

FingerChip™ Demonstration Software Starting Guide

This distribution is related to the V14.04 release of the FingerChip software and refers to the following devices:

- Atmel's USB FingerChip demonstrator, P/N FCSWEEP06



- ID3 Semiconductors/Orcanthus Certis FingerChip USB reader (previously called Bioki), P/N BIODKI01



- Atmel's evaluation kit for AT77C104B sensor with navigation feature, P/N AT77C104B -EK2



- Atmel's FCXD4B14CC FingerChip demonstrator, P/N FCSWEEP03 (EOL product)





More information is available on Application Note 33 included into the setup package

**Do not connect the FingerChip reader before
having installed the FingerChip demonstration software**

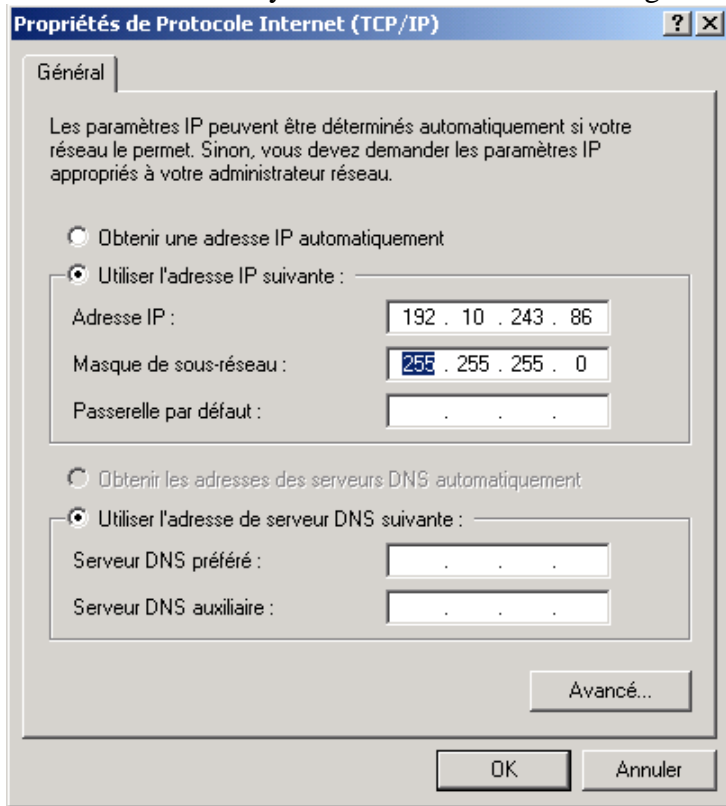
INSTALLATION FOR USB READER

Windows XP, Windows 2000 or Windows 98 are required for a proper installation.
Make sure that the device is not connected while installation is performed.

1. Run the setup program. The setup will copy the drivers and install the applications in the selected directory (Program Files\ATMEL-Grenoble\FingerChip\ is the default and recommended directory)
2. Execute the FC_Parameters application and check that the PART_NUMBER is set according to your device. In case it's not, change it. The available part numbers are described on the first page .
3. Connect your hardware to your PC. Windows will detect a new hardware on the USB interface and automatically install the driver. If Windows asks for the driver, point to Windows(or Winnt)/System32/Drivers. The drivers are also available with the applications (Program Files\ATMEL-Grenoble\FingerChip\Drivers). The following message may appear: "The software you are installing for this hardware has not passed Windows Logo testing to verify its compatibility with Windows". You can continue anyway.

INSTALLATION FOR ETHERNET READER (AT77C104B-EK2)

First make sure that your TCP connection is configured with a fixed IP address.



1. Run the setup program. The setup will copy the drivers and install the applications in the selected directory
(Program Files\ATMEL-Grenoble\FingerChip\ is the default and recommended directory)
2. Execute the FC_Parameters application and check that the PART_NUMBER is set according to your device. In case it's not, change it. The available part numbers are described on the first page.
3. Connect the reader to your PC with the provided Ethernet cable in place of your local network connection.
Set the power voltage selector to 4.5V. Power the reader on and wait about 12 seconds for the yellow led to blink.



Once the installation is finished, run the FC_Demo application to check if everything has been properly installed.

You are now ready to use the applications:

- FC_Demo: FC_Demo.exe is a more detailed application to acquire fingerprint images
- FC_Mouse: FC_Mouse.exe uses the FingerChip as a touchpad
- FC_Training: FC_Training.exe continuously grabs fingerprint images
- FC_Parameters: FC_Parameters.exe allows the user to change FingerChip configuration

Authentication software demonstrations are not part of this installation but can be made available on request.

INSTALLED FILES

The Demonstration kit setup program installs the following files:

- FC_Demo.exe, FC_Mouse.exe, FC_Parameters.exe and FC_Training.exe in <TARGETDIR>
- FingerChip.dll in <WINSYSDIR>
- An33_appli.pdf in <TARGETDIR>\Documentation
- Drivers (*.sys) in <WINDIR>\System32\Drivers
- Driver Information Files (*.inf) in <WINDIR>\Inf

| | | |
|-------------------|----------|--|
| where <TARGETDIR> | could be | C:\Program Files\ATMEL-Grenoble\FingerChip |
| <WINSYSDIR> | | C:\Windows\System |
| <WINDIR> | | C:\Windows |

The list of all installed files is detailed in the SDK Documentation.

USB CONNECTION: KNOWN PROBLEM WITH WINDOWS 2000

Under Windows 2000 a blue screen crash may occur while using USB2.0 with Hubs.
To prevent this you can install a more recent release of Microsoft EHCI driver.

Open Device Manager, select EHCI, click on Properties -> Driver -> Update driver -> Next -> 'Display a list of the known drivers for this device so that I can choose a specific driver',
-> select 'Have disk' -> browse to
C:\Program Files\Atmel-Grenoble\FingerChip\Drivers\BIOKI01\MS EHCI Win2000
-> OK -> select the driver -> Next -> YES -> force the installation -> Next -> Finish -> Reboot

ETHERNET CONNECTION (AT77C104B-EK2): KNOWN PROBLEM

When the Ethernet connection fails, the message 'FC: Internal error' is returned.
One possible cause of trouble is the use of a Hub.

BUG REPORT

Send your bug reports to

fingerchip@atmel.com

with all relevant files that may help the debug.

KNOWN BUGS

| Reader P/N | Description |
|------------|--|
| BIOKI01 | On OHCI/W98: The PC can't resume from standby without rebooting. |



HISTORY

The followings show the changes compared to the previous release:

| Version | Description |
|------------------|---|
| V14.04 | FCSWEEP06 reader is supported. |
| V14.02 | Installation simplified for Ethernet reader |
| V14.01 | Minor bug corrections (AT77C104B-EK2 reader is supported) |
| V14.00 | AT77C104A-EK1 reader is supported. |
| V13.03 | Minor bug corrections |
| V13.02 | BIOKI01 reader is supported. Windows Xp is supported |
| V13.01 | FCSWEEP06 reader is supported. |
| V13.00 | OHCI support Better detection of defective FingerChip Minor bug corrections |
| V12.00 | ANSI C Dll API Error number clarification |
| Before V12.00 | History has been flushed. |