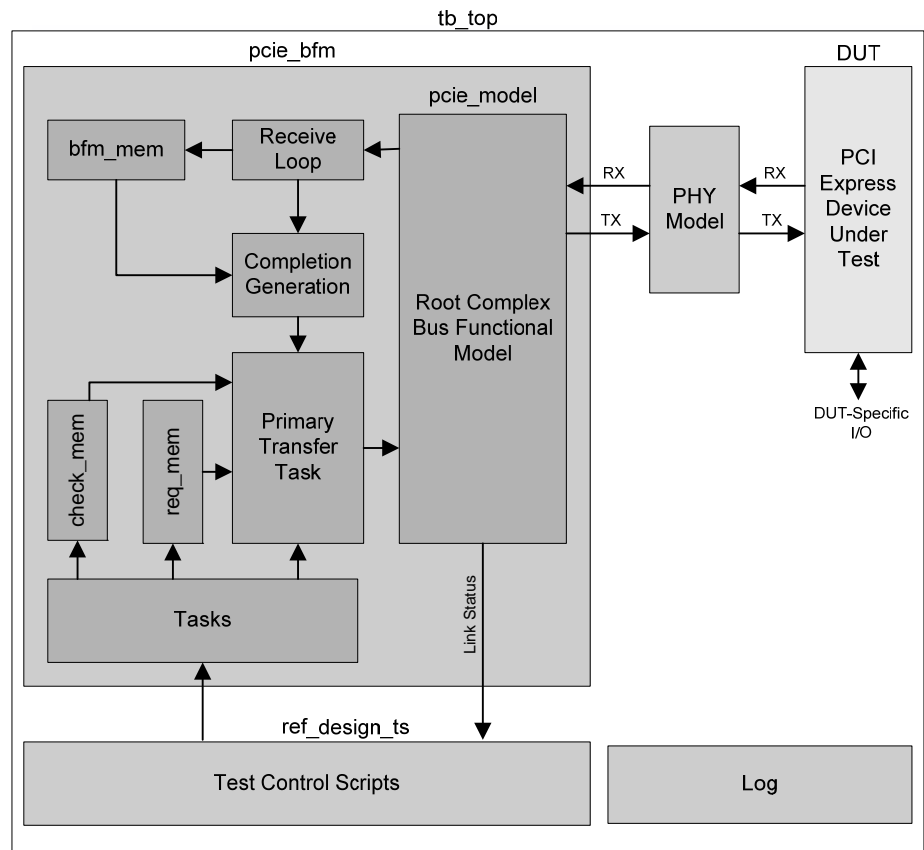


Product Highlights

- Emulates a Root Complex device enabling end-to-end simulation of a PCI Express design
- Simple test control scripts are used to generate Root Complex master requests
- Automatically response to DUT master requests
- Suite automatically responds to DUT master requests
- Automatically performs slave operations in response to DUT master transactions
- Performs automatic data logging and checking
- Provided with an extensive set of test control scripts
- PHY Models provided for supported PCI Express PHYs
- Specifically designed for quick out-of-the-box setup and use
- Faster simulation speed than full-featured PCI Express Compliance Suites
- PCI Express™ Base Specification Revision 1.1 compliant



Block Diagram

Product Overview

Northwest Logic's PCI Express Verification Suite emulates a Root Complex device enabling end-to-end simulation of a PCI Express design.

This includes the follow features:

- Root Complex master requests are generated using simple test control scripts. An extensive set of scripts is included with the suite to generate standard PCI Express transactions including configuration, data transfers, DMA and interrupts.
- Automatic response to DUT master requests including providing completion responses.
- Full modeling of Root Complex memory regions. These memory regions are used store data being send to and received from the DUT. The data in these memory regions can be automatically checked to insure proper operation.
- Performs Root Complex physical and data-link layer functions including error detection and correction
- Logging and display of all transaction layer traffic on the PCI Express bus in a user-friendly format.

Northwest Logic offers PCI Express PHY models for all sup-

ported PHYs. If available, third-party PHY models can also be easily integrated with the suite. Northwest Logic PHY models are higher-level models and consequently simulate faster than the low-level third-party models.

The fast setup and operation of the PCI Express Verification Suite makes it easy for users to quickly and comprehensively perform end-to-end simulations of their PCI Express design.

The Verification Suite is fully compliant with PCI Express Base Specification Revision 1.1

Verification Suite Deliverables:

- Verification Suite (Source Code) *
- Documentation
- Expert Technical Support & Maintenance Updates

* Except for Root Complex BFM and PHY Model