

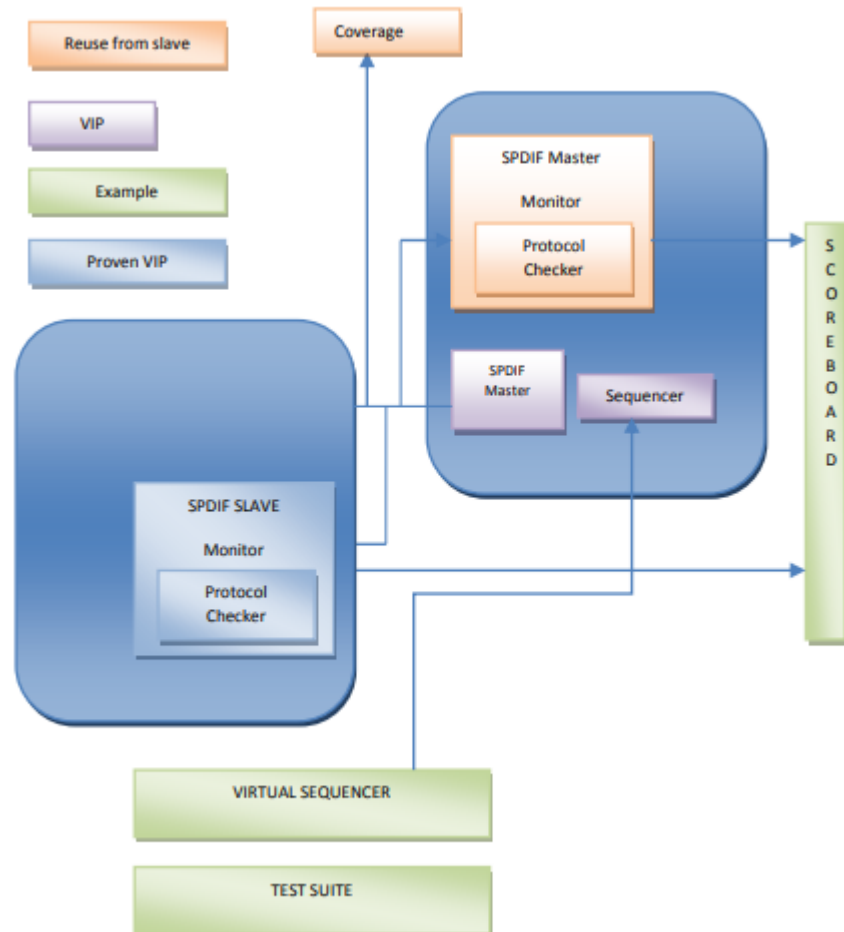
SPDIF

asureVIP

SPDIF UVM VIP

Test and Verification Solutions offers an SPDIF UVM 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 VIP has been interoperability tested with a Slave VIP configuration. This slave VIP was used in successfully verifying a DUT, later silicon proven.

The VIP comes with a Monitor for performing all protocol checks. The monitor also performs key protocol checks and reports errors for non-compliance with IEC Specification.



Overview

VIP:	SPDIF
Compliance:	IEC Specification
Language:	System Verilog
Methodology:	UVM 1.1b
Simulators:	Cadence Incisive, Mentor Questa and Aldec Riviera PRO

Deliverables

- ✓ SPDIF VIP
- ✓ Sample Testbench (Integrated with proven SPDIF Slave VIP)
- ✓ Sample Virtual Sequencer
- ✓ Sample Scoreboard
- ✓ VIP user guide

Key Benefits

- ✓ Highly Flexible, Independent and Configurable SPI Slave VIP
- ✓ Proven against DUT Proven VIP
- ✓ Less TAT in integrating into SOC Verification environments

Technical Specifications

- ✓ Supports 2 pin configuration
- ✓ Supports Two Modes: System Clock and Internal clock.
- ✓ Supports both Transmitter and Receiver
- ✓ Linear PCM Encoded Audio Bit stream.
- ✓ Non-Linear PCM Encoded Data burst with AC-3, Enhanced AC-3,DTS-I,DTS-II,DTS-III,DTS-IV.
- ✓ Channel Coding Technique– BMC
- ✓ BMC- Bi-Phase Mark Coding

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

About Tessolve

Tessolve Semiconductor 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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