



# asureVIP

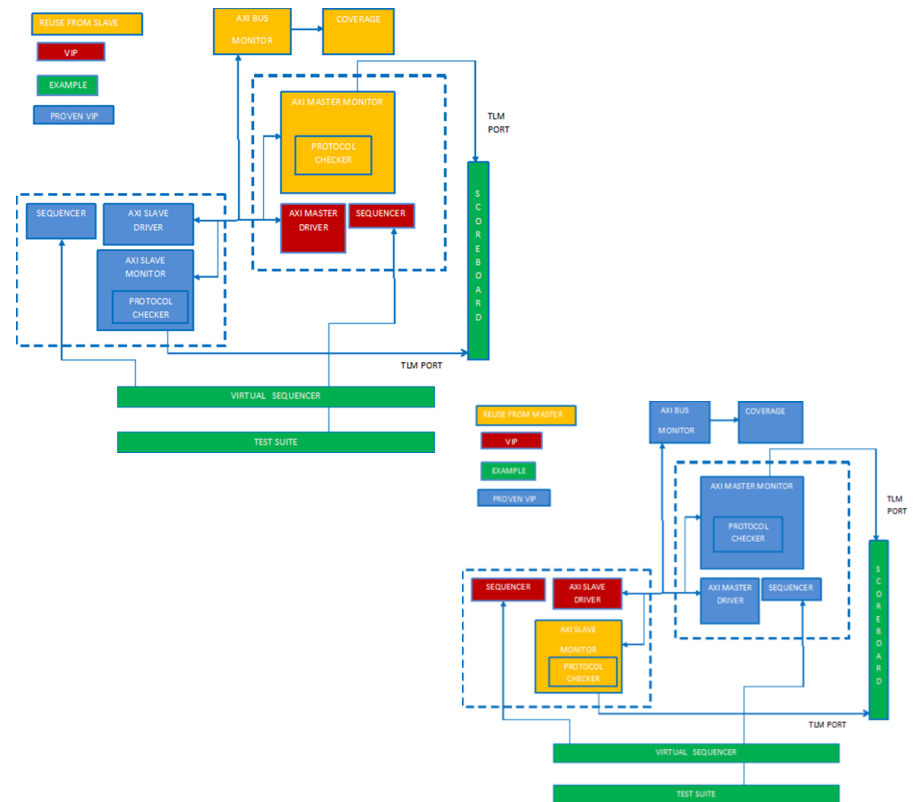
## AXI4-Lite Master & Slave UVM/OVM VIP

Tessolve offers the AMBA® Advanced eXtensible Interface (AXI) 4.0/3.0 Master and Slave UVM/OVM VIP as part of its asureVIP series of offerings. This is a highly flexible and configurable verification IP, which can be easily integrated into any SOC verification environment. The Master and Slave VIPs have been interoperability tested.

The VIP comes with a Bus Monitor for performing all protocol checks. The monitor also performs key protocol checks and reports errors for non-compliance with ARM AMBA4 AXI4-Stream Protocol version 1.0.

The VIP has been verified for protocol compliance with asureSIGN, Tessolve’s in-house Requirements Tracking tool.

### Block Diagram



## Overview

VIP: AMBA AXI Master or Slave

Compliance: AMBA AXI version 4.0,  
3.0 Language: System Verilog

Methodology: OVM 2.1.1 / UVM 1.1

Simulators: Cadence Incisive, Mentor  
Questa, Aldec Riviera-PRO

## Deliverables

- AXI4-LITE Master or Slave VIP
- Sample Virtual Sequencer
- Sample Scoreboard
- VIP User Guide

## Key Benefits

- Highly Flexible, Independent and Configurable VIP
- Proven against Silicon Proven VIP
- Less TAT in integrating into SOC Verification environments

## Technical Specifications

- Supports all transaction burst length 1
- Supports Data bus width 32/64-bit
- Supports write Strobes
- Supports multiple outstanding transactions

## Independent Verification Service

Tessolve can deliver an independent verification service that not only reduces development costs and time-to-market, but also improves product quality.

## Proven Implementations

Use asureVIP with the confidence of knowing that they have been successfully deployed by leading SoC companies around the world.

## About Tessolve

Tessolve Semiconductors Private Limited provides services and products to organizations developing complex products in the microelectronics and embedded software and systems industries.

Tessolve operates globally with offices in the UK, France, Germany, India, Singapore the USA plus a network of international partners.

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