

AX88179/AX88178A macOS Driver Quick Installation Guide

Revision 1.01
September 24th, 202

Revision History

Revision	Date	Description
1.00	2020/06/15	Initial release.
1.01	2020/09/24	Updated some description in Section 2

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1. Introduction

This document contains the installation and uninstallation information of AX88179/AX88178A macOS drivers.

2. Driver Installation Procedures

The AX88179/AX88178A macOS driver installation package is “**AX88179_178A.dmg**”.

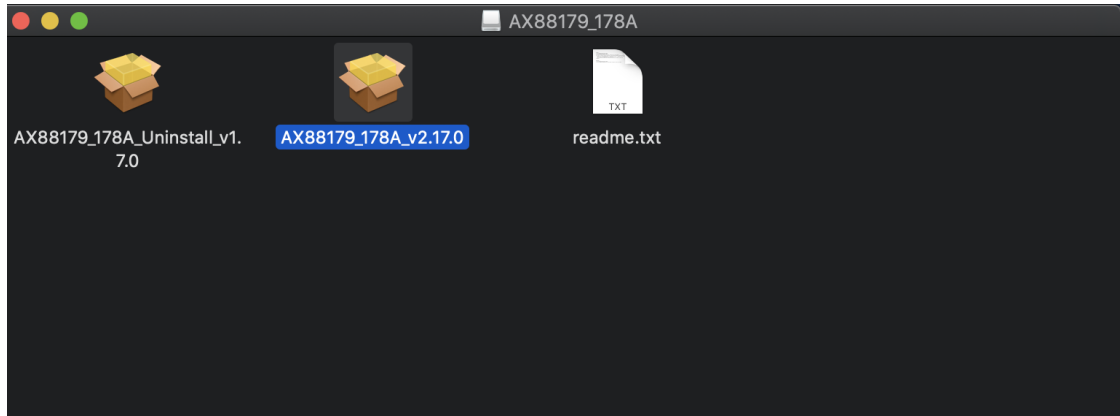
The following is an example of ASIX's AX88179/AX88178A macOS driver installation procedures.

Note: If your OS is macOS11 above, please follow below step1 to disable System Integrity Protection firstly, before install the driver.

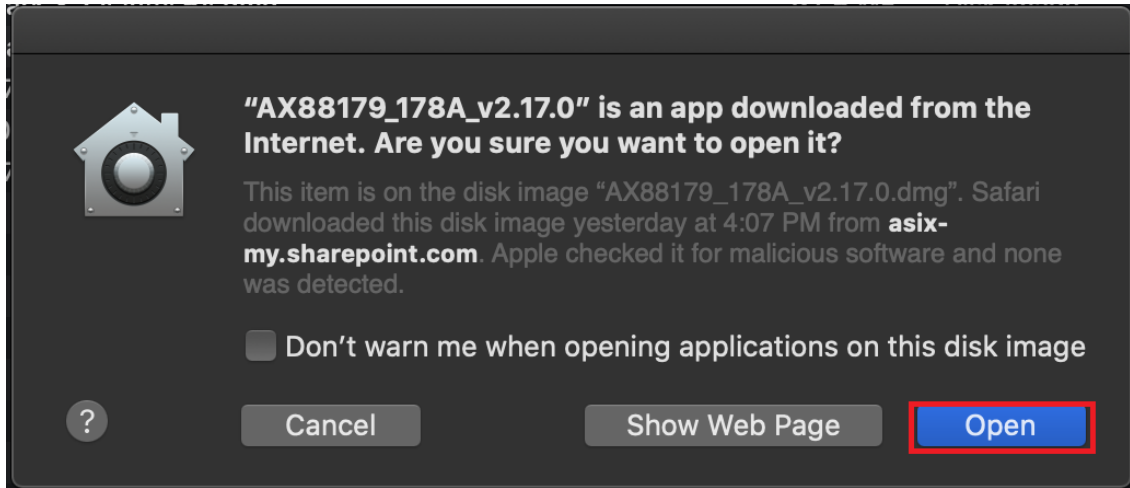
Step 1: Disable System Integrity Protection.

- * From the Apple menu select Restart.
- * As your Mac restarts, press and hold down the Command(?) + R keys immediately upon hearing the startup chime. Hold the keys until the Apple logo appears to get the computer in Recovery mode. The computer is now in Recovery mode.
- * From the Apple menu select Utilities -> Terminal
- * Run the command: **csrutil disable**
- * From the Apple menu, select Restart.

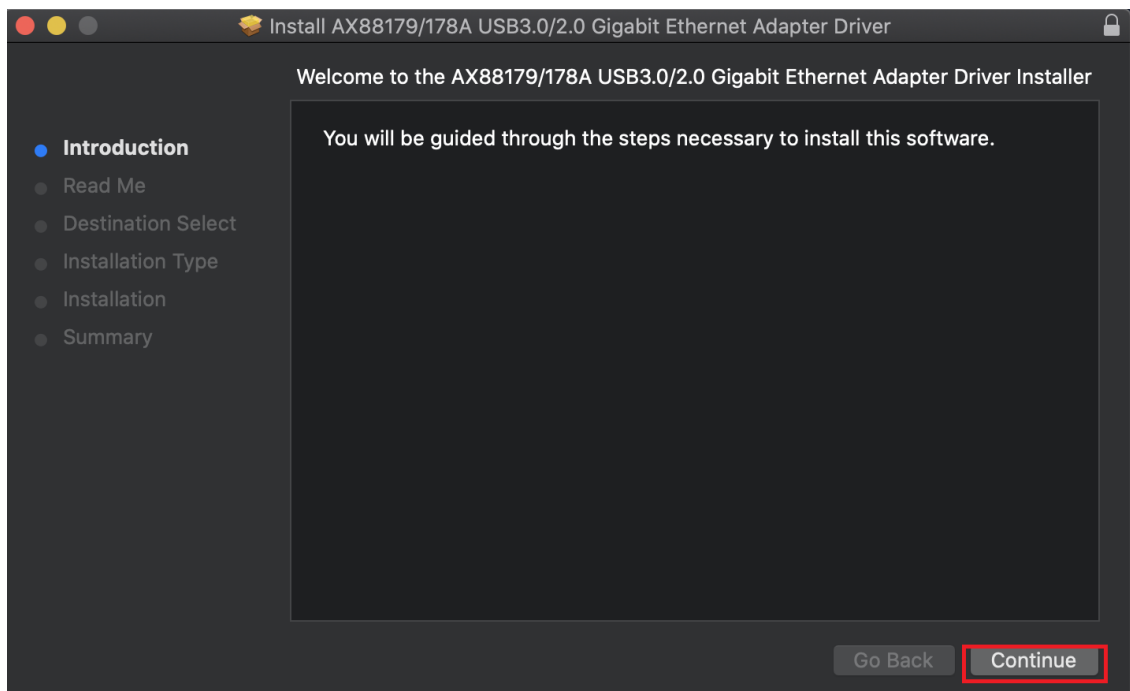
Step 2: Click the “**AX88179_178A.dmg**”, the following “AX88179” virtual disk will be appeared on the Desktop of your macOS system. (This “AX88179” virtual disk will be auto-removed after rebooting macOS system.)



