



COTTON CANDY USER MANUAL

V1.0 –July 2012

Copyright © 2012 FXI Technologies

IMPORTANT

Cotton Candy and Cstick are registered trademarks of FXI Technologies AS. All other registered trademarks are the property of their respective owners.

FXI Technologies reserves the right to change any of the documentation and product specifications at any time without prior warning.

Use only with listed ITE.

FORUMS AND FEEDBACK

Any issues or problems with Cotton Candy may be reported at: [http:// issues.cstick.com](http://issues.cstick.com)

For any other questions and information about Cotton Candy please visit the discussion forum at: [http:// www.cstick.com/ forum .php](http://www.cstick.com/forum.php)

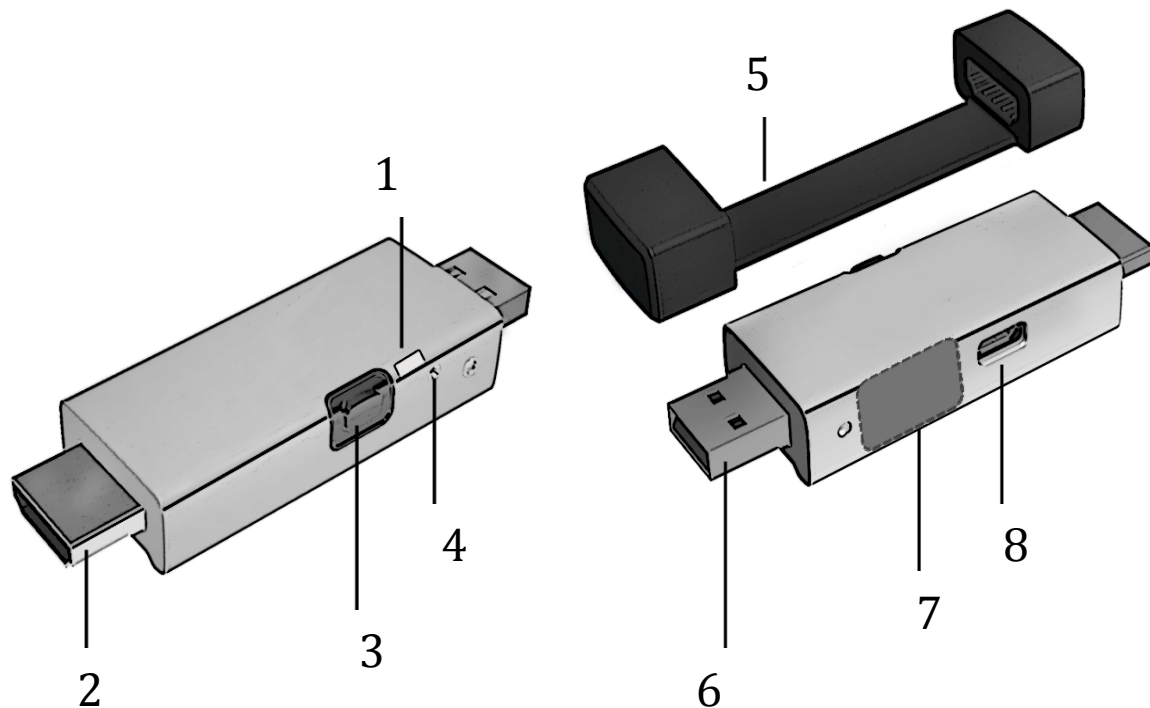
TABLE OF CONTENTS

Technical specifications	4
Hardware Overview	5
Quick start Guide	5
Preparing a microSD card with an OS/firmware image	6
Screens & peripherals	9
HDMI Output	9
USB Peripherals	9
Bluetooth Connectivity	9
Wifi Connectivity	9

