

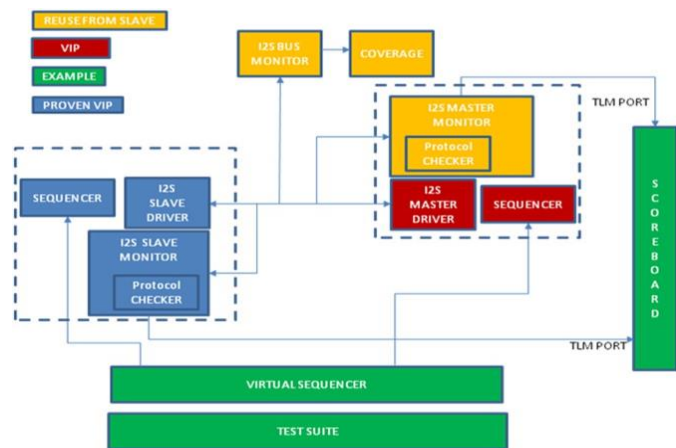
asureVIP

I2S Master and Slave OVM/UVM VIP

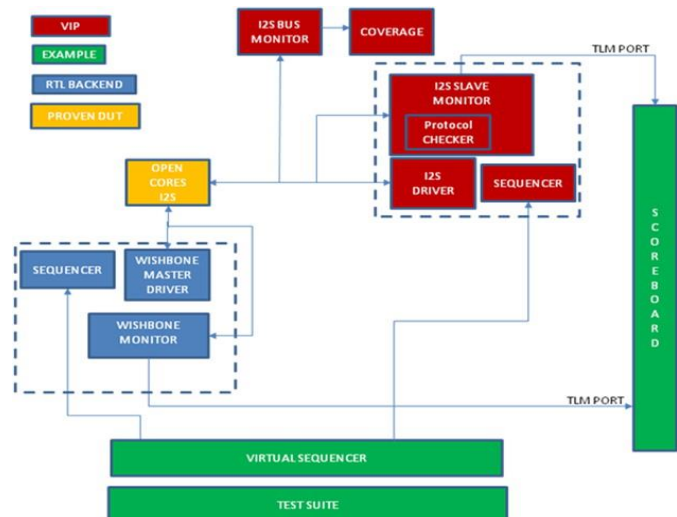
Tessolve offers I2S OVM/UVM Master and SLAVE VIP as part of its asureVIP™ series of offerings. This is a highly flexible and configurable verification IP can be easily integrated into any SOC verification environment. The VIP has been interoperability tested with Master and Slave VIP configurations and is silicon proven.

The VIP comes with a Bus Monitor for performing all protocol checks. The monitor also performs key protocol checks and reports errors for noncompliance with Philips I2S Specification.

Master
Block Diagram



Slave
Block Diagram



Overview

VIP:	I2S Master or Slave
Compliance:	I2S PHILIPS Specification 1996 Cirrus Logic AN282 Wolfson WM8991
Language:	System Verilog
Methodology:	OVM 2.1.1 / UVM 1.1
Simulators:	Cadence Incisive, Mentor Questa and Aldec Riviera PRO

Deliverables

- ✓ I2S Master or Slave OVM/UVM VIP
- ✓ Sample Testbench (Integrated with proven I2S Master and Slave VIP)
- ✓ Sample Virtual Sequencer
- ✓ VIP user guide

Key Benefits

- ✓ Highly flexible, independent and configurable VIP
- ✓ Less TAT in integrating into SOC verification environments

Technical Specifications

- ✓ Transmitter supports 3 pin configuration
- ✓ Supports System Clock and Internal clock
- ✓ Right and Left Channel Support
- ✓ Supports Transmitter and Receiver

Other VIPs Available

- ✓ ARM: AXI, APB, AMBA ACE and CHI
- ✓ Hi-Speed Interface: Ethernet (10/100/1000MB & 10GB), PCIe RC and EP, USB 3.0 Host and Device, CSIX and SPI
- ✓ Memory and Storage: SDCARD 4.0, DDR 4/3, LPDDR 4/3 and ONFI
- ✓ MIPI: DPHY, DSI, LPDDR, MPHY, SMBUS, RFFE and Unipro
- ✓ Universal Serial I/O: CAN, GPIO, I2C, UART, SPDIF, I2S, SMBUS, SPI and TDM

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 TVS

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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