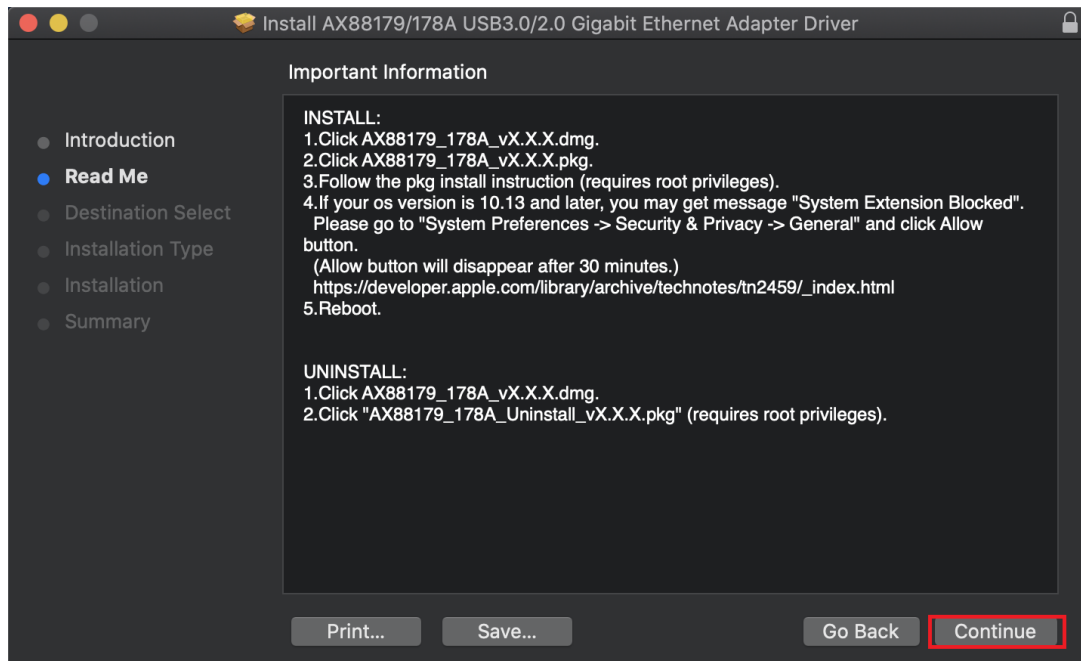
Step 3: Click the “**AX88179_178A_vx.x.x.pkg**” (“x.x.x” is driver installer revision number), the following driver setup dialog will appear. Click the [Open] button to start the installation operation and follow the instructions to continue the installation.



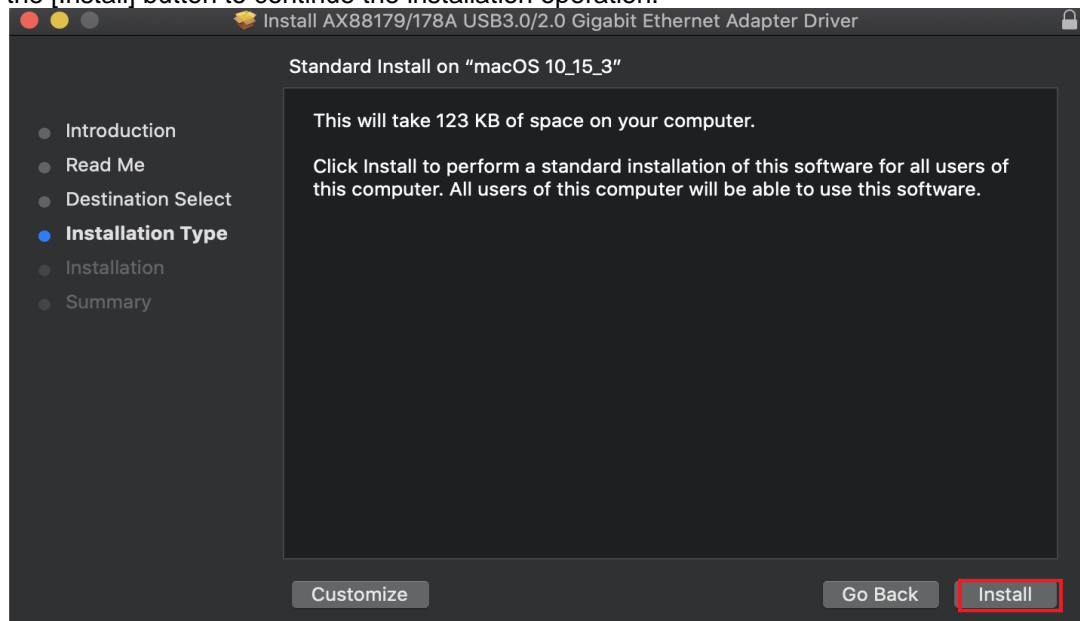
Step 4: Click the “**AX88179_178A_vx.x.x.pkg**” (“x.x.x” is driver installer revision number), the following driver setup dialog will appear. Click the [Continue] button to start the installation operation and follow the instructions to continue the installation.



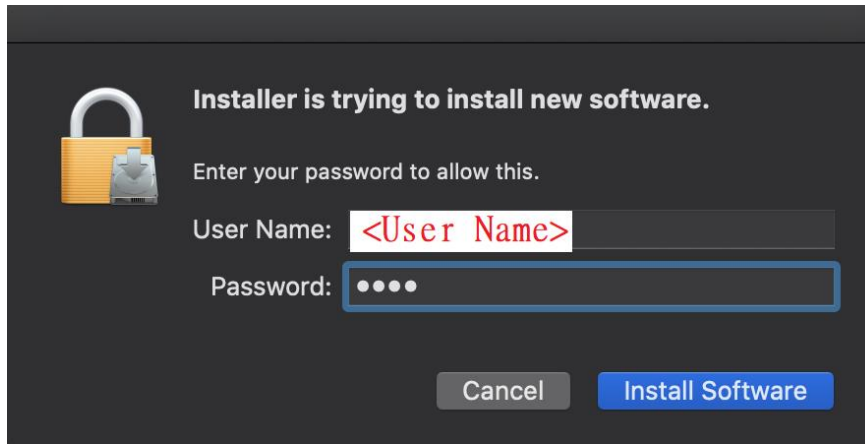
Step 5: Read the information of "Read Me" page first and press [Continue] button to continue the installation operation.



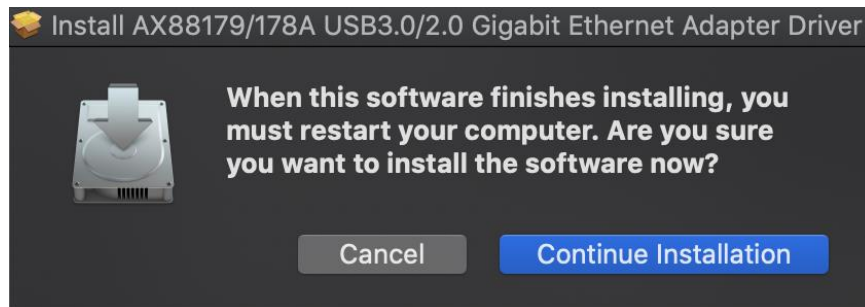
Step 6: Click the [Install] button to continue the installation operation.



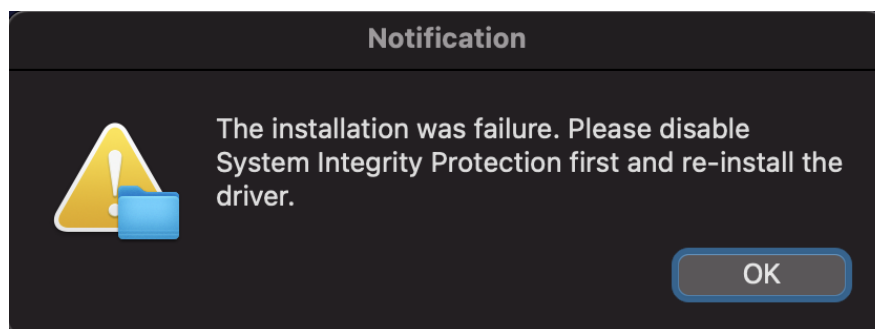
Step 7: You might need to enter your user/password during the driver installation.



