WWAGO

AMBA 2.0 AHB Verification IP

Features

- Compliant to AMBA® 2.0 AHB specifications from ARM
- Support for all type of AMBA AHB devices:
    - Master Agent
    - Slave Agent
- Parameterized data and address widths
- Support for all protocol Transfer Types, Burst Transfers
- Support all the Transfer sizes
- Supports split and retry transfers
- Controllable busy and wait states insertions
- Supports constrained randomization of protocol attributes
- Control of response per address or per transaction
- On-the-fly protocol checking using protocol check functions
- Supports Early burst termination and locked transfers
- Supports Callback in Master and Slave
- Complete static and dynamic assertion protocol checks
- Supports wide variety of error injection scenarios
- Complete Test Suites to test every feature of AHB specification
- VIP supports protected accesses

AMBA 2.0 AHB Verification IP provides an effective & efficient way to verify the components interfacing with AMBA® 2.0 AHB bus of an IP or SoC.

This AMBA 2.0 AHB VIP is fully compliant with standard AMBA® 2.0 AHB 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.

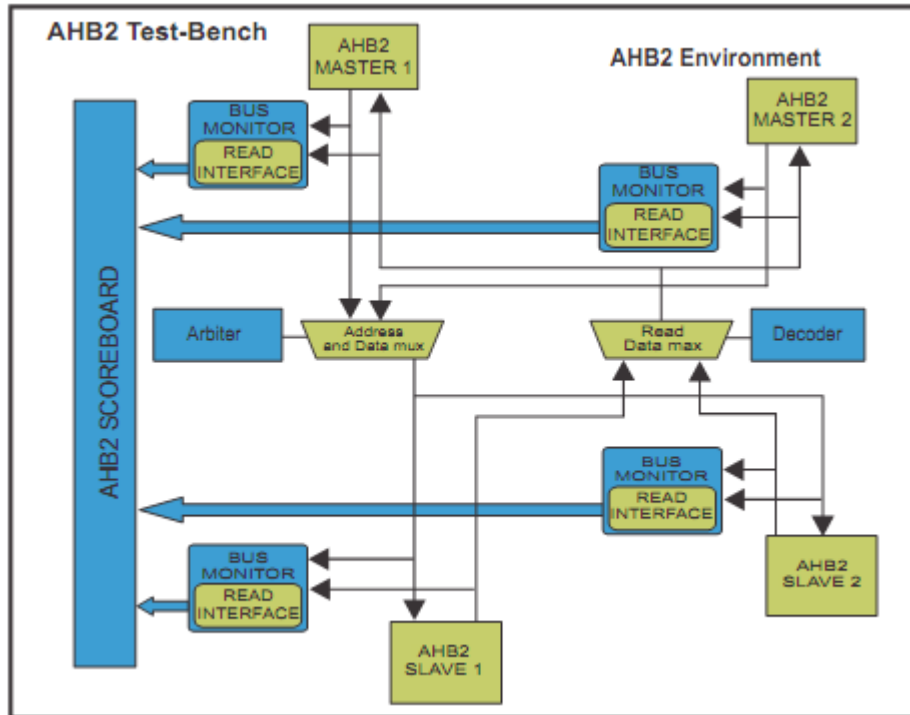This VIP is compatible with Mentor Questa, Cadence NC and Synopsys VCS.

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.

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Block Diagram

Deliverables

- AMBA 2.0 AHB Master/Slave Agent
- AMBA 2.0 AHB Bus Monitor and Score boarding
- AMBA 2.0 AHB Arbiter for multiple masters/slaves (Optional)
- Test-Bench Configurations
- Test Suite   (Available in Source code) :
    - Basic and Directed Protocol Tests
    - Random Tests
    - Error Scenario Tests
    - Assertions & Coverage 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 CSI-3 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
- AMBA AXI4 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.

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