

ExpressCard Adapter for CF

User Manual & Driver  
Installation Guide



## **User Manual & Driver Installation Guide**

for

**ExpressCard Adapter for CompactFlash Type I / II**

**(PCI-e interface)**

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## Section A -- User Manual

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### A.1 Features

Thanks for choosing this ExpressCard Adapter for CompactFlash (Type I / II). This Adapter is the world's first and fastest reader for transferring data between high-speed CF (Type I / II) and Notebook with ExpressCard slot.

Unlike most of the memory card readers and adapters commonly available in the market, this ExpressCard Adapter is operated under the PCI-express interface. That is to say, its theoretical throughput is at least 5 times faster than that of USB 2.0 interface. For CompactFlash with UDMA mode, the data transfer speed can reach 40MB/sec\*.

With the following features, this adapter is the perfect solution for users with high-speed CF card and looking for maximum capability, efficiency and data throughput :

- Suitable for computers / laptops equipped with ExpressCard™ 34 or ExpressCard™ 54 slot ;
- Support CompactFlash Type I, CF Type II, PIO mode, and UDMA mode (according to CompactFlash Spec. Rev. 4.1) ;
- Extremely high speed for CompactFlash with UDMA mode, data transfer speed (sequential read / write) up to 40 MB/sec\* ;
- Reliable and rugged stainless steel cover ;
- Power supply from ExpressCard socket and no external power required ;
- Support power saving mode to reduce power consumption ;
- Support future new card specifications through driver upgrade ;
- Certified with ExpressCard Logo Standard which is defined by PCMCIA (for further information, please visit [www.expresscard.org](http://www.expresscard.org))

\* Based on internal testing as performance figure will be various upon different host environment.

## Section A -- User Manual

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### A.2 How to Use

#### First-time Use

This Adapter requires the installation of the driver provided in this CD disk. Please **must install the driver for the First-time Use** of this Adapter in your Notebook system.

Please refer to Section B on how to install the driver.

#### Use of this Adapter in transferring data

- 1) First plug-in the CF card into the Adapter ;
- 2) Insert the Adapter with card into the ExpressCard slot (either 34 or 54) of your notebook (as shown in the picture below) ;



- 3) In few seconds, this Adapter will be recognized by the operating system of your notebook. Then, you can start viewing / copying data between memory card and computer via this Adapter.

Remark :

The procedure Step 1) and 2) could be swapped.

## Section A -- User Manual

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This Adapter enables user of Windows OS (Vista / XP / 2000) to operate either at :

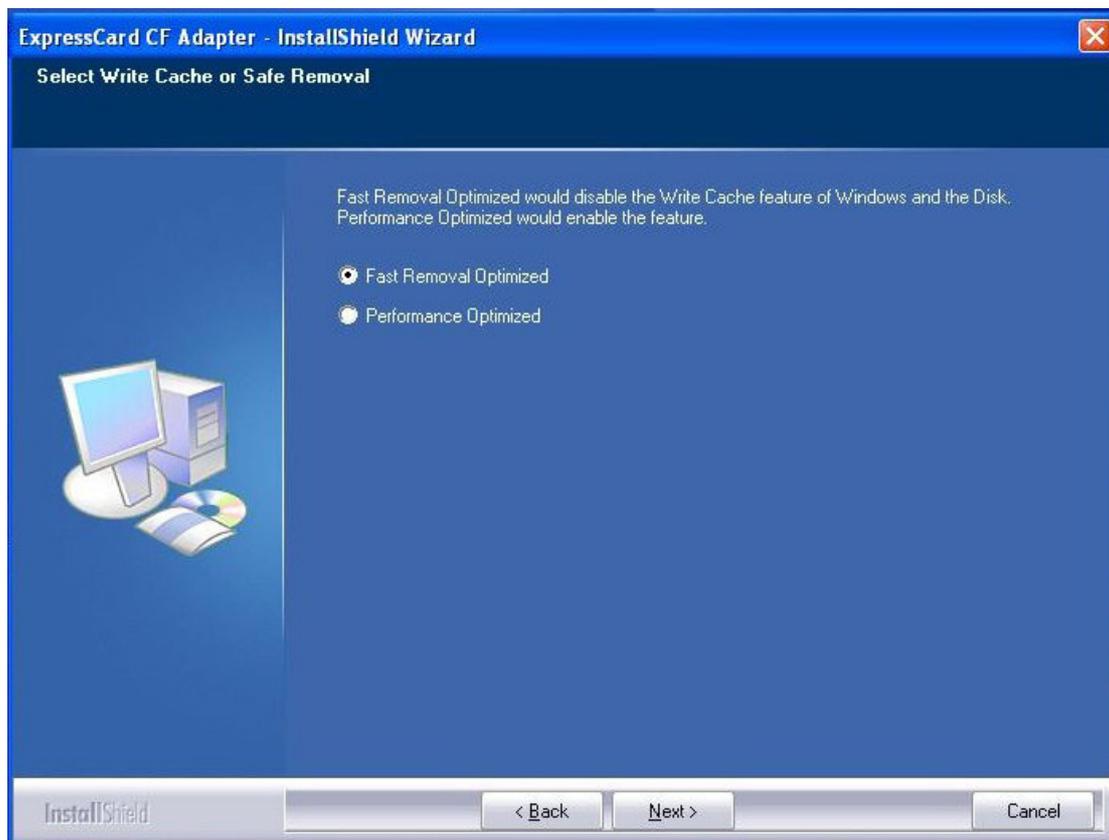
- 1) Fast Removal mode (**highly recommended as hot-swap is enabled**) ; OR
- 2) Performance mode (**hot swap is NOT enabled due to the enhancement in "Write" speed**)