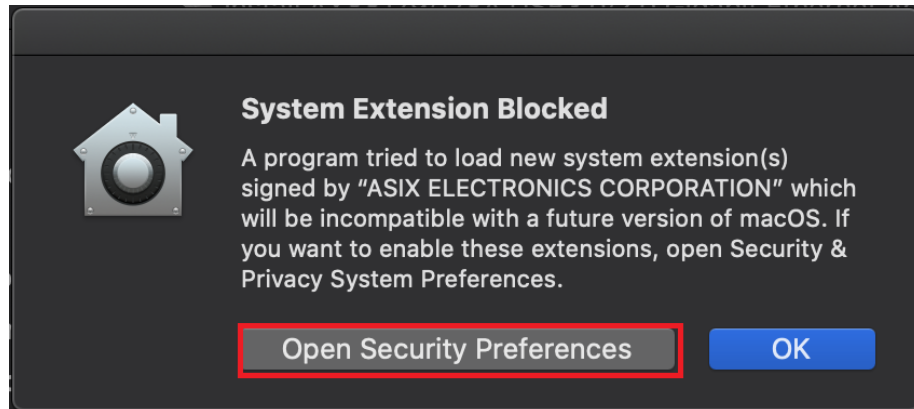
Step 8: Click the [Continue Installation] button to continue the installation operation.



Step 9: If system popped up the following dialog when installing process, please refer to step1 to disable SIP for driver install.

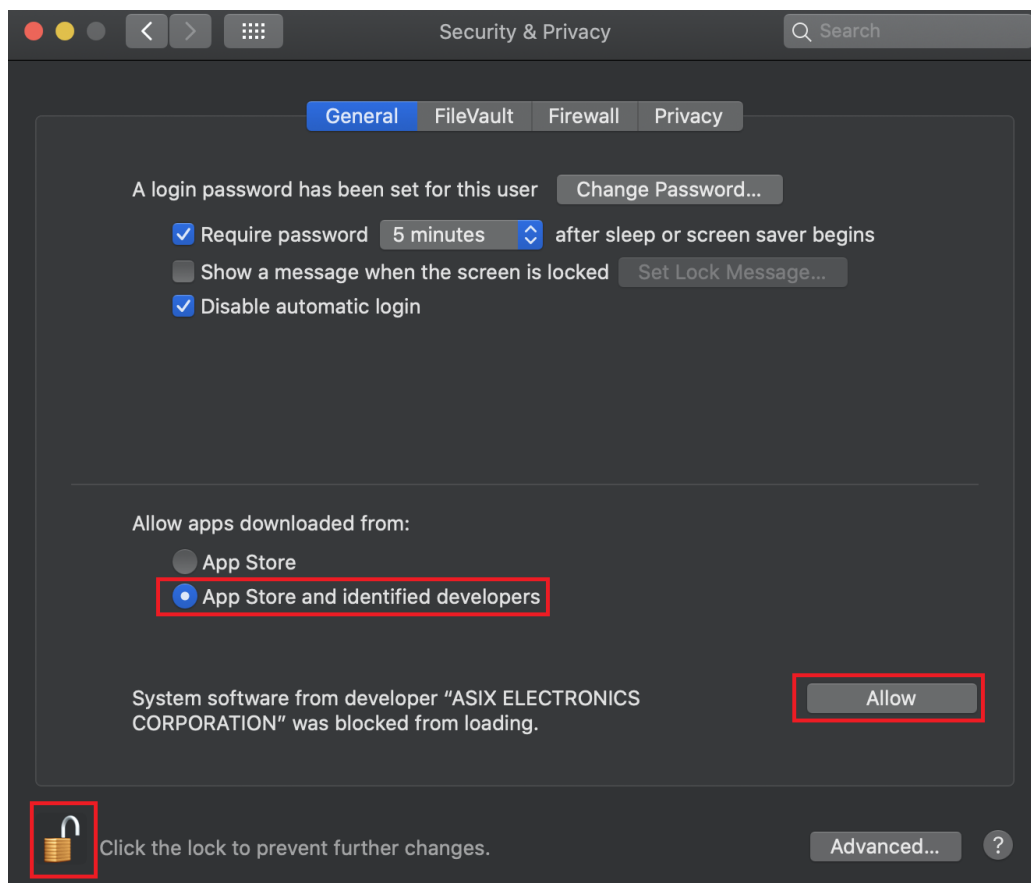


Step 10: Click the [Open Security Preference] button to continue the installation operation.

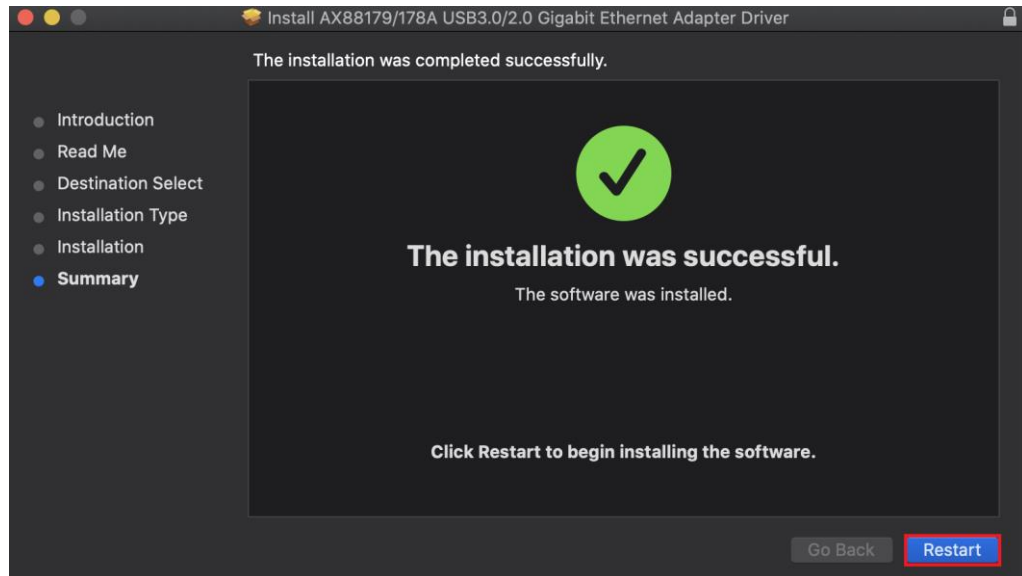


Note: This step is necessary, macOS 10.13 and above has a new feature that requires user approval before loading newly-installed third-party kernel extensions (KEXTs). If you do not click "Open Security Preferences" button to allow it as next step, the driver will be not installation well.

