

## PCI 6152 Key Features

- ◆ PCI Bridging up to 66MHz
- ◆ 300mW Power Consumption
- ◆ 15 x 15 mm Tiny BGA Package
- ◆ PQFP Package Option
- ◆ Pin Compatible with 21152

## Other Important Features

- ◆ 3.3V signaling, including 5V input signal tolerance
- ◆ Supports delayed transactions for PCI configuration, I/O and memory read commands
- ◆ Hot swap friendly
- ◆ Zero wait state burst
- ◆ Provides memory write data buffering in both directions
- ◆ Provides concurrent primary and secondary bus operation to isolate traffic
- ◆ Provides separate arbitration support for individual secondary port
- ◆ Programmable 2-level arbiter
- ◆ Enhanced address decoding
- ◆ 32-bit I/O and memory address decoding
- ◆ Three-stating of I/O during power up and power down

## Application:

### *Dual TV Tuner PCI Add-in Card*

## PLX Product:

### *PCI 6152 – 32-bit FastLane PCI Bridge*

## Key Benefit:

### *Provides Load Expansion*

## Dual TV Tuner Cards Require Small Footprint PCI-to-PCI Bridges

Dual TV Tuner PCI cards use PCI-to-PCI bridges to handle the loading from the two tuner modules as well as the loading from the other PCI devices deployed on the card. The traditional Intel bridges are too costly and

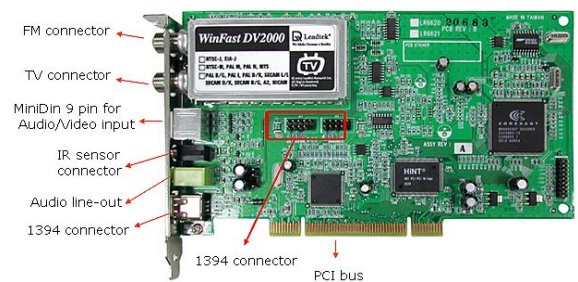
require too much board space for this high volume consumer application. The low-cost PCI 6152 from PLX has the industry's smallest footprint (15 x 15mm),

which is less than one quarter of the size of the standard Intel device.



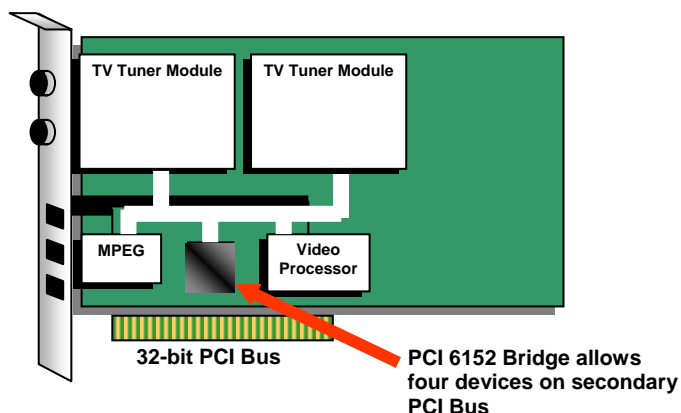
## The PCI 6152 Allows Low-Cost Load Expansion

On most Dual TV Tuner PCI cards, there normally is more than one PCI device residing on the card. These PCI devices may be, but are not limited to, Tuner modules, MPEG Decoders/Encoders, Audio Processors, RISC CPU's, and various other multimedia devices. The PCI Specification allows each PCI slot only one device load. In order for multiple devices to reside on the card, the PCI 6152 provides an isolated PCI bus on its secondary. This bus can handle up to four PCI devices at 33MHz.



## Bus Load Basics

The PCI spec allows four slots at 33MHz and two slots at 66MHz. The PCI 6152 supports both sets of maximum loading conditions. If you have a 66MHz application, then be sure to specify the PCI 6152-CC66BC, which is designed to support bridging up to 66MHz.



## The Smallest Footprint

The PCI 6152 is the smallest FastLane device, with a TinyBGA footprint of 15 mm x 15 mm. This makes the 6152 ideal for low-profile PCI cards and other PCI cards that have board space limitations.



## Lead Free Packaging NOW!

Both the Tiny BGA and PQFP versions are available in lead-free ROHS-compliant versions as well as the traditional leaded packages.

## PLX Advantages

- ◆ The industry's best PCI expertise and support
- ◆ Smallest Footprint Bridge (15 x 15mm)
- ◆ Ultra Low Power (300mW)
- ◆ Low cost

## Design Tools & Documentation:

### On PLX Public ToolBox:

[http://www.plxtech.com/products/fastlane\\_bridges/PCI6152/default.asp](http://www.plxtech.com/products/fastlane_bridges/PCI6152/default.asp)

- ◆ DataBook, IBIS Models, App Notes, Product Brief, Hspice Models

Part Number	Package	Speed
PCI 6152-CC33PC	Standard Leaded PQFP Package	33 MHz
PCI 6152-CC33PC G	Lead-Free ROHS Green PQFP Packaging	33 MHz
PCI 6152-CC66BC	Standard Leaded TBGA Package	66 MHz
PCI 6152-CC66BC F	Lead-Free ROHS TBGA Package	66 MHz
PCI 6152-CC66BC	Standard Leaded TBGA Package	66 MHz
PCI 6152-CC66BC F	Lead-Free ROHS TBGA Packaging	66 MHz

## Contact Information

PLX Technology, Inc.  
 870 Maude Ave.  
 Sunnyvale, CA 94085 USA  
 Tel: 1-800-759-3735  
 Tel: 1-408-774-9060  
 Fax: 1-408-774-2169  
 Applications Support: Local FAE  
 Product Marketing:  
 Steve Moore [smoore@plxtech.com](mailto:smoore@plxtech.com)  
 Web Site: [www.plxtech.com](http://www.plxtech.com)

© 2005 PLX Technology, Inc. All rights reserved. PLX and the PLX logo are registered trademarks of PLX Technology, Inc. ExpressLane, PowerDrive and the PowerDrive logo are trademarks of PLX Technology, Inc., which may be registered in some jurisdiction. All other product names that appear in this material are for identification purposes only and are acknowledged to be trademarks or registered trademarks of their respective companies. Information supplied by PLX is believed to be accurate and reliable, but PLX Technology, Inc. assumes no responsibility for any errors that may appear in this material. PLX Technology, Inc. reserves the right, without notice, to make changes in product design or specification.

6152-SIL-EA-1.0