



NitroAV FireWire800/1394b Express Card (34mm) Installation Guide

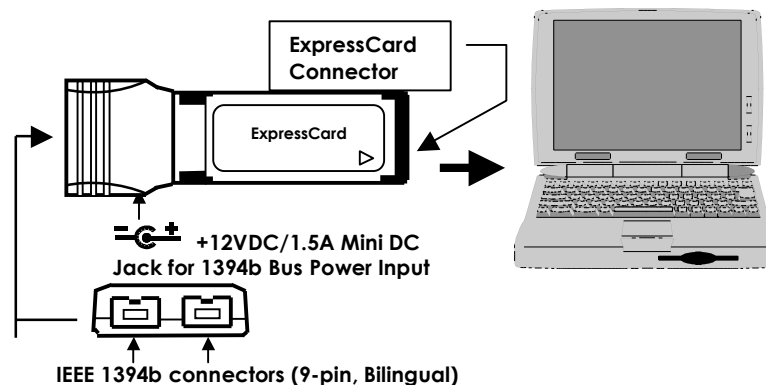
1. Introduction

Thank you for purchasing the NitroAV "ExpressWay Series" 1394b/FireWire800 34mm Express Card. Express Card technology promises faster throughputs and flexibility. NitroAV specializes in 34mm version because they are backwards compatible with 54mm Express Card slots. It supports Notebook OSX, Windows and Linux (latest rev) with an Express Card Slot. Express Card is the newest expansion slot for modern Notebook and Laptop computers.

Features:

- ✓ Fully IEEE1394b OHCI compliant, integrated TI OHCI chip-set, 34mm Express Card form factor.
- ✓ Up to 800Mbps/sec IEEE 1394b FireWire800 transfer rate
- ✓ Supports two 9-pin IEEE 1394b FireWire800 connectors
- ✓ Provides a mini-DC-jack for 1394 bus power input

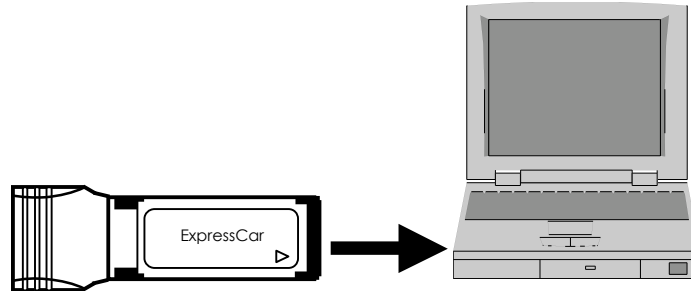
2. Layout



3. Installing the Express Card

The 'ExpressWay Series' makes the installation of the Express Card quite easy.

1. Before touching the Express Card, please touch any metal surface with your hand to discharge any potential static.
2. With the color label facing up, insert the Express Card into the Notebook's Express Card slot.



3. **WINDOWS "Add New Hardware Wizard"** window displays. Follow the on screen instructions to complete the hardware driver installations. *(read further for details)*
4. **MacOSX 10.4.7 (MacBookPro)** System will recognize the Express Card through the system profiler or the card tab in top menu bar. *(read further for details)*
5. **Installing FireWire (IEEE 1394) cables**

The IEEE 1394b Express Card has two external IEEE1394b 9-pin connectors. The cables can be used as follows (they may not be included with this Express Card):

1394 Connectors	Available 1394 Cables
9-pin 1394b connector	9-pin to 9-pin 9-pin to 6-pin 9-pin to 4-pin



Note: The Express Cards do NOT supply the power over the bus to the FireWire cables. All devices attached to the Express Card need to utilize their own power supplies, or you need an AC adapter to provide the power through the Mini DC-Jack on the Express Card (at the side of the Express Card). However, not all 1394 devices need the bus power. The DV camcorder does not use the bus power, for example.

4. Supported Operating Systems

This Express Card can be hot-plugged to your notebook PC due to its specifications. It supports the following operating systems (obvious requirement is the computer must have a Express Card slot):

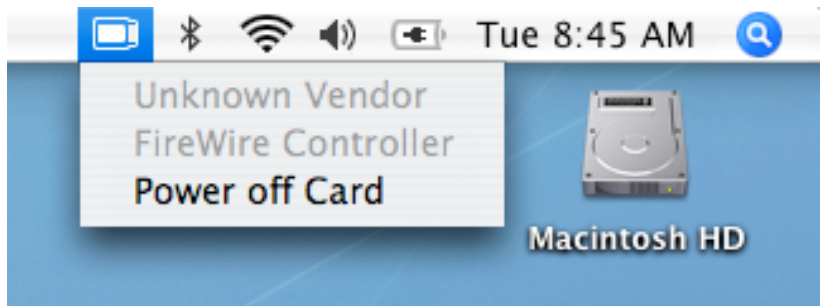
OS w/Express Cards slot	Driver Supports (Kernel)
Win 2000	Yes (Note 1)
Win XP	Yes (for SP2)
MacOSX 10.4.7 (MacBookPro)	Yes (Intel Based)