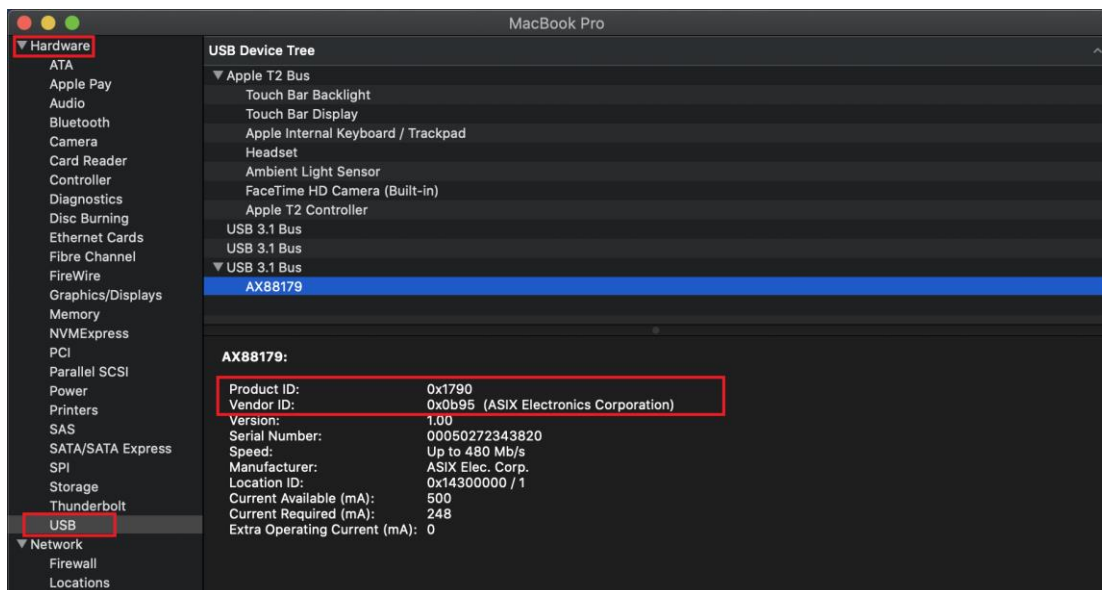
Step 11: Click the lock to prevent further changes, then press [Allow] button to continue the driver installation.

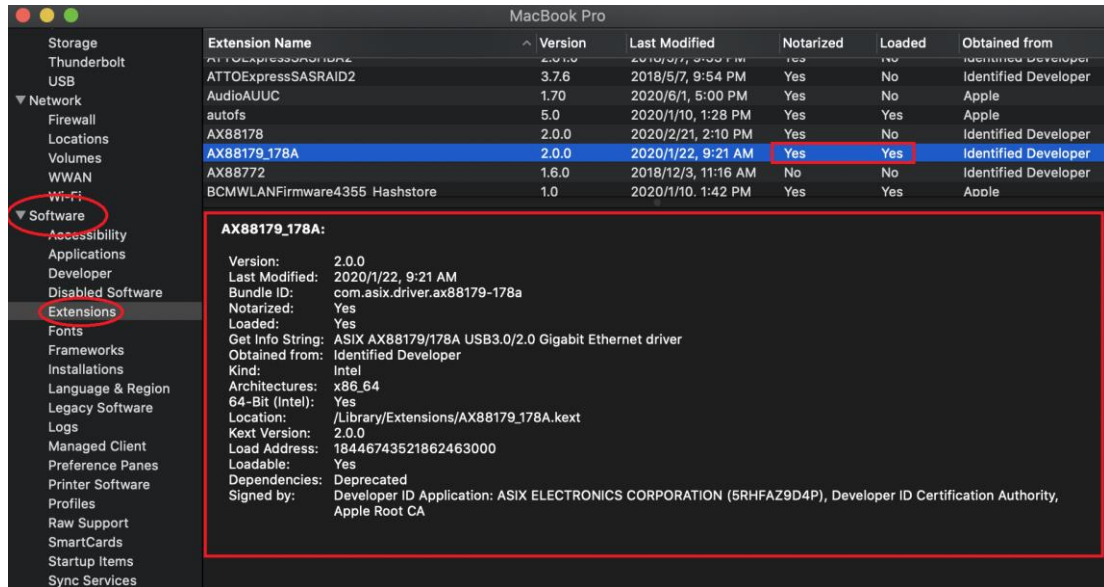


Step 12: Click the [Restart] button to restart macOS system to take effect the revised driver installation.

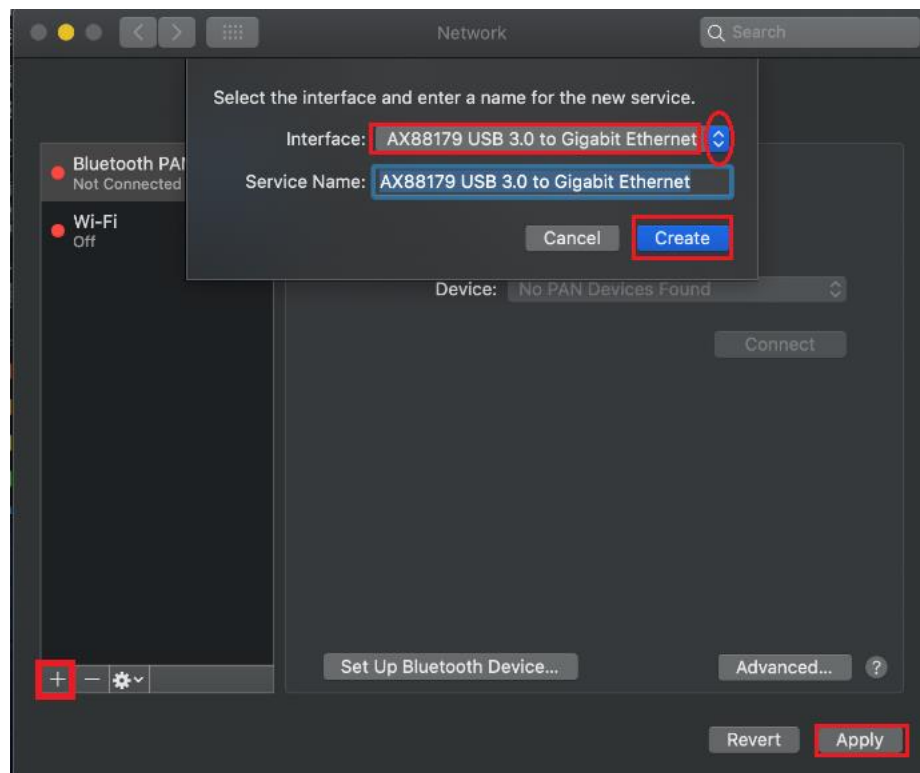


Step 13: After booting up your macOS system, plug your AX88179/AX88178A USB dongle onto the USB port of your macOS system and refer to the following information to double check if your USB dongle had been identified properly by macOS system and the AX88179/AX88178A macOS driver was installed correctly or not.