To choose which mode of operation, please refer to Section B.2 (pp.8)

### A.2.1 Recommended mode of operation : Fast Removal mode

Under this mode of operation (as defined during driver installation, please see below screen), **plug-and-play / hot-swapping** is always supported at both ends :

- between Adapter and computer ;
- between Adapter and CF card.



## A.2.2 Advanced option : Operating under Performance mode

The Performance Optimized mode is designed for professional computer user whom may prefer **optimizing data transfer speed (i.e. by enabling the write cache of the system and device)**. As a result, the “write speed” under this mode will be even faster than that of Fast Removal Mode. However, you **MUST perform “safely remove hardware” before unplugging either the adapter or CF card**.

### How to perform “safely remove hardware”

- 1) Click the “Safely Removable Hardware Icon”  of the bottom-right size of your Windows OS ;
- 2) The following window shall be popped up, please click “Stop button” for removing this Adapter in a safely manner



### **Important :**

**Under this Performance Optimized mode, you may lose the data copied in the CF card if the Adapter or CF card is physically removed WITHOUT performing “Safely Remove Hardware”**

## Section A -- User Manual

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### A.3 Specifications

- Link interface : High Speed PCIe Spec. Rev. 1.1 (Data transfer rate up to 2.5Gbps)
- Memory card standard compliant : CompactFlash Spec. Rev. 4.1
- Dimensions : 101 x 55 x 10 mm (L x W x H)
- Weight : 25 g
- OS supported : Windows 2000 / XP / Vista, Mac 10.4.X or above
- Operating power : +3.3 VDC (+/-5% wide range power supply)
- Environment support :
  - Working @ 0°C to 55°C (Temp.); 0 ~ 50% (RH)
  - Storage @ -20°C to 65°C (Temp.); 0 ~ 90% (RH)

## Section B – Driver Installation Guide

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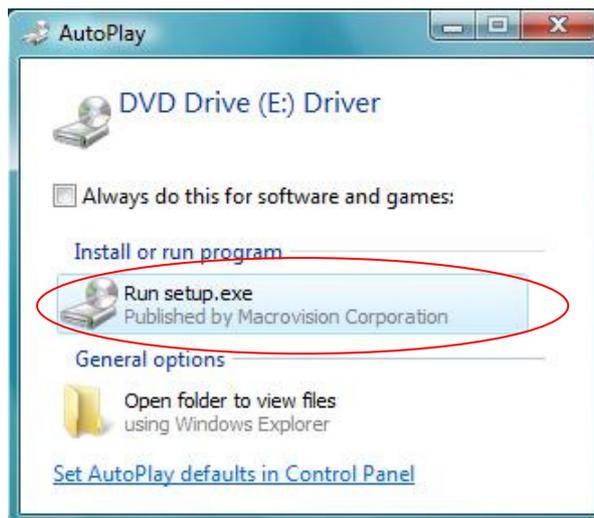
### B.1 Important Information – MUST READ

