WWAGO

AMBA 3 AHB-Lite Verification IP

Features

AMBA 3 AHB-Lite Verification IP provides an effective & efficient way to verify the components interfacing with AMBA®3 AHB-Lite bus of an IP or SoC.

This AMBA 3 AHB-Lite VIP is fully compliant with standard AMBA 3 AHB-Lite 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.

- Compliant to AMBA®3 AHB-Lite specifications from ARM

- Support for all type of AMBA AHB devices:
    - Master Agent
    - Slave Agent

- Controllable busy and wait state insertion.

- Fully compliant to inter connect matrix

- Support bus endianess conversion

- VIP Supports protected accesses

- Enable to use standard AHB Master and Slave components without requiring modifications

- Support AHB-Lite protocol

- Effective point to point arbitration at each peripheral

- Supports Callback in Master and Slave

- Complete static and dynamic assertion protocol checks

- Supports wide variety of error injection scenarios

- Parameterized data and address widths

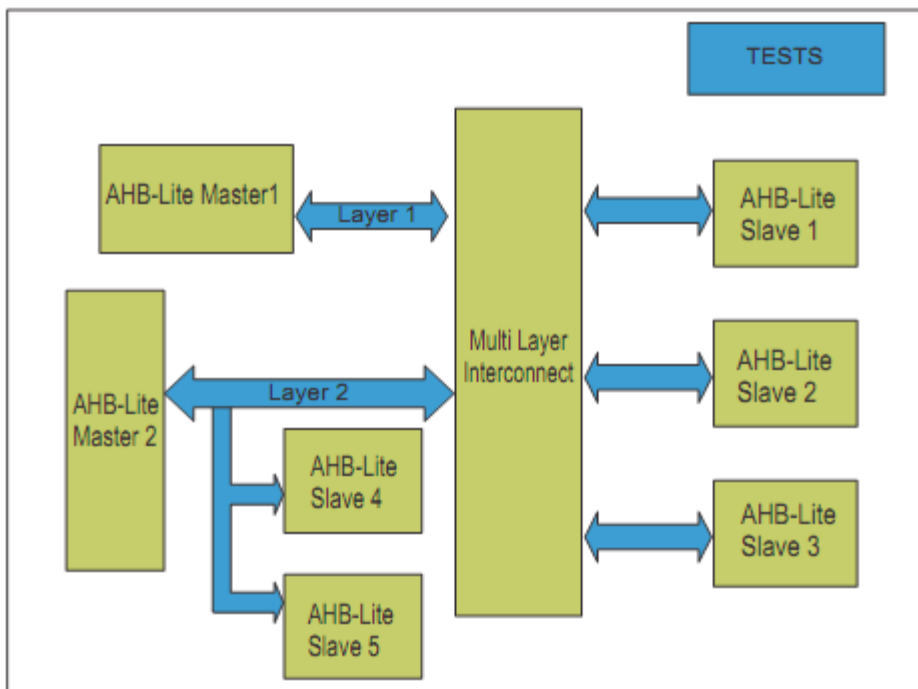- Support for all protocol transfer types, burst transfers and transfer sizes

Block Diagram

Deliverables

- AMBA 3 AHB-Lite Master/Slave Agent
- AMBA 3 AHB-Lite Bus Monitor and Score boarding
- 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 UniPro 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.