TECHNICAL SPECIFICATIONS

CPU	Dual-core ARM Cortex-A9
Graphics	Quad-core ARM Mail 400MP
Main Memory	1 GB
Display	1080p HD
Storage	Micro SD
Hardware Connectors	USB (male, type A) for power supply and Any Screen computing
	HDMI (male) for audio/video output
	Micro USB (female) for peripherals
Connectivity	Wifi (2.4 Ghz)
	Bluetooth 2.1 + EDR
Operating Temperature	0°C to +35°C
Dimensions	80mm x 24mm x 12mm

HARDWARE OVERVIEW



1. LEDs (boot, connectivity)

2. HDMI connector

3. Bluetooth quick-connect button

4. Reset button

5. "Double-cap" protective cover

6. USB connector – *Must be connected to power Cotton Candy*

7. MicroSD slot for memory card containing the Cotton Candy OS.

This slot is covered to prevent device malfunction in case of Electrostatic Discharge ("ESD"). Please keep the sticker attached while operating the device.

8. MicroUSB host connector for USB Peripherals

QUICKSTART GUIDE

The MicroSD slot **(7)** must contain a card featuring a valid OS image.

Connect the HDMI connector **(2)** to an HDMI compatible TV/screen.

Connect any USB peripherals to the micro-USB host port **(8)**. This may require a powered USB hub to provide sufficient power for the peripherals.

Connect the Cotton Candy USB connector **(6)** to a USB port providing power for the device.

The device will boot up to the default OS and be ready for use.

PREPARING A MICROSD CARD WITH AN OS/FIRMWARE IMAGE

To start using Cotton Candy it is necessary to prepare a microSD card containing the firmware / OS for the device.

This requires a computer with:

- Internet access for downloading the compressed image
- Support for decompressing zip files
- At least 8 gigabytes of file storage for the uncompressed image
- A card reader/writer compatible with microSD cards
- Software for writing the image to microSD (Cstick Virtualization Client may be used for this)

Downloading the image

Firmware images for Cotton Candy can be downloaded from: download.cstick.com

The images are roughly 2 gigabytes in size (compressed) so a fast internet connection is recommended.

Note: The images will currently only work with 8 gigabyte microSD cards.

Decompressing / unpacking the image

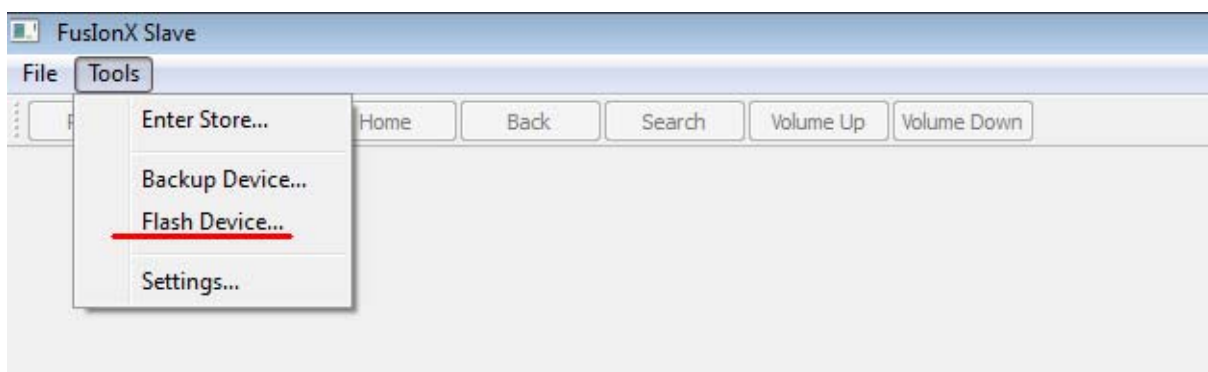
In order to minimize download times the images have been compressed using zip and must therefore be decompressed after download.

