

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),

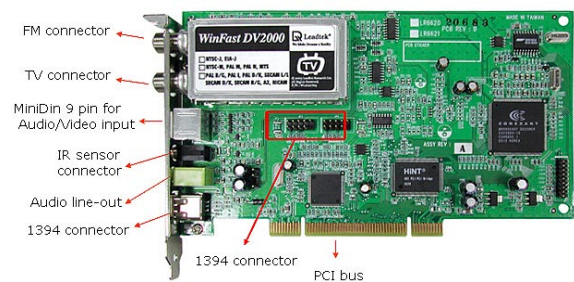
which is less than one quarter of the size of the standard Intel device.



The PCI 6152 Allows Low-Cost Load Expansion

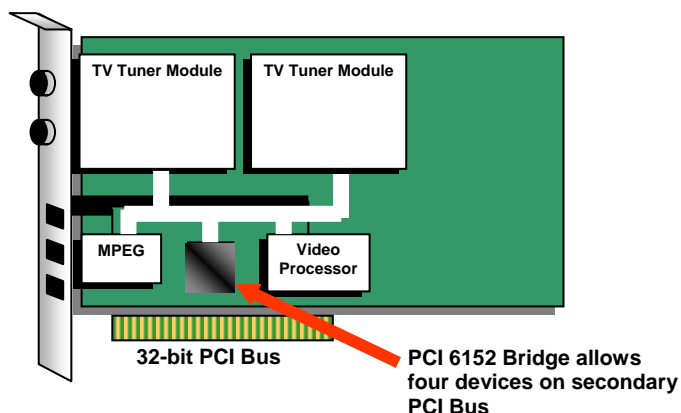
On most Dual TV Tuner PCI cards, there normally is more than one PCI device residing on the card. These PCI devices may be, but are not limited to, Tuner modules, MPEG Decoders/Encoders, Audio Processors, RISC CPU's, and various other multimedia devices. The PCI Specification allows each PCI slot only 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

- ◆ 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

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6152-SIL-EA-1.0