

AMBA AXI4 Verification IP provides an effective & efficient way to verify the components interfacing with AMBA® AXI4 bus of an IP or SoC.

This AMBA AXI4 VIP is fully compliant with standard AMBA® AXI4 specification from ARM. This VIP is a light weight VIP with easy plug-and-play interface so that there is no hit on the design time and the simulation time.

This VIP is compatible with Mentor Questa, Cadence NC and Synopsys VCS , and can be used for verification in standalone or in SoC environment.

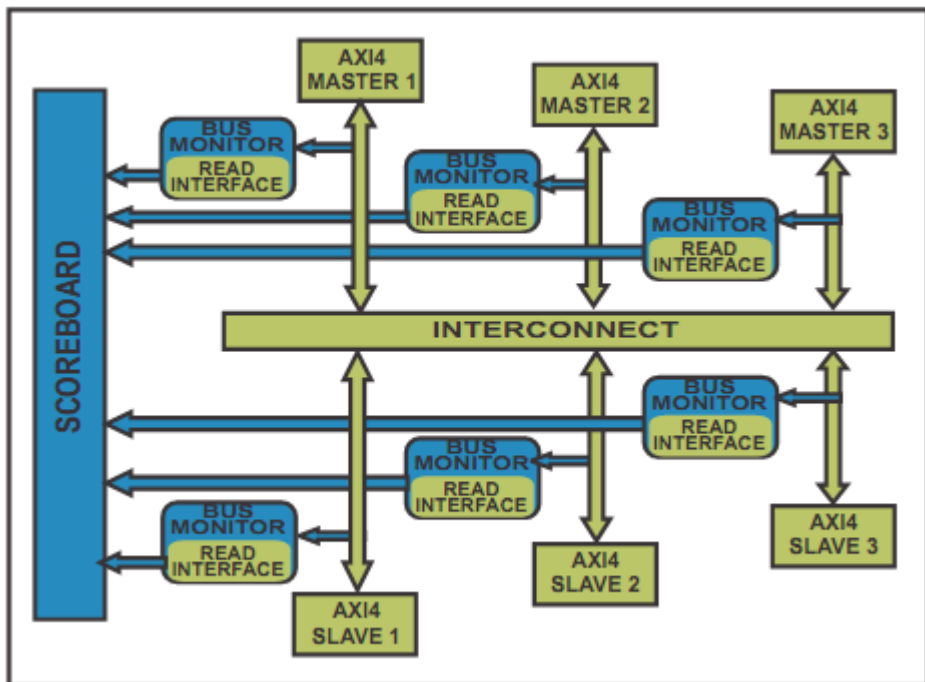
Key Benefits

- Available in native System Verilog (UVM/OVM/VMM) and Verilog
- Unique development methodology to ensure highest levels of quality
- Availability of Compliance & Regression Test Suites
- 24X5 customer support
- Unique and customizable licensing models
- Exhaustive set of assertions and coverage points with connectivity example for all the components
- Consistency of interface, installation, operation and documentation across all our VIPs.

Features

- Compliant to AMBA® AXI4 specifications from ARM
- Support for all variants of AXI4, AXI4-Lite and AXI4 Stream
- Support for all type of AMBA AXI4 devices:
 - Master Agent
 - Slave Agent
- Strong protocol checking Bus Monitor which also provides statistics of the transactions
- Parameterized data and address bus
- Support for all protocol Burst Types, Burst Lengths and Response Types
- Configurable wait states on different channels
- Internal Architecture Based on TLM 2.0
- Rich set of configuration parameters to control AXI4 functionality
- AXI4 Verification IP comes with Extensive Coverage Across the Channels
- Supports FIFO , memory and Cache Model integrated
- VIP supports protected accesses
- Supports out of order transaction with Parameterized out of order width
- Supports data interleaving on read data channel
- Supports Endianness check and conversion
- Rich set of error injections
- Supports exclusive transfers

Block Diagram



Deliverables

- AMBA AXI4 Master/Slave Agent
- AMBA AXI4 Bus Monitor and Scoreboard
- AMBA AXI4 Interconnect Model (Optional)
- Test-Bench Configurations
- Test Suite (Available in Source code) :
 - Basic and Directed Protocol Tests
 - Random Tests
 - Error Scenario Tests
 - Assertions & Coverage Tests
 - Compliance Tests
 - User Tests
- User Guide and Release Notes

Related products

We can offer different Verification IP solution for your selection.

- MIPI M-PHY Verification IP
- MIPI CSI-2 Verification IP
- MIPI UniPro Verification IP
- AMBA 3 AHB-lite Verification IP
- AMBA 2.0 AHB Verification IP
- AMBA APB Verification IP
- AMBA ATB Verification IP
- AMBA AXI3 Verification IP
- I2C Verification IP
- USB3.0 Verification IP
- USB3.1 Verification IP
- USB2.0 xHCI Verification IP
- SSIC Verification IP

For more information about the above VIP documents can be gotten from WWAGO sales contacts.

WWAGO

WWAGO Contact method:

Tel:+86 10-5979 9275 Fax:+86 10-82359871
sales@wwago-inc.com more info: www.wwago-inc.com
Copyright © WWAGO, all rights reserved
Contents subject to change without notice

This IP source from our Verification IP technology partner Team
trademarks are the property of their respective owners