MCS7780 Mac OSX Serial IrDA Application User Guide

Revision 1.10
April 22, 2014

Revision History

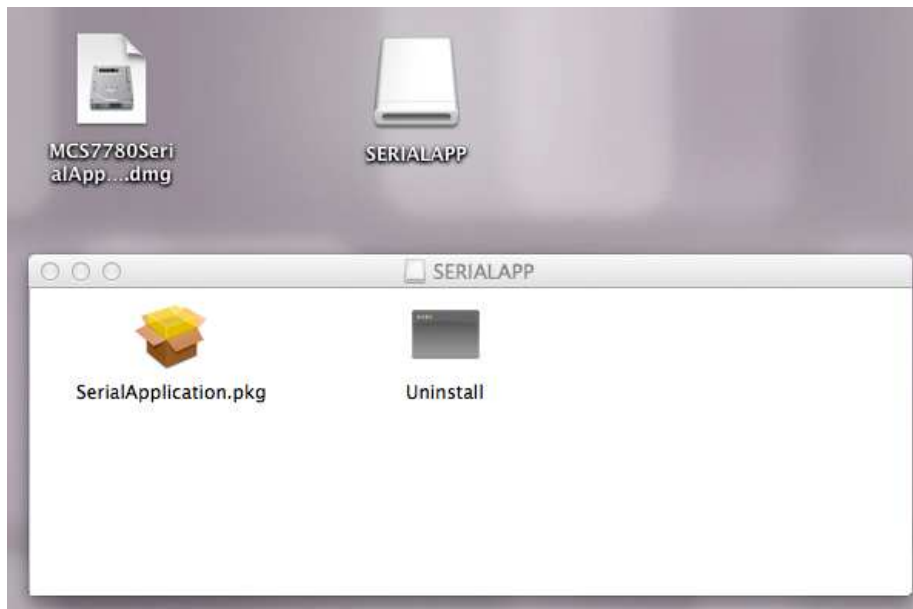| Revision	Date	Description
1.00	2012/03/12	Initial release.
1.10	2014/04/22	Added the description of application uninstall procedure.

Contents

1. Overview

ASIX MCS7780 Serial IrDA application is used to test MCS7780 IrDA device on Mac OSX system. It can read or write data from/to the MCS7780 device, or set its baud rate speed.
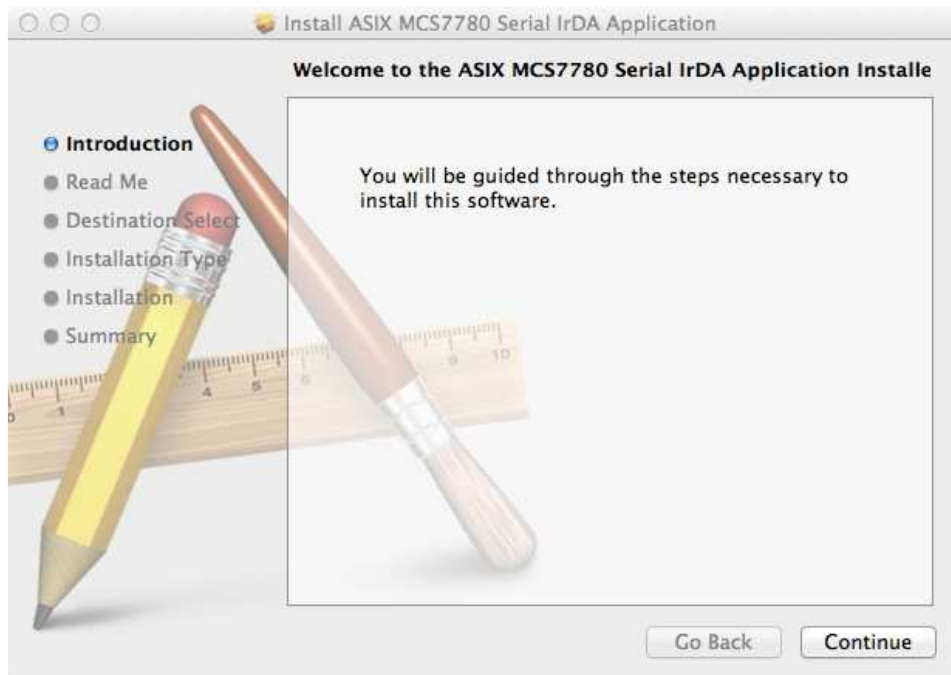
2. Installation Procedures

