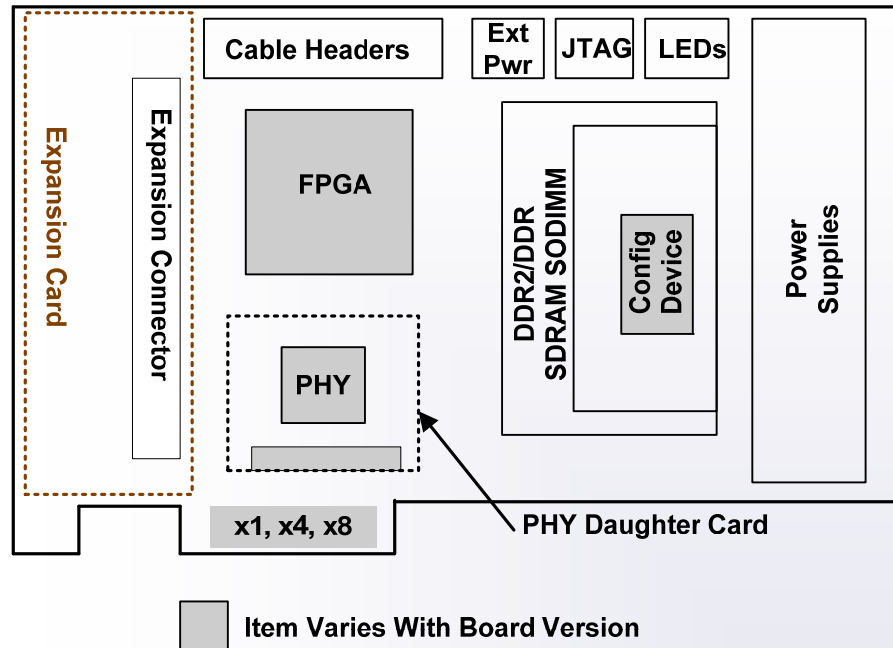


## Product Highlights

- Enables a complete PCI Express system to be quickly prototyped
- Provided with the PCI Express GUI, Driver and Reference Design in binary
- Broad variety of FPGA and lane configurations are available
- Broad variety of PHYs supported using PHY Daughter Cards
- Functionality can be easily expanded using an Expansion Card
- Cable headers available to connect to a logic analyzer or another board/system
- On-board JTAG supports internal FPGA Logic Analyzer function
- Complete Built-In Self Test
- PCI Express™ Card Electromechanical Specification Revision 1.1 compliant
- Expansion Card and complete PCI Express Card development services available

## Block Diagram



## Product Overview

Northwest Logic's PCI Express Development Boards enable a complete PCI Express system to be quickly prototyped.

The boards come in several FPGA and lane flavors (x1, x4, x8). The boards that use a low-cost FPGA device can be used with a variety of discrete PHYs. These PHYs are connected to the board using a PHY Daughter Card which is provided with the board.

The board's functionality can be easily expanded using an Expansion Card which connects through the impedance-controlled, matched trace length Expansion Connector. The board can also be connected to a logic analyzer or another board/system using the cable headers.

The board is provided with a GUI, Driver and FPGA binaries to demonstrate and test the board.

Northwest Logic also provides a complete set of quick-turn design services including IP Customization and Logic, Board, Software Development services. Contact Northwest Logic for a quote.

### Board Deliverables:

- Main Board
  - 256 MB DDR2/1 SDRAM SO-DIMM
  - PCI Express Bracket
- PHY Daughter Card (if needed)
- Loopback connectors
- FPGA Design (Binary)
  - PCI Express Complete Core
  - DDR2 SDRAM Controller Core
- Windows DMA Driver (Binary)
- PCI Express GUI (Binary)
- Board User's Guide
- Schematics (PDF)