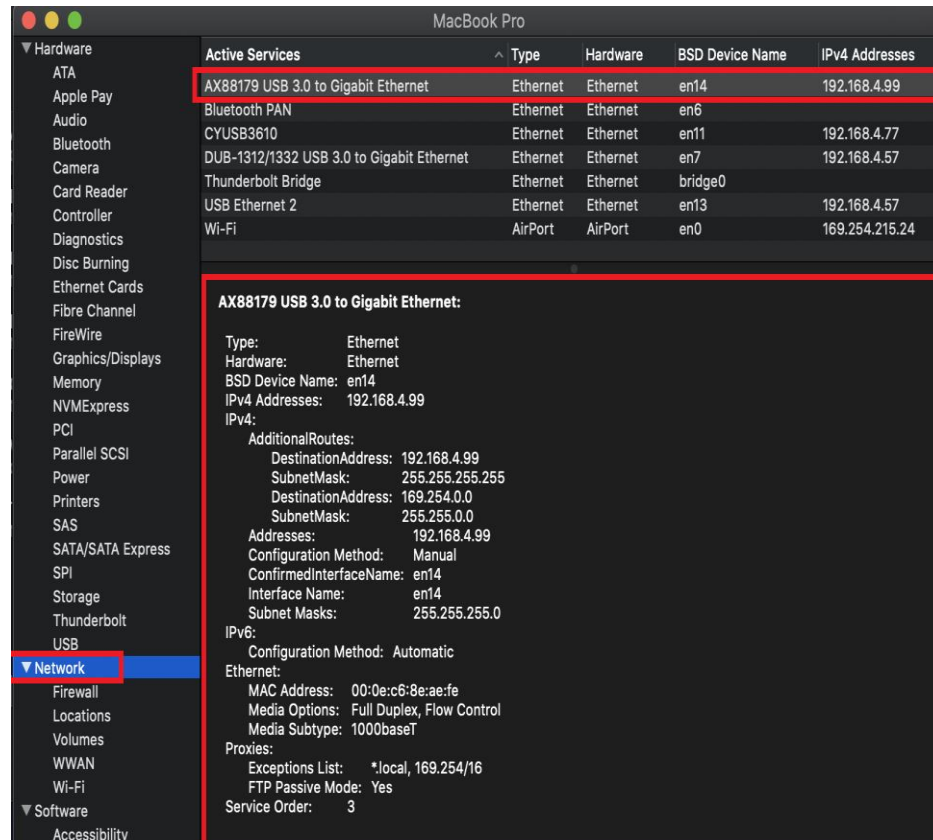
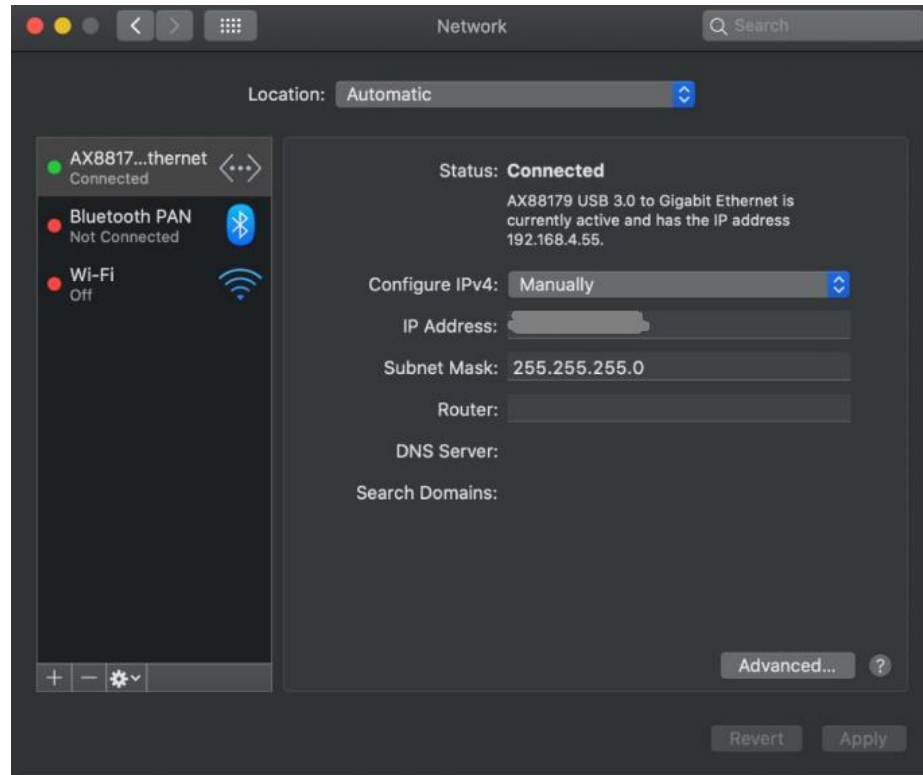




Step 14: Please refer to below figure to add a new “AX88179 USB 3.0 to Gigabit Ethernet” network interface and then press the [Apply] button to take effect the new network interface.



Step 15: The new “AX88179 USB 3.0 to Gigabit Ethernet” driver should be ready now.

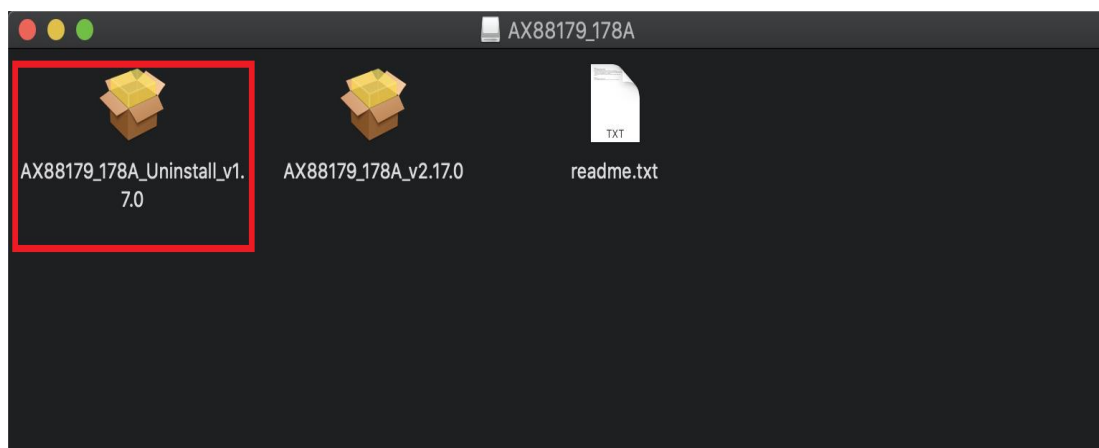


3. Driver Uninstallation Procedures

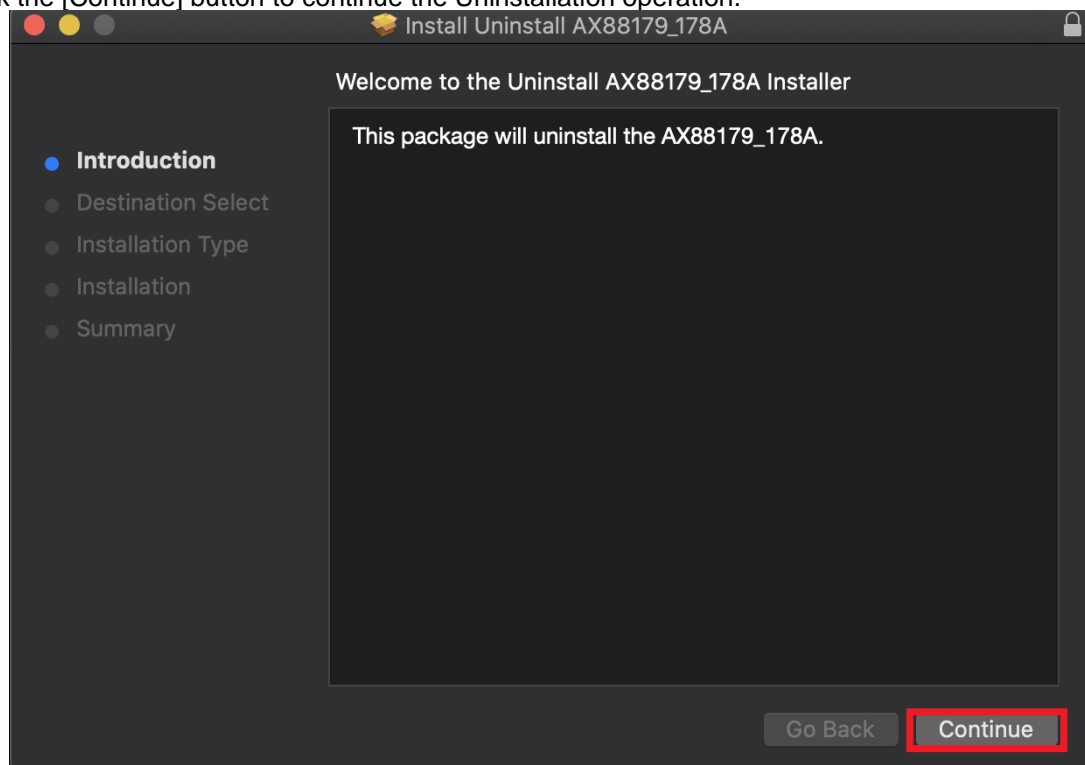
The AX88179/AX88178A macOS driver uninstallation utility is “**AX88179_178A_uninstall_vxxx**” (xxx is the revision number of the driver uninstaller utility).