The installation package of MCS7780 Serial IrDA application is included in the '**MCS7780SerialApplication.dmg**' file.
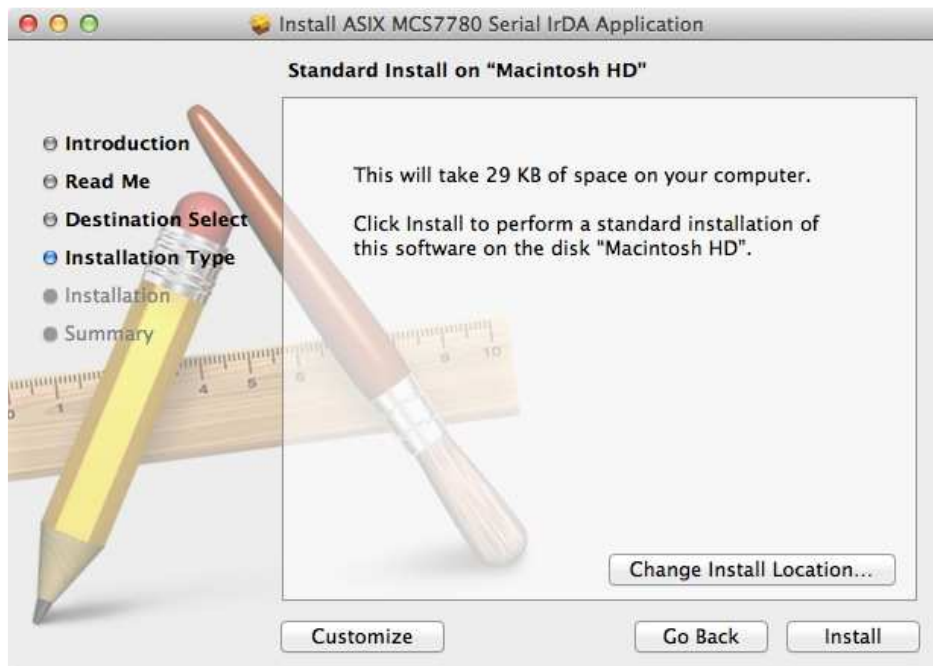
Step 1. Click '**MCS7780SerialApplication.dmg**', the following '**SERIALAPP**' disk will appeared on the desktop. (The 'SERIALAPP' disk will be auto-removed after rebooting or manual ejected by dragging it to the 'Trash' icon.)

Step 2. Click the '**SerialApplication.pkg**' in the opened disk, the install dialog will appear. Click the [Continue] button to start the installation and follow the instructions to continue the installation.

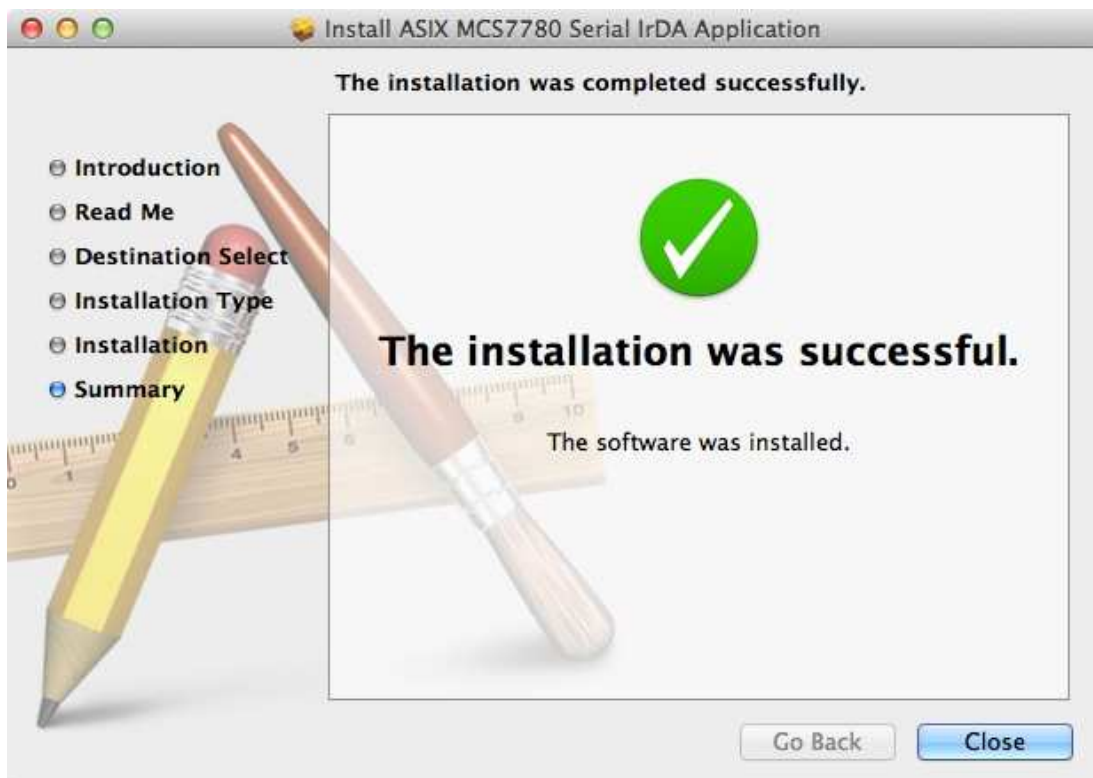**Step 3.** Click the [Install] button to continue installation

Step 4. If the following dialog appears, input the password and then click the [Install Software] button.