Before installing the driver, please MUST have the adapter with CF card inserted into the ExpressCard slot

### B.2 How to install the driver under Microsoft Windows

This section describes the procedures for installing the “Driver” provided in this CD under Windows Vista / XP / 2000

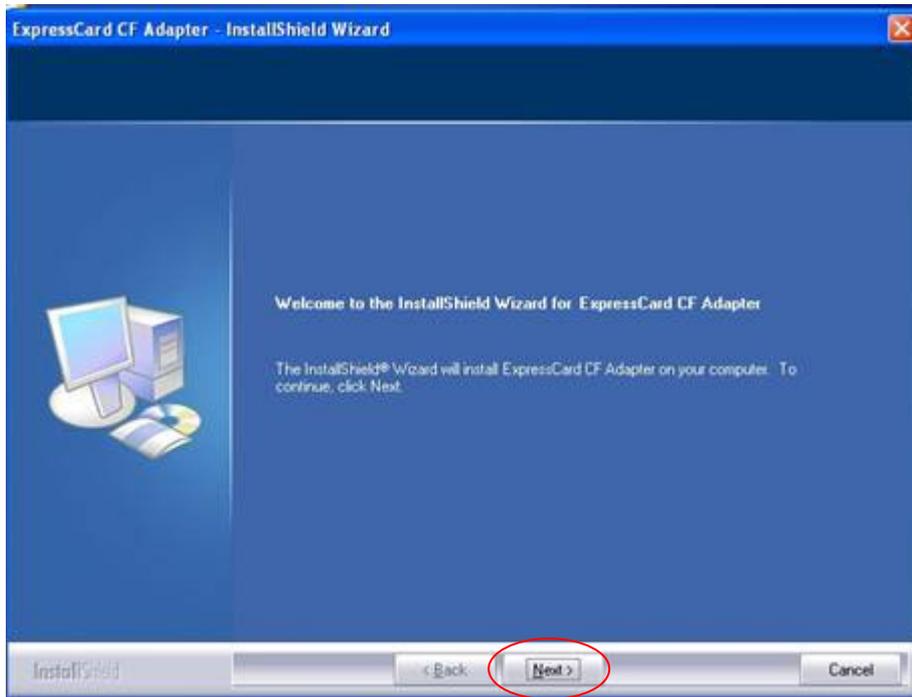
- (A) Before installing the driver, you have to first plug in this adapter into the ExpressCard slot with CompactFlash card inserted;
- (B) Insert the Driver CD into CD/DVD Drive, the following screen will pop-up



