

AU9540/9560 Smart Card Reader

Installation Guide for MAC OS X

Requirements:

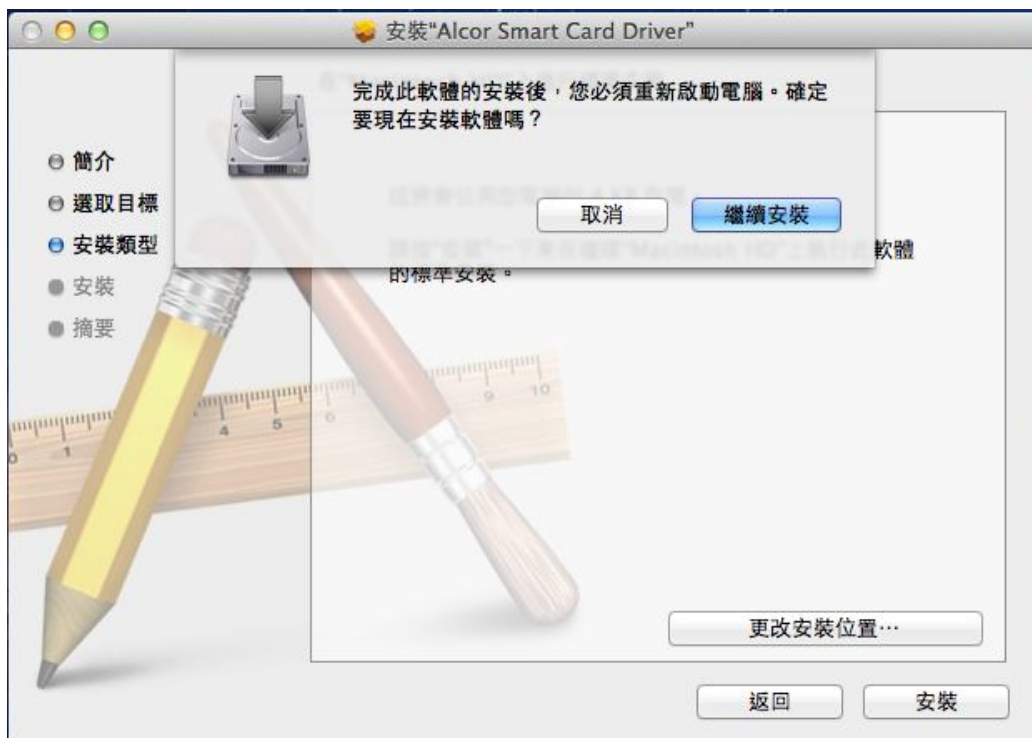
- 1 Support ISO7816 T0, T1 protocol
- Support MAC OS X 10.7 or above

Steps:

1. Connect Alcor Micro Smart Card Reader
2. Double-click "AlcorSCR_MAC.pkg" and follow the instructions of the wizard.



3. Enter the Root Password, and follow the instructions of the wizard.





How to check if a smart card stack works or not?

1. Plug the reader onto a computer's USB port,
2. Open a Terminal window and enter the following command to manually running pcscd.
 - 1) sudo pcscd -f
 - 2) Enter the Root Password.
 - 3) pcscctest
3. pcscctest displays the list of connected readers
4. Enter the number of the reader you want to test (in our case, only '1' is allowed).
5. Put a card on the reader, and check that everything is running as expected.

```
UFDs-MacBook-Air:~ UFD$ pcscctest
```

```
MUSCLE PC/SC Lite Test Program
```

```
Testing SCardEstablishContext : Command successful.
Testing SCardGetStatusChange
Please insert a working reader : Command successful.
Testing SCardListReaders      : Command successful.
Reader 01: Alcor Micro AU9540 00 00
Enter the reader number       : 1
Waiting for card insertion

                                : Command successful.
Testing SCardConnect          : Command successful.
Testing SCardStatus           : Command successful.
Current Reader Name           : Alcor Micro AU9540 00 00
Current Reader State          : 0x34
Current Reader Protocol       : 0x1
Current Reader ATR Size       : 24 (0x18)
Current Reader ATR Value      : 3B EF 00 FF 81 31 86 45 49 42 4D 20 4D 46 43
34 30 30 30 30 38 33 31 43
Testing SCardDisconnect       : Command successful.
Testing SCardReleaseContext    : Command successful.
Testing SCardEstablishContext : Command successful.
Testing SCardGetStatusChange
Please insert a working reader : Command successful.
Testing SCardListReaders      : Command successful.
Reader 01: Alcor Micro AU9540 00 00
Enter the reader number       : █
```

No reader connected

```
$ pscstest

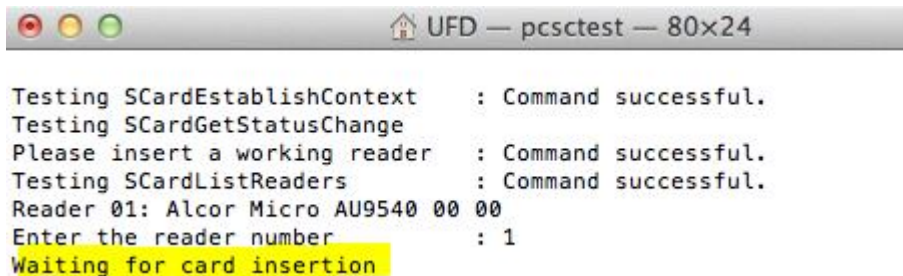
MUSCLE PC/SC Lite Test Program

Testing SCardEstablishContext : Service not available.
```

On Mac OS X the PC/SC service (in fact the `pcscd` daemon) is started by the security process at boot and when a USB smart card reader is connected.

So if no reader is connected you get the error: "Service not available" because pcscd is not yet running.

No smart card inserted



```
Testing SCardEstablishContext : Command successful.
Testing SCardGetStatusChange
Please insert a working reader : Command successful.
Testing SCardListReaders      : Command successful.
Reader 01: Alcor Micro AU9540 00 00
Enter the reader number      : 1
Waiting for card insertion
```

The program is then waiting for a card insertion.

If you have a card inserted and you do not get the ATR or an error then you have a problem.

If you insert a card and get the error "**Card is unpowered**" then you may have inserted the card the wrong way (or your card is dead).