Most modern operating systems have built-in support for decompressing zip-files making it possible to simply click on the compressed file and copy the 8 gigabyte SD image to a separate location on the computer. For older versions of Windows without built-in zip support it is possible to use a free decompression tool such as 7-zip [<url>](#)

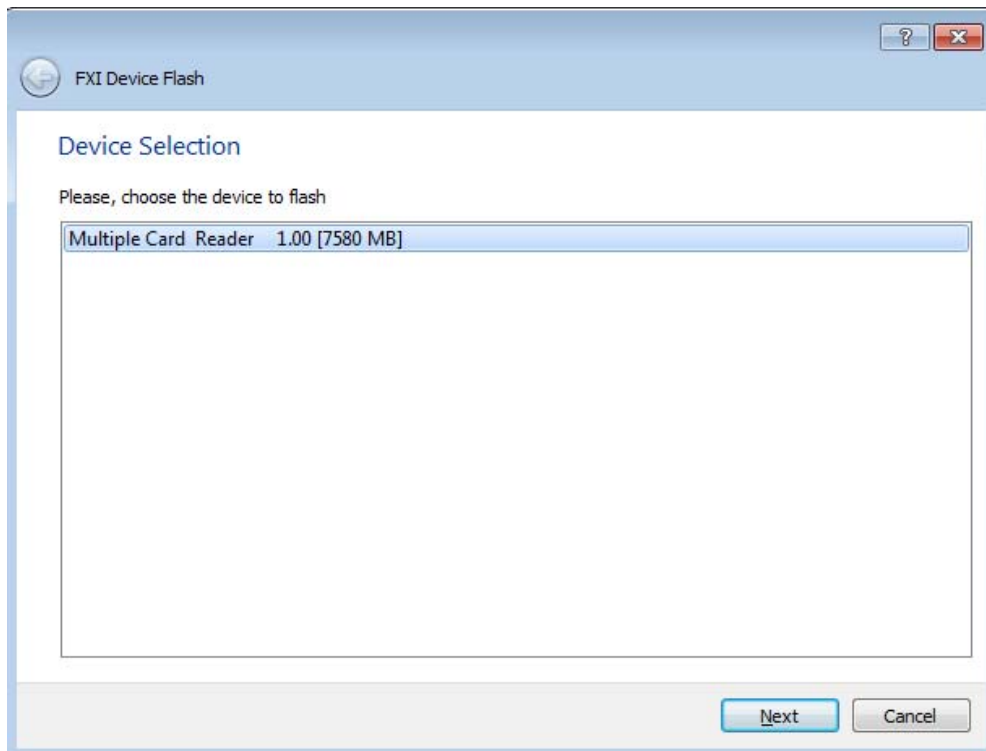
Writing the image to microSD

This can be done with any standard software for block-level access to the microSD card.

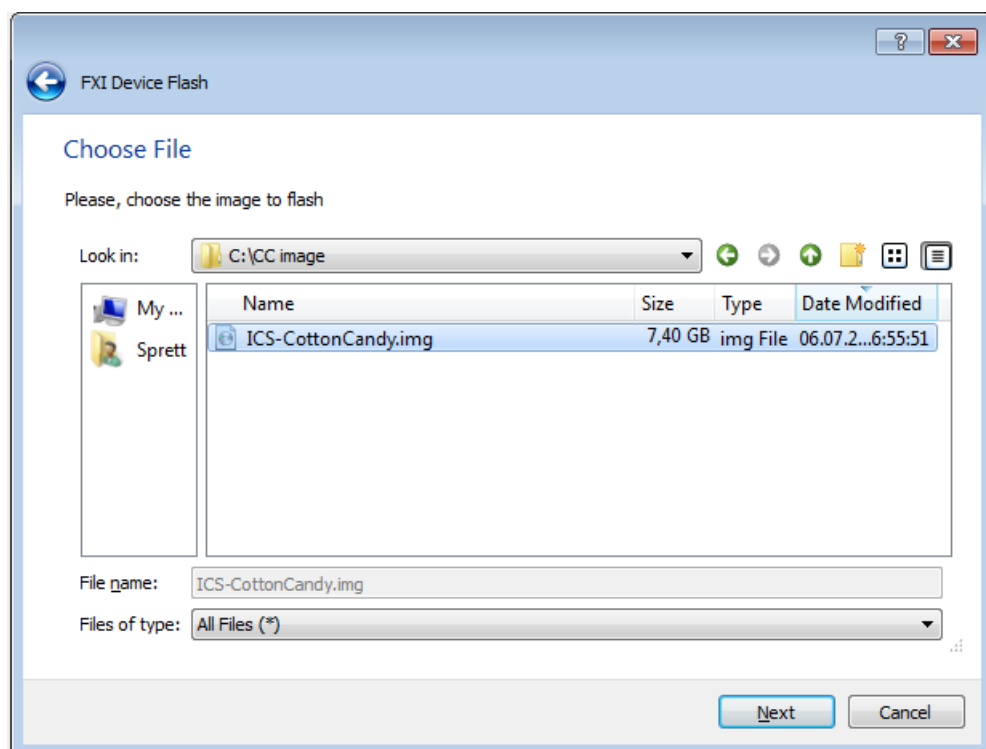
The Cstick Virtualization Client (CVC) provides this functionality for Windows, Mac and Linux computers and can be downloaded from download.cstick.com