→ double-click for running setup.exe

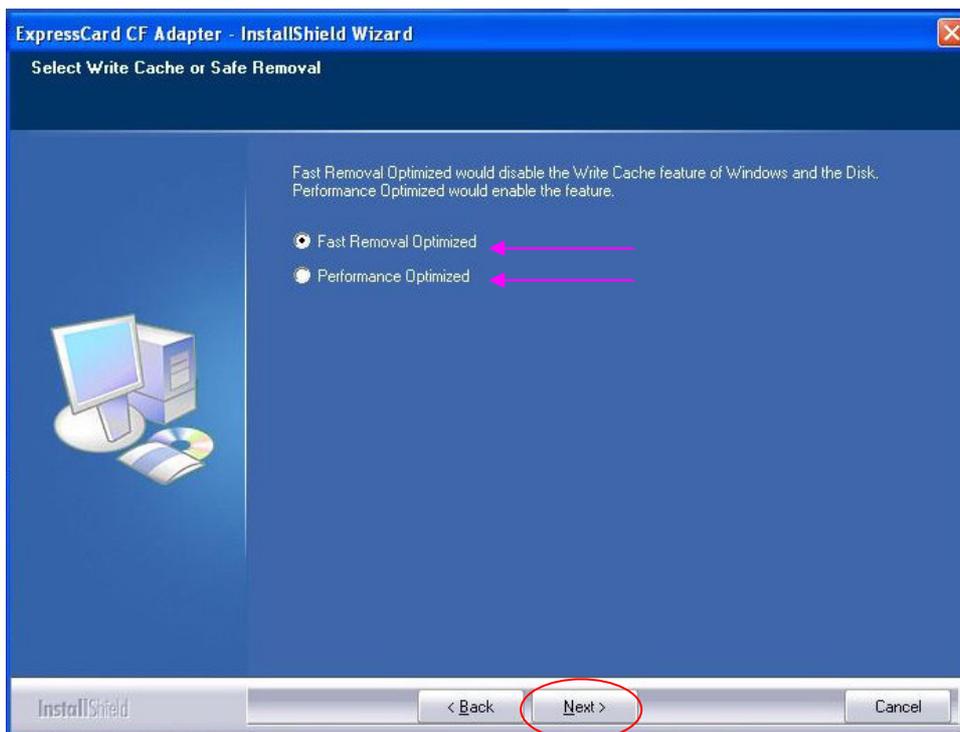
- \* If the above screen does not show up, double-click “Setup.exe” under the folder “Windows” on the CD

(C) The install shield wizard will activate as follows



→ Click next for the following pop-up screen

(D) When the following screen pop-up, please choose the operating mode according to your preference :



**Mode 1 : Fast Removal Optimized**

Under this operating mode, plug-and-play and hot-swapping feature is fully supported. However, the data transfer speed will not be optimized as the “Write Cache” feature is disabled.

**Mode 2 : Performance Optimized**

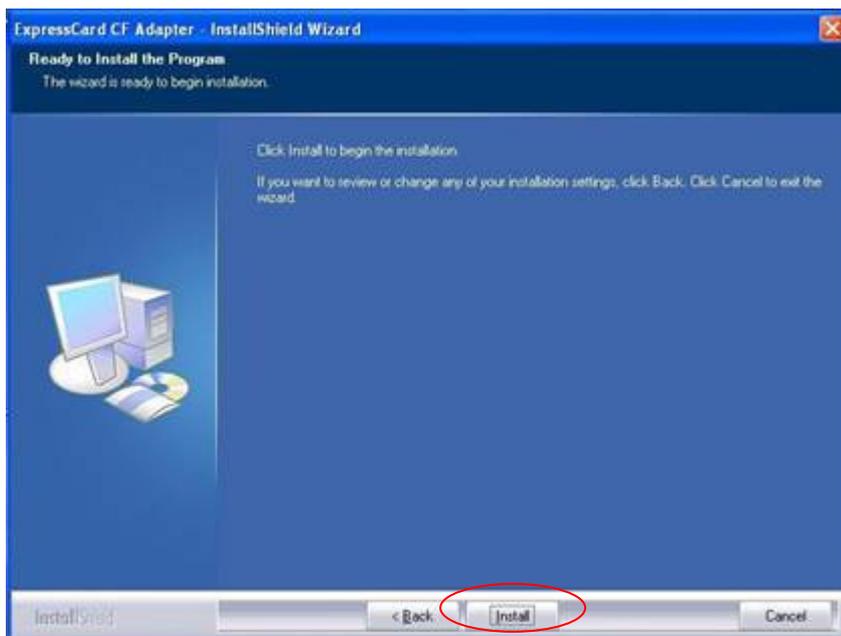
Under this operating mode, user MUST perform “safely remove hardware” as the “Write Cache” feature is enabled.

