

PEX 8111 Key Features

- ◆ Supports Both Forward- and Reverse-Mode PCI Express to PCI Bridging
- ◆ Small Package Size
 - 10x10mm Fine-Pitch BGA
 - 13x13mm Std-Pitch BGA
- ◆ Low Power (400mW)
- ◆ Single (x1) PCI Express Lane
- ◆ 32-bit/66 MHz PCI Interface

Other Features

- ◆ Large 8KB Internal FIFO
- ◆ Completely integrated PCI Express PHY
- ◆ 128 byte maximum PCI Express payload size
- ◆ PCI Express Flow Control Buffering
- ◆ Eight (8) outstanding PCI Express Transactions
- ◆ External EEPROM configuration option
- ◆ Four (4) GPIO pins for maximum design flexibility
- ◆ 3.3V I/O and 5V tolerant PCI
- ◆ JTAG
- ◆ External arbiter or internal programmable arbitration for up to four bus masters
- ◆ Option to provide PCI clock
- ◆ Supports PCI and Virtual Interrupts (MSI)
- ◆ Lead-free packaging also available

Application:

PCI Express Cards - Easy & Quick Conversion from PCI

PLX Product:

PEX 8111 – x1 PCIe-to-PCI Bridge

Key Benefit:

Expand your Business Quickly!

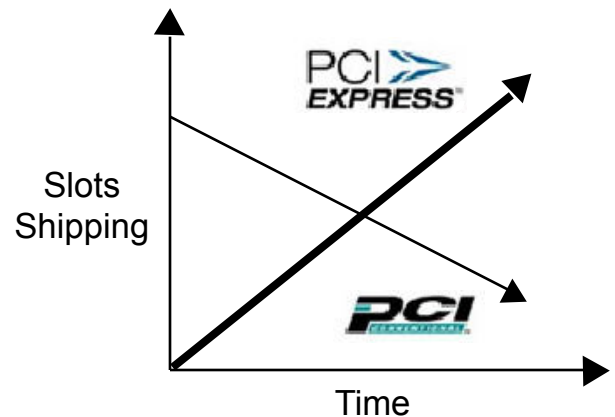
Need for PCI Express Cards Growing



Most of the new PCs & servers shipping today from the major manufacturers are based on PCI Express (PCIe) rather than PCI. These products continue to expand the number of PCI Express slots while they decrease the legacy PCI and PCI-X slots. For example, if you visit the Dell web site and do a

search on the word “PCI Express” you will see over 1000 products today.

Some manufacturers are driving hard to eliminate all the PCI slots in the not to distant future. Chip Set suppliers like Intel and Nvidia are also driving this trend.



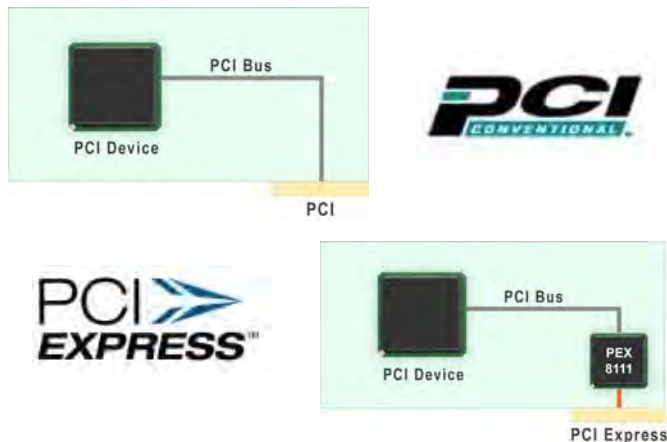
To stay competitive, PCI card manufacturers have no choice but to offer a complete line of PCI Express based products. Some can justify entirely new designs using the latest PCI Express silicon and others are looking for easy and low cost ways of expanding their product line quickly.

Quick Solution: Small 10x10mm PCI to PCIe Bridge



PLX has a great solution that allows PCI card vendors to leverage their investment by quickly adding a PCI to PCI Express Bridge. The result is a PCI Express card that can be brought to market in

parallel to your current PCI product offering.

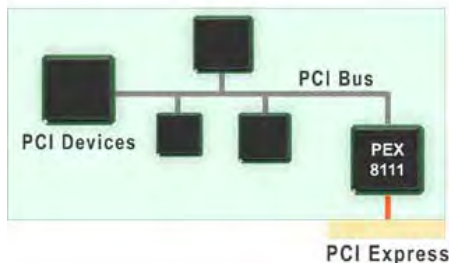


This allows you to get to market quickly and start selling a product to this fast growing market. You can always replace the bridge solution down the road if the Return on Investment (ROI) can be justified with an entirely new PCIe design.

Support for Multiple PCI Devices

The PEX 8111 will support up to 4 loads on the PCI bus so it can also support multiple PCI native devices on the card.

The PEX 8111 from PLX supports up to a 66MHz, 32-bit PCI bus and converts it to a single x1 lane of PCI Express. It can be used in both a forward mode as described above or in a reverse mode.



Make the Conversion Today!

The PEX 8111 from PLX supports up to a 66MHz 32-Bit PCI bus and converts it to a single x1 lane of PCI Express. It can be used in both a forward mode as described above or in a reverse mode. The PEX 8111 is in production today and samples are in stock at PLX.

The PEX 8111 requires only *1 square centimeter* of additional board real estate to convert the PCI interface to PCIe. And, the bridge only draws 400 milliwatts of additional power.

Test Design Concept Now With Rapid Development Kit

The PEX 8111 Forward Mode Rapid Development Kit (PEX 8111RDK-F) provides a quick utility to prove out your design concept. The RDK offers a known, working hardware environment. You can take your existing PCI Card and plug it into this card to prove out the concept. The RDK will be able to plug into a PCI Express socket with your card on the other side of the bridge.

Design Tools & Documentation:

On PLX Public ToolBox:

http://www.plxtech.com/products/pci_express/PEX8111/default.asp

- ◆ Data Book, Product Brief, IBIS Models, HSPICE Models, BSDL Files

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