STCK1A32WFC, STCK1A8LFC (Standard BIOS)

#### BIOS Version 0039 - FCBYT10H.86A.0039.2019.0403.1104

##### About This Release:

- Date: April 3, 2019
- TXE Firmware: 1.2.0.1149PV
- Memory Reference Code: Based on 1.02
- Integrated Graphics:
  - UEFI Driver : x32 7.2.1013  
X64 7.2.1013

##### New Fixes/Features:

- Updated BIOS code for security fixes.

#### BIOS Version 0038 - FCBYT10H.86A.0038.2018.0802.1745

##### About This Release:

- Date: August 2, 2018
- TXE Firmware: 1.2.0.1149PV
- Memory Reference Code: Based on 1.02
- Integrated Graphics:
  - UEFI Driver : x32 7.2.1013  
X64 7.2.1013

##### New Fixes/Features:

- Security enhancements.

#### BIOS Version 0037 - FCBYT10H.86A.0037.2018.0621.1350

##### About This Release:

- Date: June 21, 2018
- TXE Firmware: 1.2.0.1149PV
- Memory Reference Code: Based on 1.02
- Integrated Graphics
  - o UEFI Driver 7.2.1013

##### New Fixes/Features:

- Security enhancements.

#### BIOS Version 0036 - FCBYT10H.86A.0036.2018.0302.1436

##### About This Release:

- Date: March 02, 2018
- TXE Firmware: 1.2.0.1149PV
- Memory Reference Code: Based on 1.02
- Integrated Graphics:
  - o UEFI Driver :
    - x32 7.2.1013

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

- X64 7.2.1013

**New Fixes/Features:**

- Updated CPU Microcode (Security Advisory-00088)

**BIOS Version 0035 - FCBYT10H.86A.0035.2017.0118.1421**

**About This Release:**

- Date: January 18, 2017
- TXE Firmware: 1.2.0.1149PV
- Memory Reference Code: Based on 1.02
- Integrated Graphics
  - UEFI Driver :
    - x32 7.2.1013
    - X64 7.2.1013

**New Fixes/Features:**

- Security Enhancements

**BIOS Version 0034 - FCBYT10H.86A.0034.2016.1213.170**

**About This Release:**

- Date: December 13, 2016
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Security Enhancements.
- EBU feature added, but can only be used with BIOS version FC0030 and later.

**BIOS Version 0033 - FCBYT10H.86A.0033.2016.1103.1424**

**About This Release:**

- Date: November 03, 2016
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Security Enhancements.

**BIOS Version 0032 - FCBYT10H.86A.0032.2016.0831.1658**

**About This Release:**

- Date: August 31<sup>st</sup>, 2016
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

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

- Security Enhancements.

**BIOS Version 0031 - FCBYT10H.86A.0031.2015.1027.1417**

**About This Release:**

- Date: October 27, 2015
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Fixed issue where remote operation when the Compute Stick is not attached to a monitor does not work with the Ubuntu SKU.

**BIOS Version 0030 - FCBYT10H.86A.0030.2015.0924.1201**

**About This Release:**

- Date: September 24, 2015
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Improved Bluetooth feature:
  - Added PIN code support when processing auto-connect
  - Improved device compatibility
- Fixed issue where power LED stays on when shutting down Windows 10.
- Fixed issue where Brightness2 Test in Windows 10 HLK test fails.
- Fixed issue with HLK WindowsToGo UEFI USB Class Entry Test.
- Fixed graphics corruption issue in the F7 and F10 menus.

**BIOS Version 0028 - FCBYT10H.86A.0028.2015.0828.1917**

**About This Release:**

- Date: August 28, 2015
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Fixed issue where Windows\* time does not stay in sync after S5.
- Added beta feature: Bluetooth keyboards can be paired in BIOS so that they work during POST and within BIOS Setup. See [Using Bluetooth\\* Keyboards During POST and in BIOS Setup](#) for instructions on using this feature and for a list of tested Bluetooth keyboards. Comments on this beta feature are welcome on the [Intel NUC Support Community](#).

**BIOS Version 0027 - FCBYT10H.86A.0027.2015.0810.1034**

**About This Release:**

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

- Date: August 10, 2015
- TXE Firmware: 1.2.0.1149PV
- Framework BIOS Reference Code: Based on 1.2.2
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Updated reference code to version 1.2.2.
- Updated TXE firmware 1.2.0.1149 PV version.
- Changed the prompt for F8 recovery to show Windows 8.1/10.
- Disabled MMC 4.5 HS200 support.