**Important :**

Under this Performance Optimized mode, you may lose the data copied in the CF card if the Adapter or CF card is physically removed WITHOUT performing “Safely Remove Hardware”

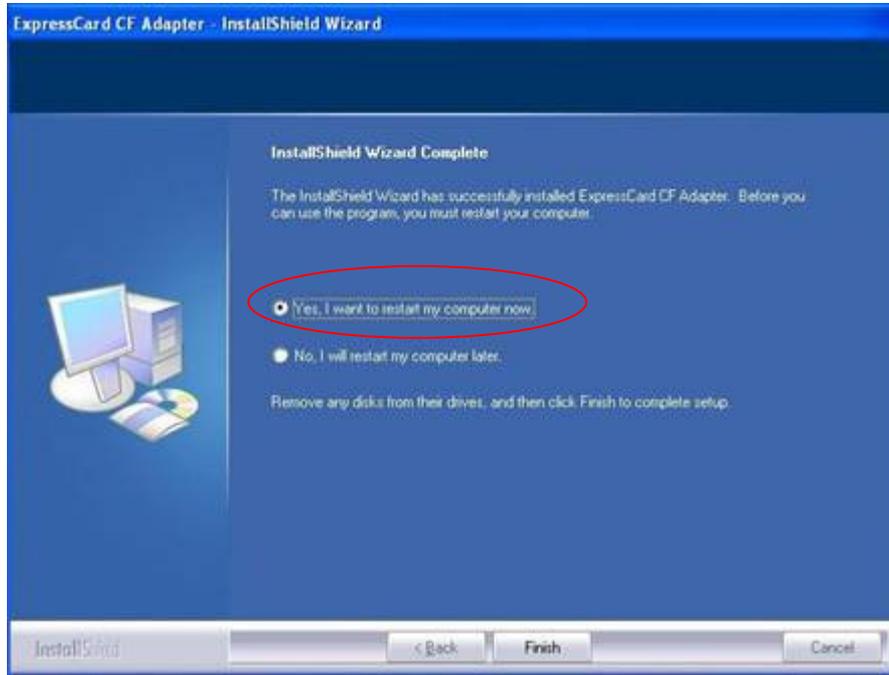
\* For difference between these two modes of operation, please refer to pp. 5 & 6

(E) Upon the above selection, click “install”, the driver will begin the installation



Please wait for around 5 seconds before the “Installation Progress Bar” pop-up

(F) Upon completing the installation, please re-boot the system by choosing



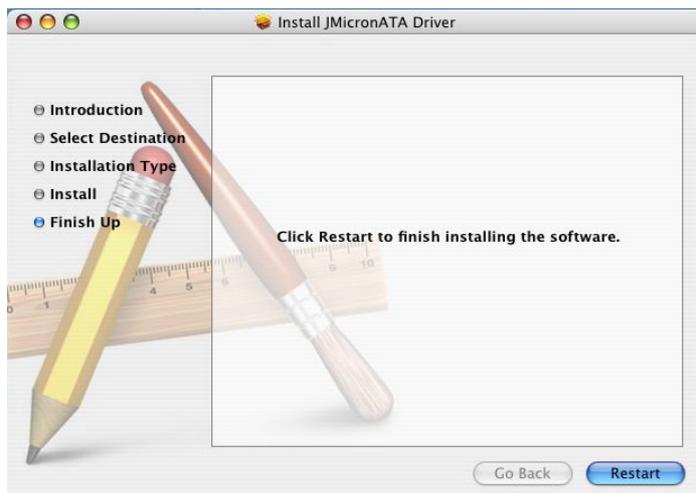
### B.3 How to install the driver under Mac OS

This section describes the procedures for installing the “Driver” provided in this CD under Mac OS 10.4.X and 10.5.X

- A) Before installing the driver, you have to first plug in this adapter into the ExpressCard slot with CompactFlash card inserted
- B) Insert the Driver CD into CD/DVD player, under the folder “Mac”, double-click the file named “JMiconATA”
- C) The Driver Installer will activate as follows, click “continue” to proceed



- D) Upon completing the installation, please re-boot the system by choosing “Restart”

