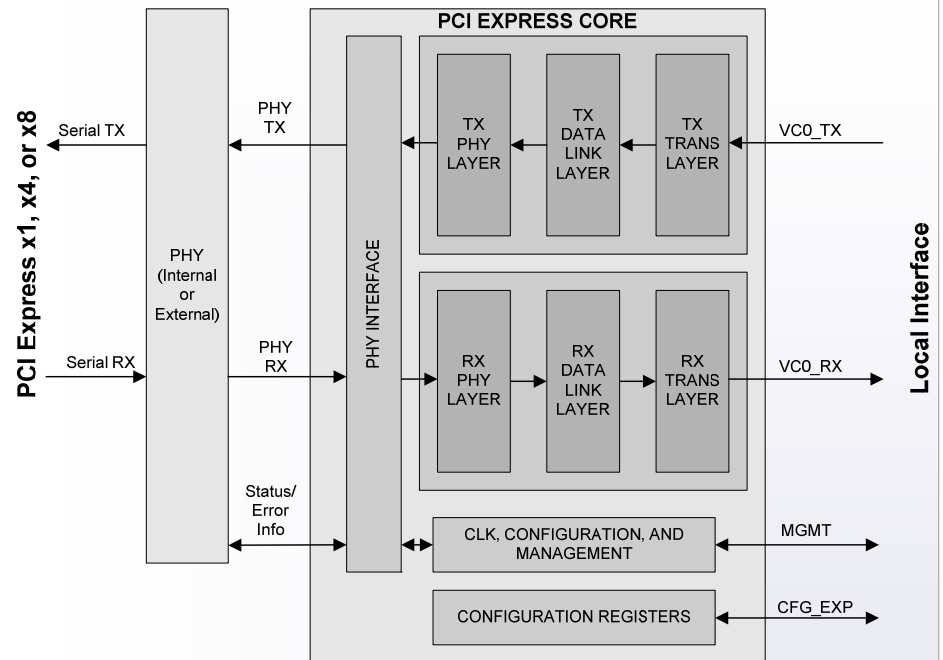


Product Highlights

- High-performance, easy-to-use core
- Endpoint and Root Port support
- x1, x4, x8 lane versions available
- 32 and 64 bit address support
- Legacy interrupt and MSI support
- Status Port provides detailed access to low-level core status and data
- Complete PCI Express PHY support including integrated PHY FPGAs, discrete PHY chips and PIPE-compliant ASIC PHYs
- Provided with a full-featured Verification Suite
- PCI Express™ Base Specification Revision 1.1 compliant
- Fully hardware validated and PCI-SIG certified
- Source code available
- Customization and Integration services available

Block Diagram



Product Overview

The PCI Express core has been specifically designed for ease-of-use including:

- Hides the complexities and timing issues of the PCI Express bus from the user
- Built-in receive packet decoding simplifies user packet processing
- Supports user expansion of Configuration Space
- Complete error-handling support including error detection and automatic generation of error messages
- Comprehensive status port provides detailed access to internal core states and traffic accelerating design bring-up and validation
- Achieves push-button timing with minimal routing constraints in low-speed grade FPGAs

A broad range of PCI Express PHYs are supported including the integrated PHY FPGAs, discrete PHY chips (Genesys Logic, NXP, TI) and PIPE-compliant ASIC PHYs.

The core is provided with the PCI Express Verification Suite which provides a full-featured PCI Express Bus Functional Model.

Northwest Logic also provides board support packages for a wide variety Northwest Logic and third party PCI Express boards. This support packages including a working FPGA design, Driver and GUI binaries. Contact Northwest Logic for more information.

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.

Product Deliverables:

- Core (Netlist or Source Code)
- Comprehensive Verification Suite (Source Code)
- Complete Documentation
- Expert Technical Support & Maintenance Updates