WWAGO

AMBA ATB Verification IP

Features

- Compliant to AMBA 3 ATB (aka ATB v1.0) and AMBA 4 ATB (aka ATB v1.1) Protocol.
- Parameterized address and data width and hence capable of configuring all possible ATB and TPIU bus widths.
- Bus Monitor is easy to Plug-in and is complaint to standard specification.
- Supports static and dynamic protocol checks
- Capable of performing register value checks for register bank modified by APB interface.
- Supports Masking of any specific error .
- Provides a full bus coverage analysis.
- Supports multi-master mode
- Supports valid data capture functionality
- Supports variety of error injection mode
- TPIU slave supports all Flushing modes: Manual Flush, Flushin , Trigin
- TPIU slave supports all three modes : Normal, Continuous (Formatter supported) and Bypass
- Supports all patterns and modes of Pattern Generator
- Support for TPIU Lite is also available.

AMBA ATB Verification IP provides an effective & efficient way to verify the components interfacing with AMBA ATB interface of an IP or SoC.

This AMBA ATB VIP is fully compliant with standard AMBA 3 ATB (aka ATB v1.0) and AMBA 4 ATB (aka ATB v1.1) protocol.   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.

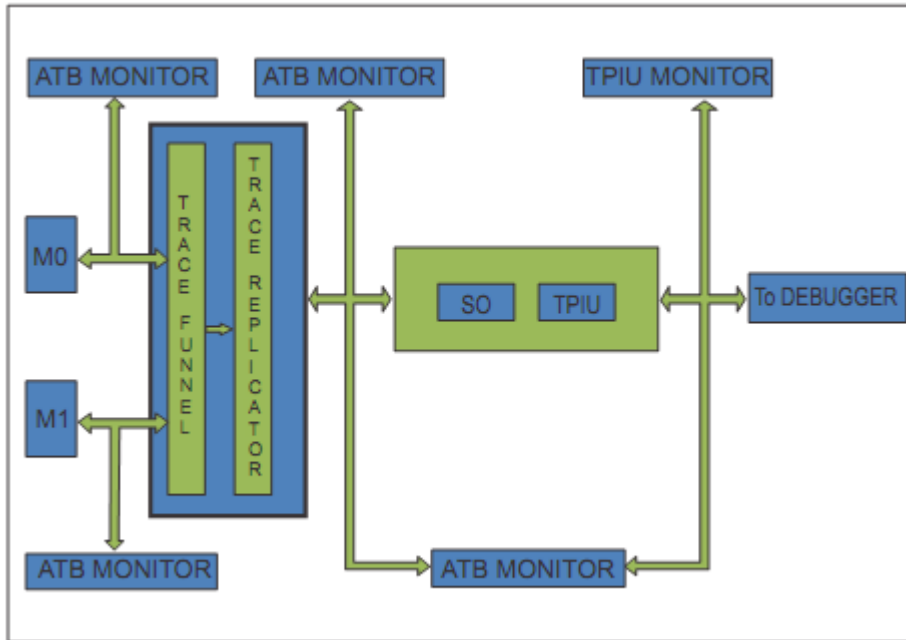This VIP is compatible with Mentor Questa, Cadence NC and Synopsys VCS.

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.

Block Diagram

Deliverables

- AMBA ATB Master BFM/Agent
- AMBA TPIU_SLAVE BFM/Agent
- AMBA ATB Monitor and Scoreboard
- TPIU Monitor and Scoreboard
- 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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