Step 5. Installation has completed. Click the [Close] button to leave it.
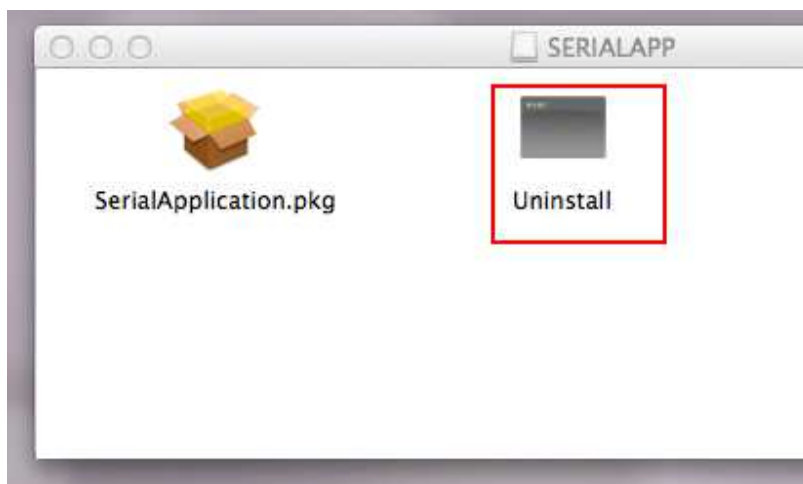
3. Uninstallation Procedure

ASIX MCS7780 Serial IrDA application is a single file in the 'Application' folder. So the uninstallation procedure is just to delete the 'serialIrDA' program from the 'Application' folder.

Another way is execute the uninstall program which in '**SERIALAPP**' disk.

Note: Before uninstall MCS7780 driver, please close 'serialIrDA' application first.

4. Usage

ASIX MCS7780 Serial IrDA application is a command line tool. It's used in the terminal environment. Mac OS X supports a Terminal.app program utility. The user can open it in the Utilities directory.

If the installation package is executed, the application is installed in the '/Application/serialIrDA' location. The user can execute it in the command '/Application/serialIrDA' or './serialIrDA' if the current location is in the '/Application' directory.

4-1 Get Help

ASIX MCS7780 Serial IrDA application can show the help message to user. The command parameter is -h or --help.

```
Last login: Fri Feb 17 17:12:19 on ttys000
asixteki-MacBook-Pro:~ asix$ /Applications/serialIrDA -h


For Reading Frames:

serialIrDA -r  -n<No. of packets>

Argument                Command Options        Default value
--------                ------- -------        -------------
No. of packets          -n      1 .... 10000   10

For Writing Frames:

SerialIrDA -w  -n <No. of packets>  -b <Buffer Size>  -p <pattern>
Argument                Command Options        Default value
--------                ------- -------        -------------
No. of packets          -n      1 .... 10000   10
Buffer Size             -b      1 .... 2048    256
Pattern                 -p      Any string     ASIX

For Setting BaudRate

serialIrDA -b <BaudRate>
Argument                Command Options        Default value
--------                ------- -------        -------------
BaudRate                -b      As listed below 9600
BaudRate:       2400    9600    19200   38400   57600   115200
                576000  1152000 4000000

CAUTION: If you don't specify all the arguments the default will be considered, for example
 if you don't specify timeout while reading the default value 5000 will be considered
wrong command; This should not happen
Closing IrDA serial port
```

4-2 Set Baud Rate

ASIX MCS7780 Serial IrDA application can set MCS7780 baud rate speed. The command parameter is -b. The valid baud rate is 2400, 9600, 19200, 38400, 57600, 115200, 576000, 1152000 or 4000000. If it's not specified, the default value is 9600.

```
serialIrDA -b <BaudRate>
Argument    Command   Options          Default value
--------    -------   -------          -------------
BaudRate    -b        As listed below  9600
BaudRate: 2400 9600 19200       38400      57600      115200
          576000    1152000  4000000
```

4-3 Read IrDA Data

ASIX MCS7780 Serial IrDA application can read data from MCS7780. The command parameter is -r. The sub-parameter -n can specify the number of packets to read.
The valid number is between 1 and 10000. If it's not specified, the default value is 10.

```
For Reading Frames:

serialIrDA -r  -n<No. of packets>

Argument        Command  Options     Default value
--------        -------  -------     -------------
No. of packets  -n       1 .... 10000 10
```

4-4 Write IrDA Data

ASIX MCS7780 Serial IrDA application can write data to MCS7780. The command parameter is -w. The sub-parameter -n can specify the number of packets to write, -b can specify the writing buffer size, and -p can specify the writing pattern string. If they are not specified, the default values are used.

```
For Writing Frames:

SerialIrDA -w  -n <No. of packets>  -b <Buffer Size>  -p <pattern>
Argument          Command Options      Default value
--------          ------- -------      -------------
No. of packets    -n      1 .... 10000 10
Buffer Size       -b      1 .... 2048  256
Pattern           -p      Any string   ASIX
```

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