ASIX AX88178 and AX88772B/772A/760/772 Mac OS X 10.5/10.6 Drivers Installation Guide

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Revision History

Revision	Date	Description
1.00	2010/08/12	Initial release.
1.10	2011/04/27	Modified the script files in Appendix.

Contents

1   Description

This document contains the installation and uninstallation information of ASIX's AX88772B/772A/760/772 and AX88178 Mac OS X 10.5/10.6 drivers.

When installing ASIX's AX88772B/772A/760/772 or AX88178 driver, the driver setup program will execute a preflight and postflight scripts to remove the corresponding Apple's default AX88772B/772A/760/772 USB-to-LAN driver "AppleUSBEthernet.kext" or AX88178 USB-to-LAN driver "AppleUSBGigEthernet.kext" before installs ASIX's driver. The script files will do the following operations in order.

(1) Create a "/asix_temp" folder.

(2) Backup Apple's default driver ("AppleUSBEthernet.kext" or "AppleUSBGigEthernet.kext") from /Syatem/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/" folder to "asix_ temp" folder.

(3) Unload and remove Apple's default driver from /Syatem/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/" folder.

(4) Set the permission access mode of Apple's default driver.

(5) Update the access and modification times of ASIX's AX88772B/772A/760/772 or AX88178 driver.
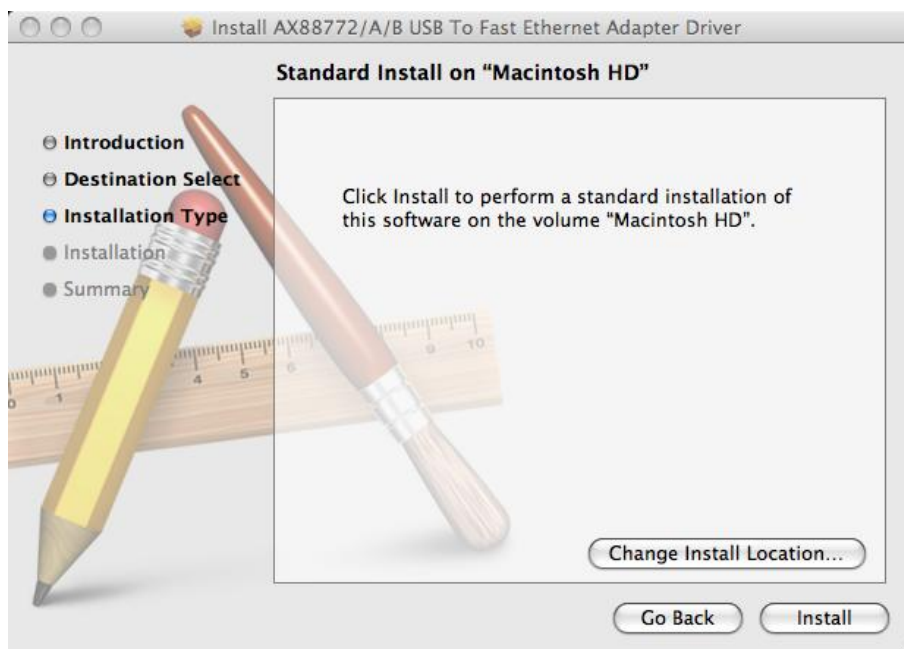

When uninstalling ASIX's AX88772B/772A/760/772 or AX88178 driver, the driver uninstallation script will remove ASIX's driver and then re-install the corresponding Apple's default AX88772B/772A/760/772 or AX88178 USB-to-LAN driver back to the system. The uninstallation script will do the following operations in order:

(1) Copy Apple's default driver from "/asix_temp" folder to "/Syatem/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/" folder.

(2) Remove "asix_temp" folder.

(3) Unload and remove ASIX's AX88772B/772A/760/772 or AX88178 driver.

(4) Set the permission access mode of Apple's default driver.

(5) Set Apple's default driver files to be owned by root/wheel.

(6) Update the access and modification times of Apple's default driver.

2 AX88772B/772A/760/772 Driver Installation

Below is an example ASIX's AX88772B/772A/760/772 driver installation procedure. This example assumes the ASIX's driver setup program is named "AX88772.pkg".

