

FLHubTool for Firmware and EEPROM update   
User Guide

FL5000/FL6000 USB 3.0 Hub Controller Series.

Revision History

|  |  |  |
| --- | --- | --- |
| Revision | Date | Comment |
| 0.1 | 24 April 2015 | Initial release |
| 1.0 | 21 August 2015 | Add command line mode. |
| 1.1 | 16 November 2015 | GUI update. |
| 1.2 | 3 August 2015 | Installation update. |
| 1.3 | 30, January, 2017 | Update header/footer |

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# General Overview

The FL5000/FL6000 is Fresco Logic’s USB 3.0 hub device. We have a customize EEPROM for specific device setting and performance optimization, once you need to update your EEPROM setting, you can use this FLHubTool to make it happen.

This document will introduce how to update EEPROM inside of it.

# System Environment

**Software requirements:**

1. Operating Systems – **Microsoft® Windows® 8 or later**

**Hardware requirements:**

1. Machine with **USB 3.0 xHCI Host Controller**.( Please use Microsoft USB 3.0 inbox driver to prevent programming issue. )

# Package Components

The following table lists the FLHubTool components.

|  |  |
| --- | --- |
| Component | Explanation |
| 86\FLHubTool.exe | The FLHubTool for x86 Windows systems. |
| x64\FLHubTool.exe | The FLHubTool for x64 Windows systems. |

# Operations

We have two modes for regular operation, GUI mode and Command.

### GUI mode

You can just click the FLHubTool.exe, then it will display like normal windows application.



We have three basic functions as following:

Get Version button is for getting current the EEPROM version of this HUB device.



Save button is for saving current EEPROM data from HUB device to binary file.

Load button is for loading binary file and program it to the EEPROM of this HUB device.

### Command mode

Please open the command prompt with Administrator privilege to prevent unexpected error.

Also make sure your FL5000/FL6000 is connected well in USB 3.0 host.

Or you will get the following error message.



We provide two functions in command mode

#### Get current EEPROM version in this device

Command Format : FLHubTool –v or FLHubTool -V



#### Update EEPROM binary to this device.

Command Format : FLHubTool <BinaryFileName.bin>



# Using customize HUB VID/PID.

1. Disable driver signature enforcement check in Windows.

<https://www.howtogeek.com/167723/how-to-disable-driver-signature-verification-on-64-bit-windows-8.1-so-that-you-can-install-unsigned-drivers/>

1. Modify FLHubTool.ini file to your own VID/PID

This file is generated at first time when you are running FLHubTool.exe

If you don’t have this .ini file in the same folder, tool will generate default one for you.

Then you can modify the FLHubTool.ini to your own VID/PID as following:

Also, you have to make sure your product is FL5000/FL5001/FL5002 series.

// FL5000 Series.

//

UnknownFL5000HubUsb3VendorId : 0x0000

UnknownFL5000HubUsb3ProductId : 0x0000

UnknownFL5010HubUsb2VendorId : 0x0000

UnknownFL5010HubUsb2ProductId : 0x0000

// FL5001 Series.

//

UnknownFL5001HubUsb3VendorId : 0x0000

UnknownFL5001HubUsb3ProductId : 0x0000

UnknownFL5011HubUsb2VendorId : 0x0000

UnknownFL5011HubUsb2ProductId : 0x0000

// FL5002 Series.

//

UnknownFL5002HubUsb3VendorId : 0x0000

UnknownFL5002HubUsb3ProductId : 0x0000

UnknownFL5012HubUsb2VendorId : 0x0000

UnknownFL5012HubUsb2ProductId : 0x0000

After reopen the FLHubTool.exe, it will load the .ini configuration and make it workable.

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