The following is an example of AX88179/AX88178A macOS driver uninstallation procedures.

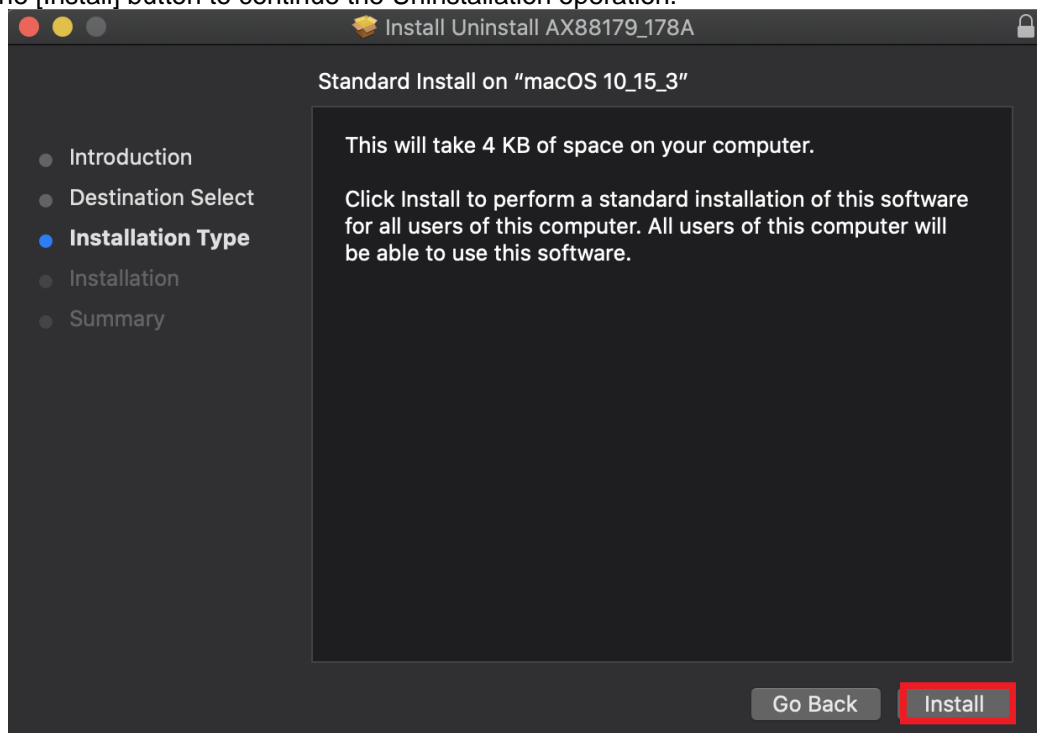
Step 1: Click the “**AX88179_178A.dmg**”, the following “AX88179” virtual disk will be appeared on the Desktop of your macOS system. (This “AX88179” virtual disk will be auto-removed after rebooting macOS system.)



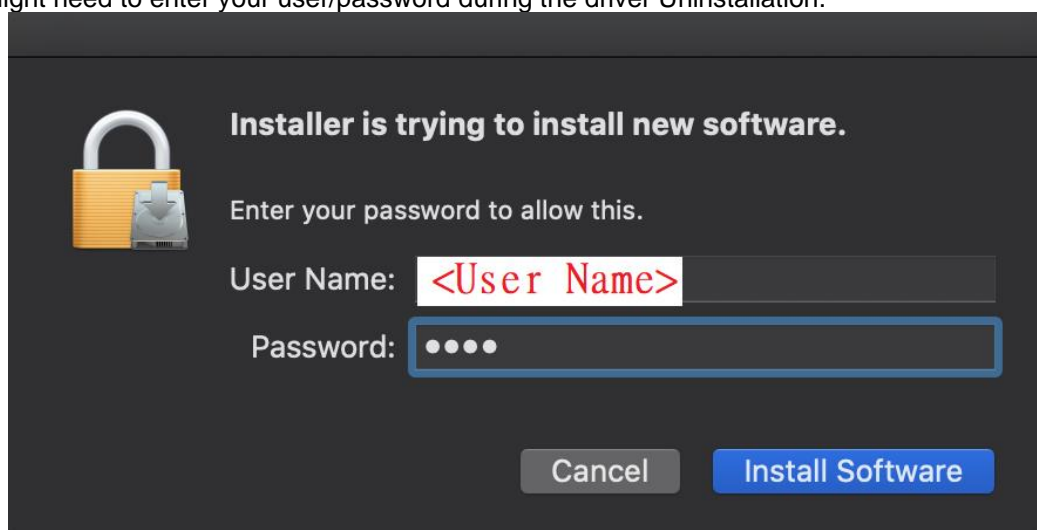
Step 2: Click the [Continue] button to continue the Uninstallation operation.



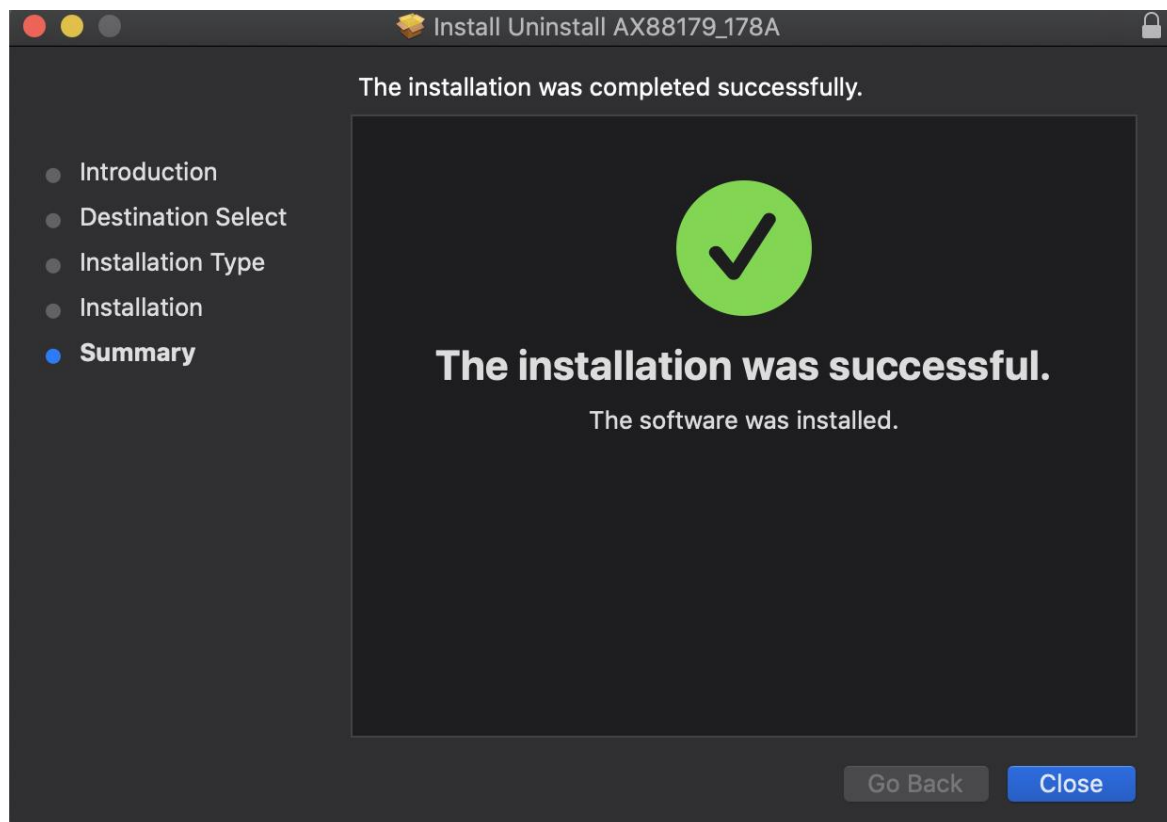
Step 3: Click the [Install] button to continue the Uninstallation operation.



