

# Engineering & Application Note

<b>Issue Date:</b>	August '16
<b>Subject:</b>	Installing <i>i<sup>3</sup></i> CMini, <i>i<sup>3</sup></i> CX, <i>i<sup>3</sup></i> E, <i>i<sup>3</sup></i> DX, <i>i<sup>3</sup></i> X Firmware
<b>Relevant Products:</b>	<i>i<sup>3</sup></i> Configurator and <i>i<sup>3</sup></i> CMini, <i>i<sup>3</sup></i> CX, <i>i<sup>3</sup></i> E, <i>i<sup>3</sup></i> DX, <i>i<sup>3</sup></i> X Firmware v12.92 or later

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## Article Description

The *i<sup>3</sup>*CMini, *i<sup>3</sup>*CX, *i<sup>3</sup>*E, *i<sup>3</sup>*DX, *i<sup>3</sup>*X firmware files are much larger than the previous *i<sup>3</sup>* series firmware files. *i<sup>3</sup>* Configurator does not support firmware or operating system loading from the firmware update wizard for the relevant products. In order to make the update process fast, the firmware for *i<sup>3</sup>*CMini, *i<sup>3</sup>*CX, *i<sup>3</sup>*E, *i<sup>3</sup>*DX, *i<sup>3</sup>*X is loaded via a micro SD or USB flash drive. The following steps outline how to do this. As with all *i<sup>3</sup>*'s the process of updating the firmware erases the application code. Users may need to save the application using the backup function or load to pc before implementing the firmware update.

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## Article Details

### *Firmware Upgrade Procedure*

1. Download the firmware update zip file
2. Extract the files contained in the zip file and copy them to the root directory of a *FAT16* or *FAT32* formatted USB FLASH drive or micro SD card. Prior to executing the upgrade on an in-service *i<sup>3</sup>*CMini, *i<sup>3</sup>*CX, *i<sup>3</sup>*E, *i<sup>3</sup>*DX, *i<sup>3</sup>*X it may be required to perform a "Make Clone" operation so that the unit can be returned to its exact state following the update. This is an optional step using a micro SD card executed from the System Menu.
3. Plug the card into a Powered-on *i<sup>3</sup>*. Ensure that the new card is the only one plugged into the *i<sup>3</sup>*.
4. Press and Hold the System button on the *i<sup>3</sup>* for approximately 6 seconds. A Boot Installer screen will appear.

5. Touch the Install Boot loader button. This will update all files (Firmware, FPGA, and Boot Loader & OS).
6. Press OK when prompted.
7. Reboot the power. Following the reboot, the update is complete.
8. If a clone was made prior to the update, perform a “Load Clone” operation using a micro SD drive executed from the System Menu. The *i<sup>3</sup>CMini*, *i<sup>3</sup>CX*, *i<sup>3</sup>E*, *i<sup>3</sup>DX*, *i<sup>3</sup>X* application and all register contents will be restored to their pre-update state.