

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

Revision 1.00
August 12, 2010

Revision History

Revision	Date	Description
1.00	2010/8/12	Initial release.

Contents

1	Description.....	4
2	AX88772B/772A/760/772 Driver Installation	5
3	AX88772B/772A/760/772 Driver Uninstallation	6
4	AX88178 Driver Installation.....	7
5	AX88178 Driver Uninstallation.....	8
Appendix A	AX88772B/772A/760/772 Script Files	9
Appendix B	AX88178 Script Files.....	11

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 **/System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/+** folder to **%asix_temp+** folder.
- (3) Unload and remove Apple's default driver from **/System/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.

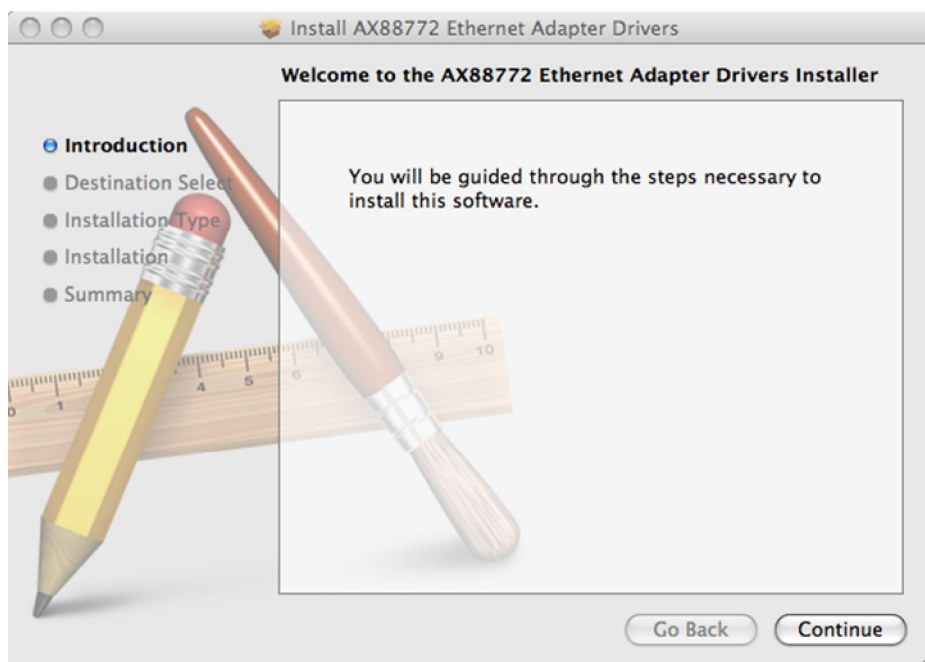
When uninstalling ASIX's AX88772B/772A/760/772 or AX88178 driver, the driver uninstallation script will remove ASIX's driver and then re-install the corresponding Apple's default AX88772B/772A/760/772 or AX88178 USB-to-LAN driver back to the system. The uninstallation script will do the following operations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

- (1) Copy Apple's default driver from **%asix_temp+** folder to **%System/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 of 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/760/772 Driver Uninstallation

Below is an example of 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 1: Execute the uninstallation script file %AX88772_772A_772B_760_uninstall+ under Terminal mode to start the uninstallation operation. (Refer to below figure)

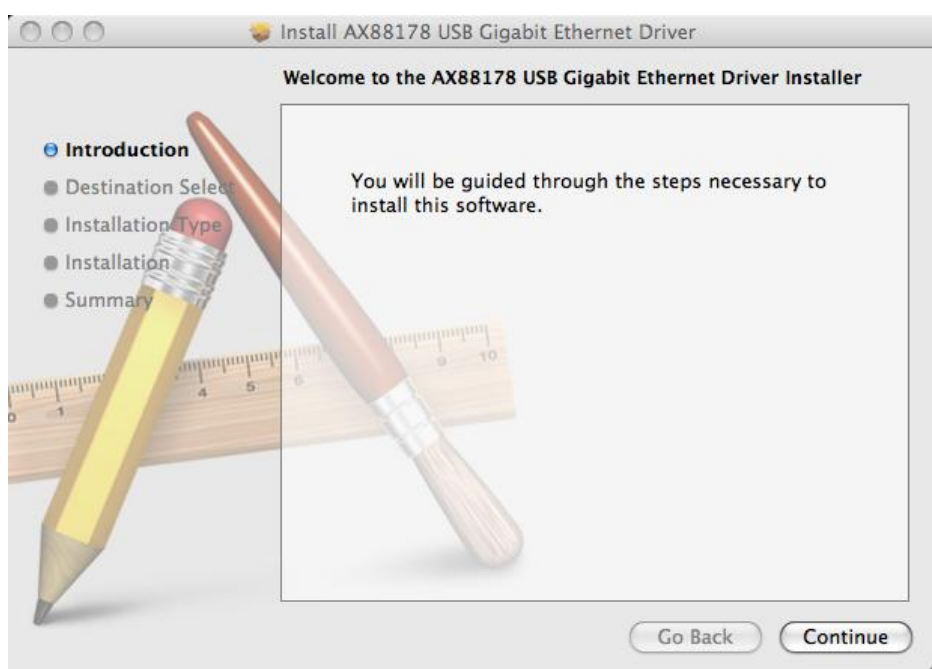
```
Last login: Wed Aug  4 14:29:10 on ttys000
tests-macbook-air:~ test$ cd Desktop/Driver\ uninstall/
tests-macbook-air:Driver uninstall test$ ./AX88772_772A_772B_760_uninstall
kextunload: unload kext /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/AX88772.kext succeeded
tests-macbook-air:Driver 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 of 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 of 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 AX88772B/772A/760/772 Script Files

Below are **preflight** and **postflight** script files:

```
#File : preflight

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/A88772.kext ]
then
sudo kextunload /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/A88772.kext
sudo rm -rf /System/Library/Extensions/IONetworkingFamily.kext/Contents/PlugIns/A88772.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
```

```
#File : postflight

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:

```
#File : preflight

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/AppleUSBEthernet.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
```

```
#File : postflight

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
```



ASIX Electronics Corporation.

**4F, No.8, Hsin Ann Rd., Hsinchu Science Park,
Hsinchu, Taiwan, R.O.C.**

TEL: +886-3-5799500

FAX: +886-3-5799558

Email: support@asix.com.tw

Web: <http://www.asix.com.tw>