Step 1: Click the "AX88772.pkg", the following driver setup dialog will appear.

Step 2: Click the [Install] button to start the installation operation.

3   AX88772B/772A/760/760 Driver Uninstallation

Below is an example ASIX's AX88772B/772A/760/772 driver uninstallation procedure. This example assumes the ASIX's driver uninstallation script is named "AX88772_772A_772B_760_uninstall".

Step Execute the uninstallation script file "AX88772_772A_772B_760 _uninstall" under Terminal mode to start the
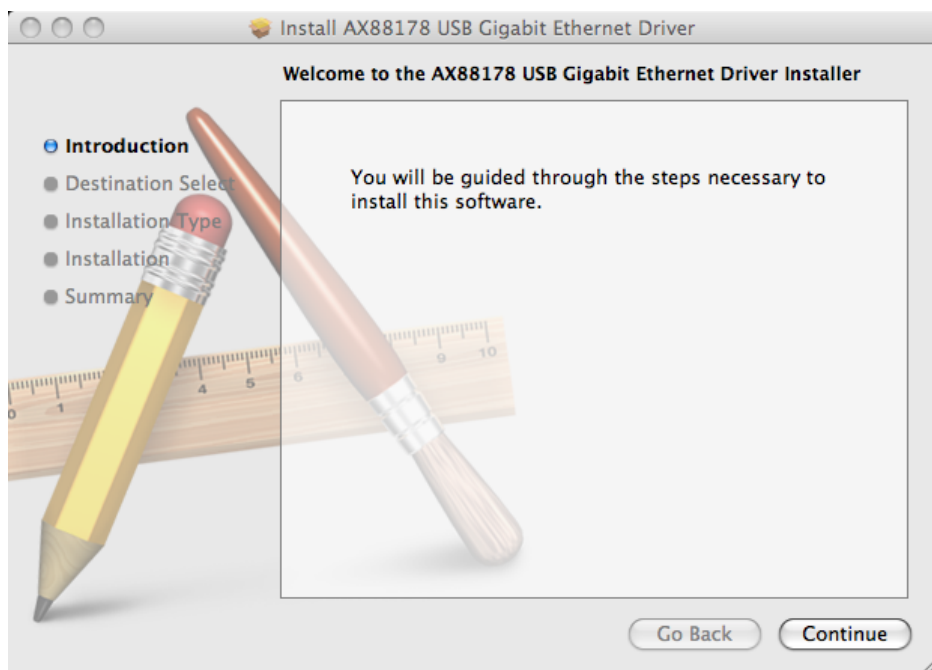1:   uninstallation operation. (Refer to below figure)

```
Last login: Wed Aug  4 14:29:10 on ttys000
tests-macbook-air:~ test$ cd Desktop/Driver\ uninstall/
tests-macbook-air:Driver uninstall test$ ./AX88772_772A_772B_760_uninstall
kextunload: unload kext /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext succeeded
tests-macbook-air:Driver uninstall test$ []
```

Note: If the AX88772B/772A/760/772 dongle is not plugged in during uninstallation operation, the driver's unload command will fail and the warning message will appear. But the uninstallation operation still can complete successfully.

4   AX88178 Driver Installation

Below is an example ASIX's AX88178 driver installation procedure. This example assumes the ASIX's driver setup program is named "AX88178.pkg".

Step 1:   Click the "AX88178.pkg", the following driver setup dialog will appear.

Step 2:   Click the [Install] button to start the installation operation.

5 AX88178 Driver Uninstallation

Below is an example ASIX's AX88178 driver uninstallation procedure. This example assumes the ASIX's driver uninstallation script is named "AX88178_uninstall".

Step 1: Execute the uninstallation script file "AX88178 _uninstall" under Terminal mode to start the uninstallation operation. (Refer to below figure)

```
Last login: Wed Aug  4 14:12:02 on ttys000
tests-macbook-air:~ test$ cd Desktop/Driver\ uninstall/
tests-macbook-air:Driver uninstall test$ ./AX88178_uninstall
kextunload: unload kext /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext succeeded
tests-macbook-air:Driver uninstall test$ []
```

Note: If the AX88178 dongle is not plugged in during uninstallation operation, the driver's unload command will fail and the warning message will appear. But the uninstallation operation still can complete successfully.

