

## FireboardBlue-e™ 1394a OHCI PCI-Express adapter

FireboardBlue-e™ is a fast and reliable PCI Express x1 add-in interface card for all external FireWire-enabled devices. Now, Digital Cameras, Hard Drives, CD/DVD drives and Digital Camcorders can be connected to FireboardBlue-e™ in a snap.

FireboardBlue-e™ is a 2-port, single chip, OHCI-compliant 1394/FireWire® host PCI Express adapter for PC systems that provides plug 'n' play connectivity for FireWire® devices and peripherals.

### Operating Systems Supported

- Windows 98SE/Me/2000/XP/2003/Vista/XP 64 bit
- Mac 10.x
- Linux

Unibrain's FireboardBlue-e™ offers the following features:

- Texas Instruments XIO2200A PCI Express to PCI Bus Translation Bridge with 1394a OHCI.
- Two (2) FireWire ports.
- OHCI Compliant/Compatible with any FireWire device or peripheral.
- 400Mbps - up to 50MB/sec data rates.
- Internal power connector.
- Supports 100, 200 and 400 Mbps throughput.
- Enables data transfer of real time copying for large files using Unibrain's FireNet™.
- Due to its 4 isochronous transmit/receive contexts the FireboardBlue-e™ host adapter has the exceptional feature to simultaneously control and display up to 4 FireWire digital cameras.



### Ordering Information (Part numbers)

- FireboardBlue-e™: **1213**
- Kit with 2m 1394a 6pin to 6pin cable: **1214**
- FireboardBlue-e™ with Fire-i / Fire-i API™ SDK license: **1134**
- FireboardBlue-e™ with FireAPI™ SDK license: **1711**

### Application/Device Support

#### IIDC Digital Cameras

FireboardBlue-e™ can connect up to 63 IIDC firewire digital cameras in a peer-to-peer topology. Using Unibrain's Fire-i™ Software you can connect up to 63 Fire-i™ cameras and simultaneously control and display up to four (4) of them, thus providing the perfect monitoring home/office solution.

#### External Hard Drive

You can connect a multiple array of external FireWire devices such as CD-R/W or DVD drives easily. Just plug-in any SBP2 FireWire External Hard Drive to the installed FireboardBlue-e™ adapter and immediately add storage to your PC. Unibrain's FireboardBlue-e™ has been thoroughly tested to operate seamlessly with Unibrain's entire range of External FireWire Hard Drives as well as any third party external storage devices.

#### Firewire Networking

FireboardBlue-e™ is suitable for network applications (gaming or other). Using Unibrain's FireNet™ Software you can connect two or more computers in a peer-to-peer Network at 400Mbps.

#### Digital Video

Simply connect any DV Camcorder to your PC via Unibrain FireboardBlue-e™ Host Adapter. Capture, produce and share your digital video, with any digital video application from your PC.

## FireboardBlue-e™ technical specifications

FireboardBlue-e™ is an IEEE-1394 PCI Express OHCI single chip Host Adapter Board with two 1394 ports.

Unibrain's FireboardBlue-e™ Host Adapter brings high-performance IEEE-1394 technology to PCI Express systems. Based on the Texas Instruments XIO2200A, a PCI Express to PCI Bus Translation Bridge with 1394a OHCI and Two-Port PHY provides high performance serial connectivity. The XIO2200A is capable of transferring data between the PCI Express x1 bus and the 1394 bus at 100Mbps/sec, 200Mbps/sec, and 400Mbps/sec. FireboardBlue-e™ provides two IEEE 1394a-2000 Fully Compliant Cable Ports.



### Features

#### Integrated Physical Layer

- Two IEEE Std 1394a-2000 Fully Compliant Cable Ports at 100M Bits/s, 200M Bits/s, and 400M Bits/s
- Cable Ports Monitor Line Conditions for Active Connection To Remote Node
- Cable Power Presence Monitoring

#### Embedded 1394 Link Core

- Fully Compliant With Provisions of IEEE Std 1394-1995 for a High-Performance Serial Bus and IEEE Std 1394a-2000.
- Fully Compliant with 1394 Open Host Controller Interface Specification, Revision 1.1
- Full IEEE Std 1394a-2000 Support Includes: Connection Debounce, Arbitrated Short Reset, Multispeed Concatenation, Arbitration Acceleration, Fly-by Concatenation, and Port Disable/Suspend/Resume

#### PCI Express

- Full x1 PCI Express Throughput
- Fully Compliant with PCI Express to PCI/PCI-X Bridge Specification, Revision 1.0
- Fully Compliant with PCI Express Base Specification, Revision 1.0a

#### Configuration Serial EEPROM

#### Low Power Dissipation Circuitry

#### External power (+12V) connector

All FireboardBlue-e™ power for the XIO2200A and any bus power provided to the 1394 connectors are provided or derived from the standard voltages provided on the PCI-Express connector. However due to the limited availability of 12-V current (for 1394 bus power) an option has been provided to power 12-V rail from an external 4-pin floppy drive connector if using bus-powered 1394a devices which require more than the 500 mA that can be drawn (by specification) from the PCI Express x1 Connector.

#### FCC / CE Compatibility and EMI, EMC testing

FireboardBlue-e™ has successfully passed the EN 55022 (Emissions Environment) and EN 55024 (Immunity Environment) EMI test procedures. Subsequently, this product is fully CE compliant and assigned with the CE mark. Moreover the board is FCC compliant.

R	T	Test Description	Standard
X	X	Conducted emissions	EN 55022
X	X	Radiated emissions	EN 55022
X	X	Electrostatic discharges	EN 61000-4-2
X	X	Radiated E.M. fields	EN 61000-4-3
X	X	Fast transient burst (EFT)	EN 61000-4-4

R: Required, T: Tested

#### Environmental Compliances

- RoHS Compliant
- WEEE Compliant