5. Operating Systems OSX Notes

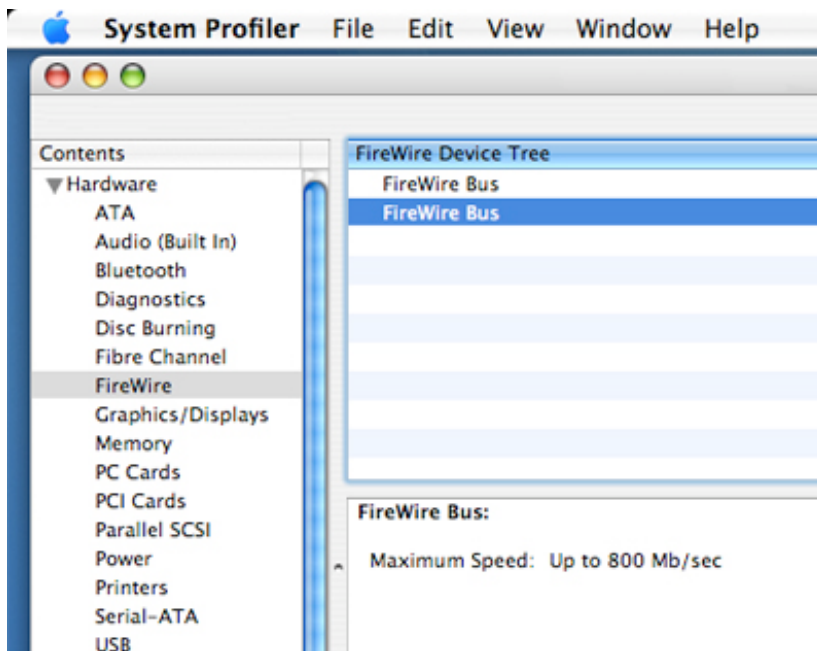
The NitroAV Express Card can be hot-plugged into your MacBookPro. Make sure you have version OSX v10.4.7 or higher installed. Gently slide the ExpressCard into the MacBookPro until you feel and hear the card 'click into' place. A few seconds after the card is correctly seated you should see an ExpressCard (Cardbus like icon appear in the menu bar)



If you select the icon, then you should see the following screen. We are working with Apple so that in future releases we hope it will display additional card information.

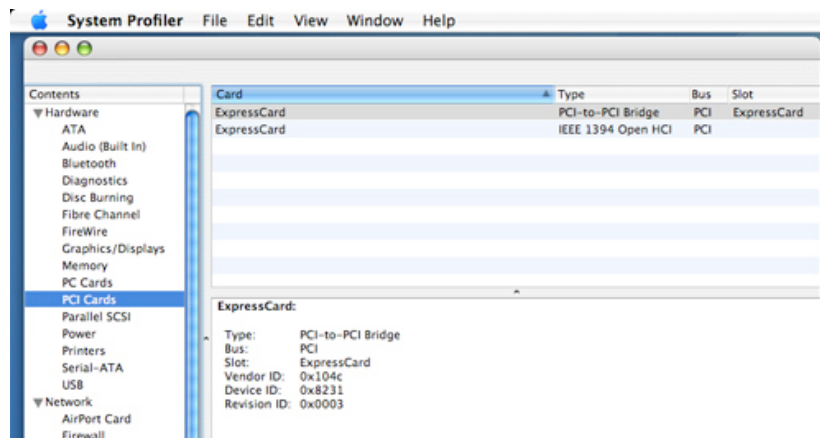


To verify your MacBookPro recognizes the NitroAV ExpressCard correctly, please open your System Profiler (application) located in your Utilities folder. When opened, please select 'FireWire' under the Hardware menu, and you should see two different buses. Clicking on them will show which bus that specific FireWire channel is supporting.



Then please also select 'PCI Cards' from the selections under hardware, and your screen should also show the 'Express Cards' & 'IEEE 1394 Open HCI'. If you have a 17" MacBookPro then under 'FireWire' you will see the different buses.

If you can perform these three steps and verify the fields, then you are all set to start plugging in FireWire devices. One thing that has been reported in some instances - the ExpressCards do not seat as well as the older style CardBus (PCMCIA – Type II) adapters.



6. Safely Removing the Express Card

MacOSX:

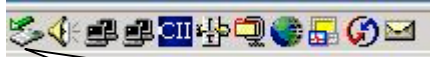
When removing the NitroAV ExpressCard on a MacBookPro it is very important to follow these steps. Mixing these steps can cause the system to hang:

1. Unmount your attached device
2. Under the menu-bar – select “Power Off Card”
3. ‘Click-Out’ the ExpressCard from the MacBookPro

7. Safely Removing the Express Card

Windows 2000/XP:

If you insert the Express Card you will get a "green arrow" icon at the bottom of the screen as you normally would when using FireWire. After clicking this icon you will be allowed to safely remove the Express Card afterwards:



Click this icon before removing the Express Card

8. Installing the ExpressBooster (WINDOWS)

In some cases, if the write performance of your Express Card is not as good as you would like, please install the ExpressBooster software supplied with your card.

1. To install the software, download from the NitroAV.com site the **setup_spbooster.exe** file from the ExpressCard page. Once the software has been copied to your computer, double click the file to run the setup.



2. Follow the setup on-screen instructions. You will be asked to **check the Express Card** item (please **un-check the PCI Express Card** item). Then proceed with the rest of the on-screen instructions to complete the installation.

Please select the system for the installation.

☐ PCI Express Card (for Desktops/Servers)	0 K
☒ Express Card (for Notebooks)	252 K