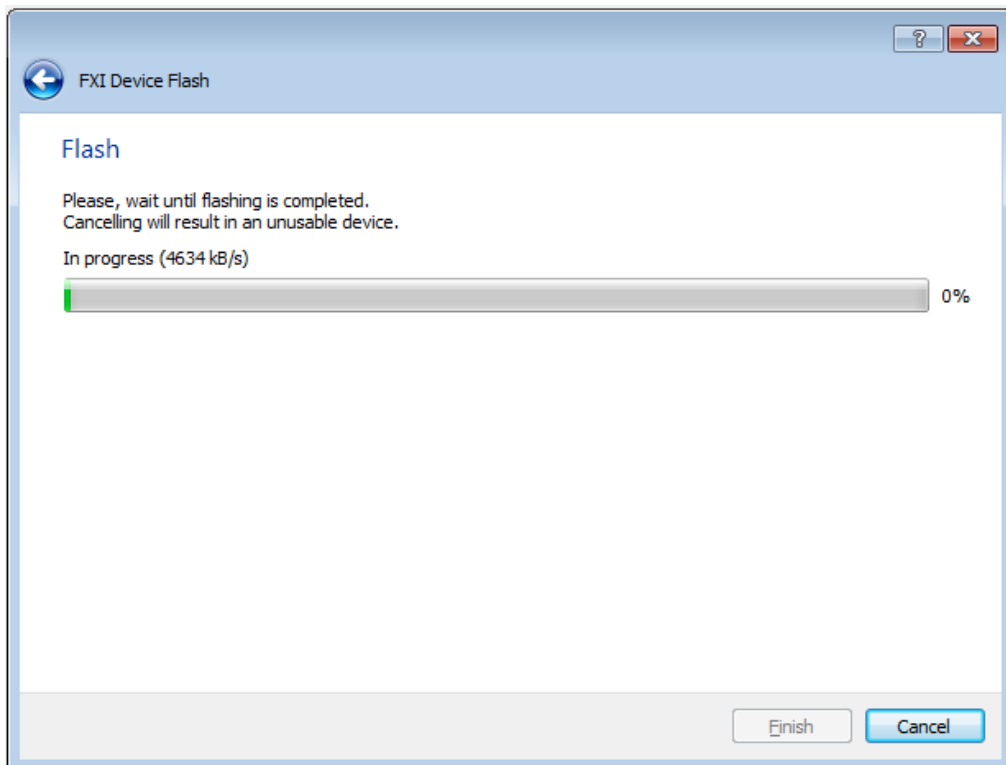
After starting CVC select the “Flash Device” option from the Tools menu.