Appendix A   AX88772/772A/772B/760 Script Files

Below are preflight and postflight script files:

```
#!/bin/sh
#filename:autopack.sh


if [ -d  /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBEthernet.kext ]
then
sudo mkdir /asix_temp
sudo cp -R /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBEthernet.kext
/asix_temp/AppleUSBEthernet.kext
sudo kextunload
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBEthernet.kext
sudo rm -rf /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBEthernet.kext
sudo chmod -R 755 /asix_temp/AppleUSBEthernet.kext
sudo chown -R root:wheel /asix_temp/AppleUSBEthernet.kext
fi

if [ -d  /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext ]
then
sudo kextunload /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext
sudo rm -rf /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext
fi

if [ -d /System/Library/Extensions/AppleUSBEthernet.kext ]
then
sudo kextunload /System/Library/Extensions/AppleUSBEthernet.kext
sudo rm -rf /System/Library/Extensions/AppleUSBEthernet.kext
fi

if [ -d /System/Library/Extensions/AX88772.kext ]
then
sudo kextunload /System/Library/Extensions/AX88772.kext
sudo rm -rf /System/Library/Extensions/AX88772.kext
fi
```

```
#!/bin/sh
#filename:autopack.sh

sudo touch /System/Library/Extensions
```

Below is AX88772_772A_772B_760_uninstall script file

```
#!/bin/sh
#filename:autopack.sh

sudo cp -R /asix_temp/AppleUSBEthernet.kext
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns
sudo rm -rf /asix_temp/AppleUSBEthernet.kext

if [ -d /System/Library/Extensions/AX88772.kext ]
then
sudo kextunload  /System/Library/Extensions/AX88772.kext
sudo rm -rf /System/Library/Extensions/AX88772.kext
fi

if [ -d /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext ]
then
sudo kextunload  /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext
sudo rm -rf /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext
fi

sudo chmod -R 755
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBEthernet.kext
sudo chown -R root:wheel
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBEthernet.kext
sudo touch /System/Library/Extensions
```

Appendix B   AX88178 Script Files

Below are preflight and postflight script files:

```
#!/bin/sh
#filename:autopack.sh

if [ -d /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBGigEthernet.kext ]
then
sudo mkdir /asix_temp
sudo cp -R
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBGigEthernet.kext
/asix_temp/AppleUSBGigEthernet.kext
sudo kextunload
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBGigEthernet.kext
sudo rm -rf
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBGigEthernet.kext
sudo chmod -R 755 /asix_temp/AppleUSBGigEthernet.kext
sudo chown -R root:wheel /asix_temp/AppleUSBGigEthernet.kext
fi

if [ -d  /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext ]
then
sudo kextunload /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext
sudo rm -rf /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext
fi

if [ -d /System/Library/Extensions/AppleUSBGigEthernet.kext ]
then
sudo kextunload /System/Library/Extensions/AppleUSBGigEthernet.kext
sudo rm -rf /System/Library/Extensions/AppleUSBGigEthernet.kext
fi

if [ -d /System/Library/Extensions/AX88178.kext ]
then
sudo kextunload /System/Library/Extensions/AX88178.kext
sudo rm -rf /System/Library/Extensions/AX88178.kext
fi
```

```
#!/bin/sh
#filename:autopack.sh

sudo touch /System/Library/Extensions
```

Below is AX88178_uninstall script file

```
#!/bin/sh
#filename:autopack.sh

sudo cp -R /asix_temp/AppleUSBGigEthernet.kext
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns
sudo rm -rf /asix_temp/AppleUSBGigEthernet.kext

if [ -d /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext ]
then
sudo kextunload  /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext
sudo rm -rf /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88178.kext
fi

if [ -d /System/Library/Extensions/AX88178.kext ]
then
sudo kextunload  /System/Library/Extensions/AX88178.kext
sudo rm -rf /System/Library/Extensions/AX88178.kext
fi

sudo chmod -R 755
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBGigEthernet.kext
sudo chown -R root:wheel
/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AppleUSBGigEthernet.kext
sudo touch /System/Library/Extensions
```

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