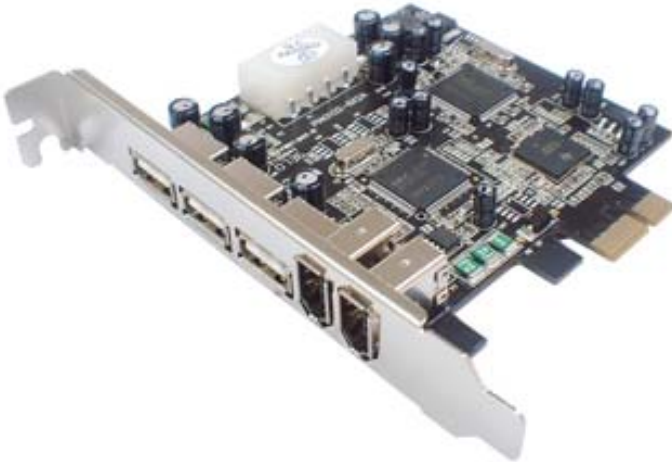




**USB 2.0 / FireWire 400 Interface
PCIexpress Combo-Add-On card**



**User Manual
(DS-30230)**

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Respective owners.**

Features and Benefits

- Compliant with PCI Express Base Specification 1.0a
- Combo design adds three USB 2.0 (480Mbps) and two FireWire (400Mbps) ports into your system
- Hot-swapping feature allows you to connect/disconnect devices without first turning system off

USB 2.0 interface:

- Compliant with USB specification rev. 2.0
- Supports high-speed (480Mbps), full-speed (12Mbps), and low-speed(1.5Mbps) data transfer modes for simultaneous operation of multiple USB 2.0/1.1 devices
- Works with a various type of USB devices including hubs, removable drives, digital cameras, scanner, CD-RWs, DVD-ROMs, PC video cameras, printers, and more...

FireWire (1394a) interface:

- IEEE 1394-1995, 1394a-2000 and OHCI 1.1 standards
- Supports serial bus data transfer rates of 100, 200 and 400Mbps
- Works with various types of 1394 devices including DV camcorder/cameras, hard disk drives, CD-RWs, DVD-ROMs, removable drives, scanners, and other audio/video devices

Bus Interface

- PCI Express x1

Connectors

- 3 x external type A USB ports
- 2 x external 6-pin FireWire 1394a ports

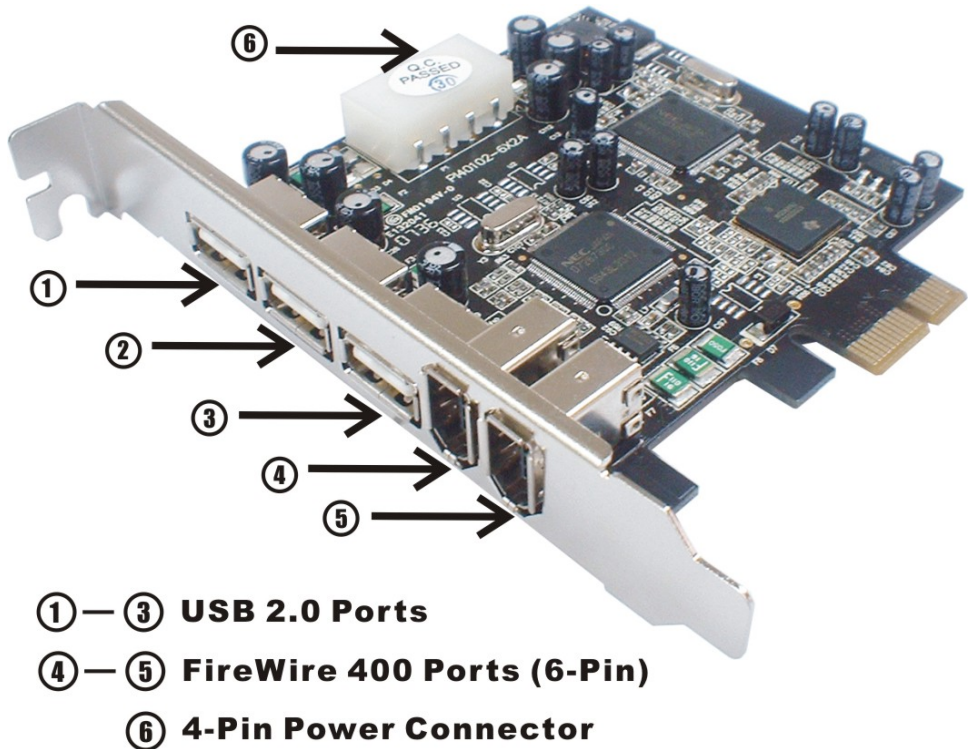
System Requirements

- Windows® 2000 SP4/XP SP1/Server 2003/Vista/7
- PCI Express-enabled system with an available PCI Express slot

Optional Accessories

- Ulead Video Studio CD
- IEEE 1394a Cable

Board Layout



Hardware Installation

1. Turn Off the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card's bus connector with

the selected PCIe slot on the motherboard. Push the board down firmly.

5. Connect the system power source to the board's power connector.
6. Replace the slot bracket's holding screw to secure the card.
7. Replace the computer cover and reconnect the power cord.

Driver Installation

For Windows® 2000/XP/7

Windows® 2000/XP will automatically detect and install the correct driver for the PCIe 1394a + USB 2.0 Card..

However, please ensure you have the latest Service Pack Installed.

For Windows® 2000

- **Windows® 2000 Service Pack 4 or later**

For Windows® XP

- **Windows® XP Service Pack 1 or later**

For Windows® Server 2003/Vista

Windows® Server 2003/Vista has built-in driver support for this controller. Just install the board and Windows will automatically detect and install the correct drivers for it. No additional driver is necessary.

To Verify Driver Installation

1. Right click **My Computer**, click **Manage**, and then click **Device Manager**.
2. Double click **IEEE 1394 Bus host controllers** option and a **NEC OHCI Compliant IEEE 1394 Host Controller** should be displayed.
3. Double click **Universal Serial Bus controllers** and the following options should be displayed, in addition to other that may come with your system.
 - **NEC PCI to USB Open Host Controller**
 - **Standard Enhanced PCI to USB Host Controller**
 - **USB Root Hub (USB 2.0 Root Hub in Windows® 2000)**
 - **USB Root Hub**