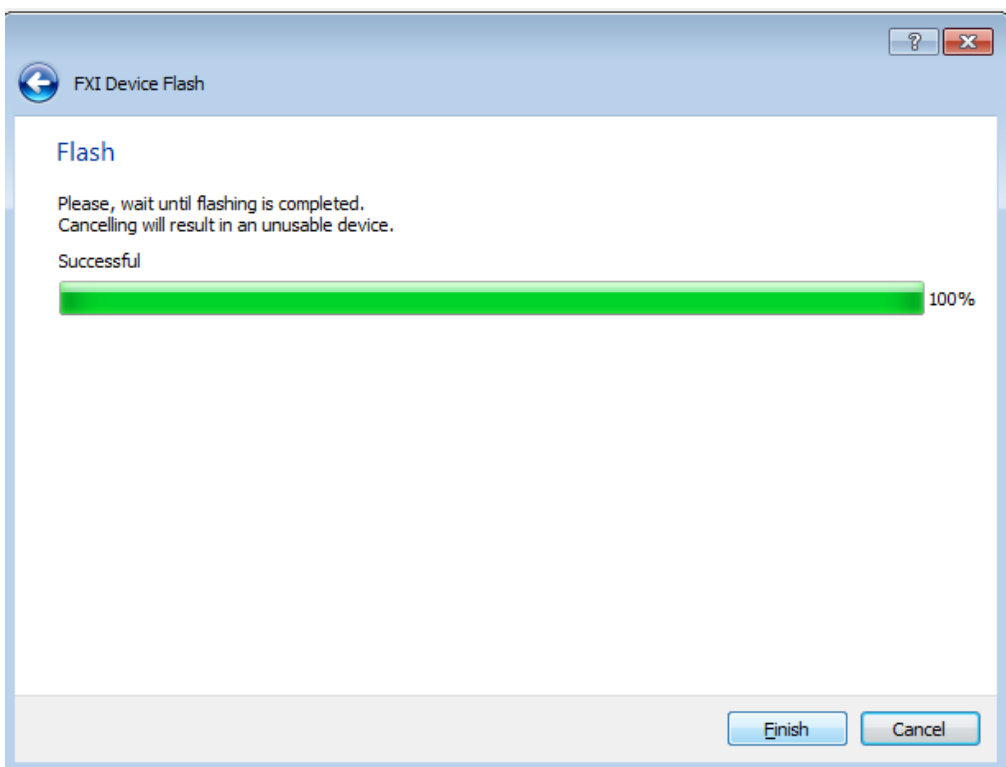
Select the reader/writer that the microSD card has been inserted in and then press “Next”



Select the image file to write and press “Next”



CVC shows the progress of the writing operation.



When this reaches 100% the microSD card can be removed from the reader and be inserted into Cotton Candy.

SCREENS & PERIPHERALS

Important: The USB male connector of Cotton Candy must be plugged into a USB socket to power the device. Cotton Candy does not draw power from any other peripheral connector.

HDMI OUTPUT

Cotton Candy can be connected to TVs, screens and other A/V equipment through the HDMI connector and supports 1080p HD resolution. Audio is also provided over HDMI.

USB PERIPHERALS

Peripherals such as keyboards, mice, touch panels and other USB devices can be connected through Cotton Candy's micro-USB host port.

A powered USB hub should be used to connect devices that do not have a dedicated power supply. Cotton Candy will not be able to supply sufficient power for most devices over the micro-USB host port.

Cotton Candy relies on standard OS functionality for USB peripherals and can be used with any device which is supported by the currently running OS / drivers. This might mean that some devices are only supported under one of the OSes. The best way to check whether a particular USB device is supported is to consult the official documentation for the selected OS, or simply connecting it to see whether it works.

BLUETOOTH CONNECTIVITY

Cotton Candy relies on standard OS functionality for Bluetooth connectivity and can be used with any devices, such as keyboards, mice and headsets, that are supported by the currently running OS.

This means that some devices may not be supported under all operating systems.

The best way to check whether a particular Bluetooth device is supported is to consult the official documentation for the device or simply attempt to connect it to see if it works.

WIFI CONNECTIVITY

Cotton Candy supports 2.4GHz wireless network connectivity. Network configuration is performed through the standard mechanisms in the currently running OS.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.