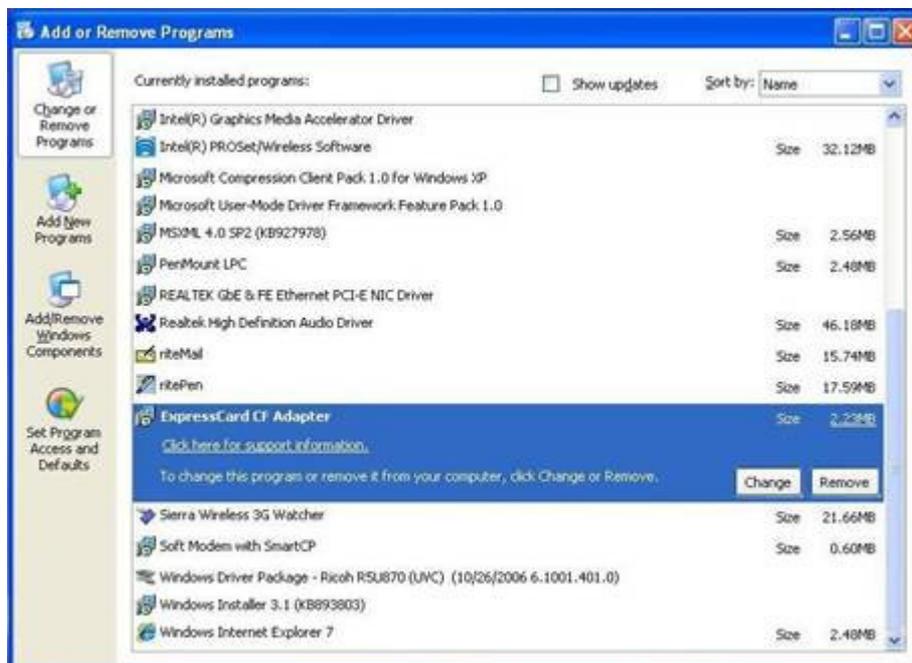


**Remark :**

1. Due to the difference in OS architecture between Windows and Mac, only "Performance Optimized Mode" is supported for Mac OS. Thus, it is highly recommended to perform "Safely Remove Hardware" (i.e. press eject button or drag the device into "Trash")
2. Although there is a native driver pre-installed for Mac OS 10.5.X. However, this driver was originally designed for PATA harddisk device of which hot-swapping feature is not enabled. In order to avoid any compatibility issue by hot-plugging this Adaptor, it is highly recommend to install the driver provided in Mac OS 10.5.X.

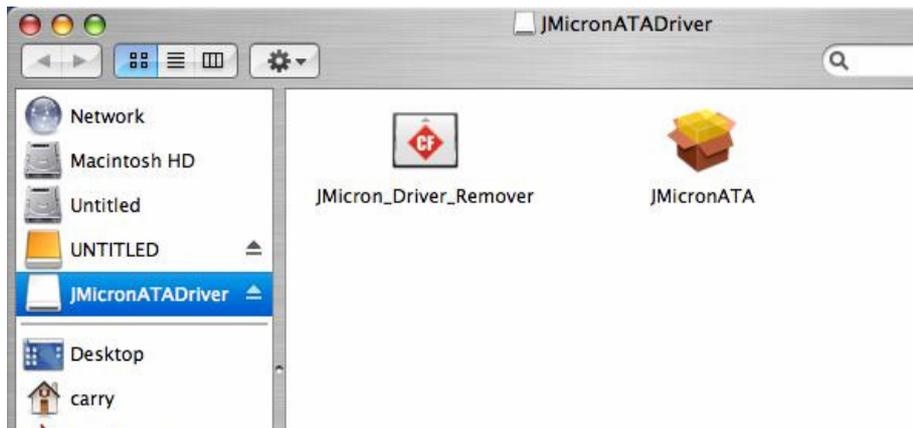
## B.4 How to Un-install the driver under Windows OS

- A. Before un-installing the driver, you have to ensure that this Adapter with CompactFlash card had been plugged-in the ExpressCard slot
- B. In the “Control Panel”, double-click the icon “Program / Function”
- C. Select “ExpressCard CF Adapter” and right-click for removing the program from the system



## B.5 How to Un-install the driver under Mac OS

- A. Insert the Driver CD onto your computer, under the folder “Mac”, double-click the file named “JMicron\_Driver\_Remover”



- B. The following screen will pop-up, click “OK” if you are sure to un-install the driver. The un-installation program will start



- C. Upon completing the un-installation, please re-boot the system by choosing “Restart”