Step 4: You might need to enter your user/password during the driver Uninstallation.



Step 5: Click the [Close] button to complete driver Uninstallation.



4. FAQs

4-1. Where can I obtain the latest AX88179 macOS driver?

Please visit the below Driver Download web page

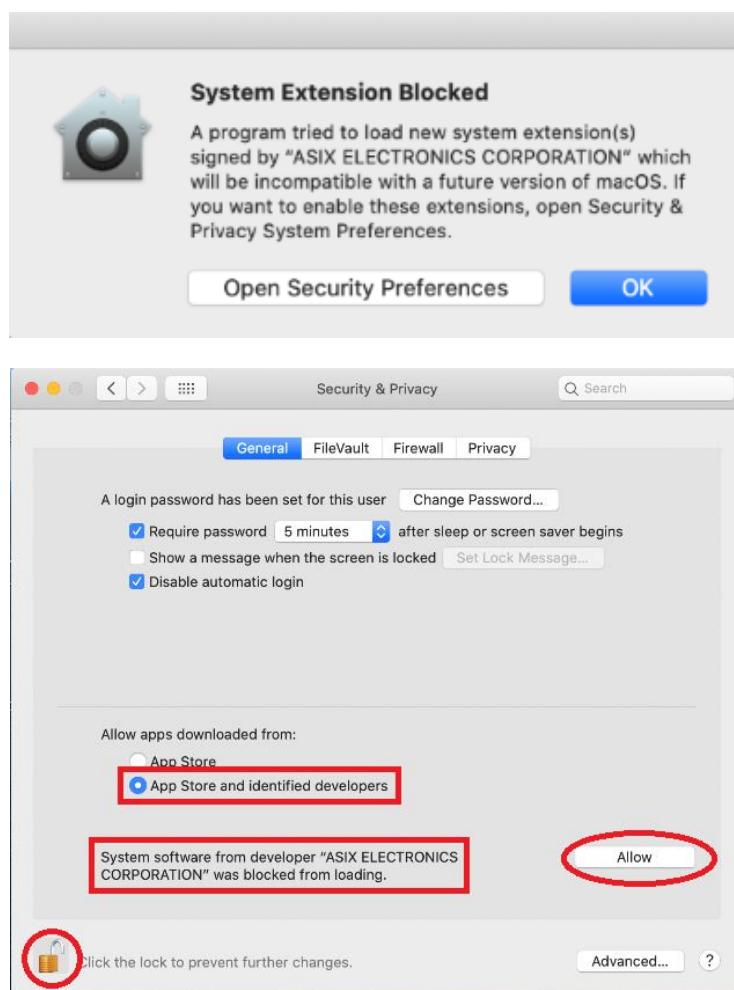
(<http://www.asix.com.tw/download.php?sub=driverdetail&PItemID=131>) for details.

4-2. How to isolate driver failure issues after upgrading macOS system?

Please refer to below procedures to isolate the driver failure issues after upgrading macOS system.

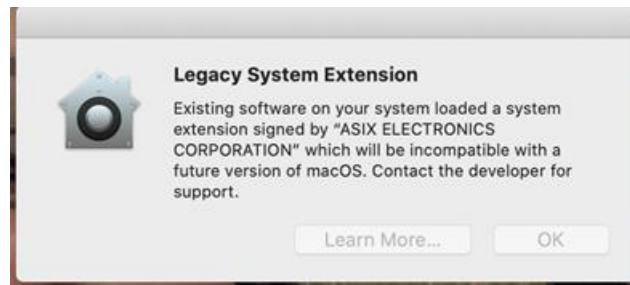
1. Please refer to Section 3 to uninstall clearly the previous revision AX88179/AX88178A macOS driver firstly.
2. Please refer to Section 2 to install the latest AX88179/AX88178A macOS driver to see if the driver can work fine now or not?
3. If you saw below error message during running AX88179/AX88178A macOS driver installer, please refer to below figures to press **"Allow"** button to allow ASIX AX88179/AX88178A macOS driver to be loaded on macOS 10.13 or above system. You can refer to below URL for details. If you don't want to see this error message any more, you can set the "Allow apps downloaded from" option on the "Security & Privacy" console to **"App Store and identifier developers"** as below figure.

https://developer.apple.com/library/content/technotes/tn2459/index.html#//apple_ref/doc/uid/DTS40017658



4. If you still have problems, please unplug/re-plug your AX88179/AX88178A dongle to see if it can improve your issues or not?
5. If you still have problems, the issues are caused by potential hardware compatibility issues on your suspected AX88179/AX88178A dongle, please contact the manufacturer support guys of your suspected AX88179/AX88178A dongle to isolate your issues.