<b>BIOS Version 0025 - FCBYT10H.86A.0025.2015.0717.1447</b>
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**About This Release:**

- Date: July 17, 2015
- ROM Image 8MB Checksum: 0x4E8E
- TXE Firmware: 1.1.1.1133PV
- Framework BIOS Reference Code: Based on 1.1.7
- GOP x32 Driver : 7.2.1013
- GOP x64 Driver : 7.2.1013

**New Fixes/Features:**

- Updated processor support.
- Updated TXE firmware to version 1.1.2.1133.
- Updated GOP to version 7.2.1013.
- Updated BIOS to display warning message if Compute Stick is powered via USB port, then shut down after 30 seconds.
- Fixed issue USB boot is still an option in the F10 boot menu, when USB boot is disabled in BIOS setup.
- Fixed issue system cannot enter BIOS when using the "UEFI Firmware Settings" from WinRE.
- Changed BIOS setup option for Select Operating System to show Windows 8.1/10.

<b>BIOS Version 0024 - FCBYT10H.86A.0024.2015.0522.1757</b>
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**About This Release:**

- Date: May 22, 2015
- TXE Firmware: 1.1.1.1120
- Framework BIOS Reference Code: Based on 1.1.7
- GOP x32 Driver : 7.2.1008
- GOP x64 Driver : 7.2.1008

**New Fixes/Features:**

- Moved Ubuntu recovery option from the F8 hotkey to the F10 boot menu on STCK1A8LFC SKU.
- Fixed issue where operating system does not load when USB hub is connected.
- Changed the F2 Hotkey string to "Enter Intel Compute Stick BIOS".

<b>BIOS Version 0022 - FCBYT10H.86A.0022.2015.0430.1350</b>
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**About This Release:**

- Date: April 30, 2015

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- TXE Firmware: 1.1.1.1120
- Framework BIOS Reference Code: Based on 1.1.7
- GOP x32 Driver : 7.2.1008
- GOP x64 Driver : 7.2.1008

**New Fixes/Features:**

- Added F8 hotkey option to trigger Ubuntu recovery on STCK1A8LFC SKU.
- Fixed issue where MSINFO32 does not show System Manufacturer or System Model correctly.
- Fixed issue where "Processor Family x Model y Stepping z" do not show correctly.
- Fixed issue where onboard eMMC storage appears in the F7 list as "Unknown Device".
- Fixed issue where SDCARD appears in the F7 list as "Unknown Device".
- Fixed issue where F8 prompt for recovery still displays when option is disabled in BIOS.
- Updated Boot Drive Order option so that onboard eMMC device is always the first boot device by default.
- Added BIOS options to enable and disable Bluetooth and Wireless LAN.
- Fixed issue where USB device does not work in BIOS when USB is disabled.

<b>BIOS version 0018 - FCBYT10H.86A.0018.2015.0330.1117</b>
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**About This Release:**

- Date: March 30, 2015
- TXE Firmware: 1.1.1.1120
- Framework BIOS Reference Code: Based on 1.1.7
- GOP x32 Driver : 7.2.1008
- GOP x64 Driver : 7.2.1008

**New Fixes/Features:**

- Initial production BIOS release.

**IMPORTANT: For samples that have BIOS version 0012 installed, YOU MUST FIRST UPDATE TO INTERIM BIOS VERSION FC7018**

1. Copy the two .BIO files - FC7018.BIO and FC0018.BIO - to the root directory of a USB portable device.
2. Connect a USB hub (with at least 3 ports) to the USB port on the Intel Compute Stick.
3. Connect a USB keyboard and mouse to the USB hub.
4. Connect the USB portable device to the USB hub.
5. Plug the Intel Compute Stick into an HDMI display.
6. Plug power into the Intel Compute Stick. (The Compute Stick will auto power on.)

**Step One - update to interim version FC7018**

1. Press the F7 key when prompted during boot to enter BIOS update mode.
2. Select the USB device from the list of devices shown.
3. Select to update the BIOS to FC7018.

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4. The BIOS will update and then reboot.

**Step Two - update to current version FC0018**

1. Press the F7 key when prompted during boot to enter BIOS update mode. Note: if unable to enter BIOS update mode again via F7, remove power from the Compute Stick, then plug power back in and try again.
2. Select the USB device from the list of devices shown.
3. Select to update the BIOS to FC0018.
4. The BIOS will update and then reboot.
5. Press F2 to enter BIOS setup.
6. Press F9 to set BIOS defaults.
7. Correct the date and time if needed.
8. Press F10 to save changes and exit.

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