4-3. I get the following popup dialog after updating to Mac OS 10.15.4

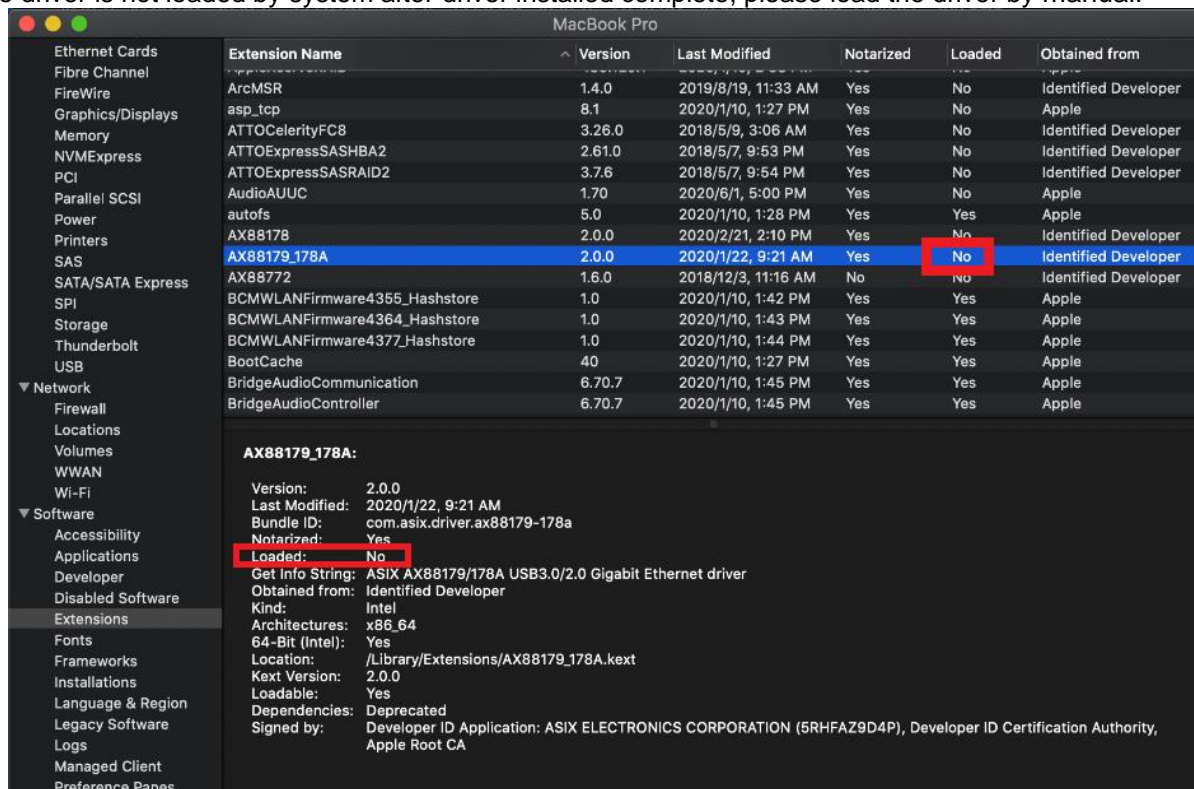


We have noticed this event since System extensions on macOS Catalina (10.15) allow software like network extensions and endpoint security solutions to extend the functionality of macOS without requiring kernel-level access. It's just remind developer/user and does not have any impact on the use AX88179/AX88178A dongle. We will release the revised driver onto download page once the driver is available.

<https://developer.apple.com/support/kernel-extensions/>

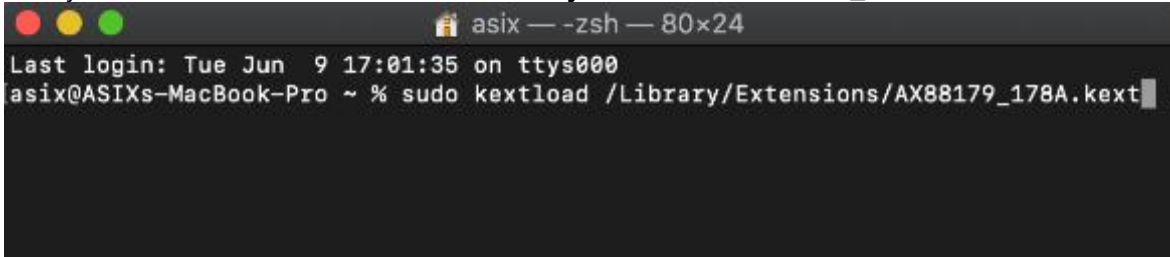
4-4. If driver is not loaded by system after driver installed.

if the driver is not loaded by system after driver installed complete, please load the driver by manual.



Step 1. Open Terminal.

Step 2. Key in the command: **sudo kextload /Library/Extensions/AX88179_178A.kext**

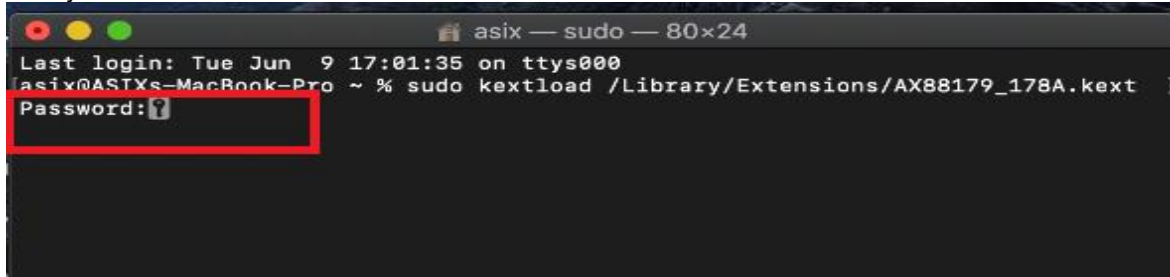


```

Last login: Tue Jun 9 17:01:35 on ttys000
asix@ASIXs-MacBook-Pro ~ % sudo kextload /Library/Extensions/AX88179_178A.kext

```

Step 3. Key in Password.



```

Last login: Tue Jun 9 17:01:35 on ttys000
asix@ASIXs-MacBook-Pro ~ % sudo kextload /Library/Extensions/AX88179_178A.kext
Password:

```

Step 4. Please check Software->Extension again.

MacBook Pro						
	Extension Name	Version	Last Modified	Notarized	Loaded	Obtained from
Ethernet Cards	AppleVmxnet3Ethernet	1.0.10	2020/1/10, 1:34 PM	Yes	No	Apple
Fibre Channel	AppleWWANAutoEject	1.0.1	2020/1/10, 2:31 PM	Yes	No	Apple
FireWire	AppleWWANSupport	3.0.0	2020/1/10, 1:49 PM	Yes	No	Apple
Graphics/Displays	AppleWWANSupport1	4.0.0	2020/1/10, 1:49 PM	Yes	No	Apple
Memory	AppleWWANSupport2	3.0.0	2020/1/10, 1:49 PM	Yes	No	Apple
NVMeExpress	AppleXsanScheme	15	2020/1/10, 1:31 PM	Yes	Yes	Apple
PCI	AppleXserveRAID	489.120.1	2020/1/10, 2:33 PM	Yes	No	Apple
Parallel SCSI	ArcMSR	1.4.0	2019/8/19, 11:33 AM	Yes	No	Identified Developer
Power	asp_tcp	8.1	2020/1/10, 1:27 PM	Yes	No	Apple
Printers	ATTOCelerityFC8	3.26.0	2018/5/9, 3:06 AM	Yes	No	Identified Developer
SAS	ATTOExpressSASHBA2	2.61.0	2018/5/7, 9:53 PM	Yes	No	Identified Developer
SATA/SATA Express	ATTOExpressSASRAID2	3.7.6	2018/5/7, 9:54 PM	Yes	No	Identified Developer
SPI	AudioAUUC	1.70	2020/6/1, 5:00 PM	Yes	No	Apple
Storage	autofs	5.0	2020/1/10, 1:28 PM	Yes	Yes	Apple
Thunderbolt	AX88178	2.0.0	2020/2/21, 2:10 PM	Yes	No	Identified Developer
USB	AX88179_178A	2.0.0	2020/1/22, 9:21 AM	Yes	Yes	Identified Developer
▼ Network	AX88772	1.6.0	2018/12/3, 11:16 AM	No	No	Identified Developer
Firewall	BCMWWANFirmware4355_Hashstore	1.0	2020/1/10, 1:42 PM	Yes	Yes	Apple
Locations	BCMWWANFirmware4364_Hashstore	1.0	2020/1/10, 1:43 PM	Yes	Yes	Apple
Volumes	BCMWWANFirmware4377_Hashstore	1.0	2020/1/10, 1:44 PM	Yes	Yes	Apple
WWAN						
Wi-Fi						
▼ Software						
Accessibility						
Applications						
Developer						
Disabled Software						
Extensions						
Fonts						
Frameworks						



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