

SmartDV™

Proven and Trusted Smart Design and Verification Solutions™

VERIFICATION

Industry's Most
Comprehensive Portfolio

Full Design Cycle Support:
Verification IP, Formal,
Emulation, Post-Silicon

New! RISC-V CPU Verification
Platform

SUPPORT

Rapid, On-Demand Creation
and Customization of
Design IP and Verification IP

Verification and Design
Services

DESIGN

All Protocols Supported

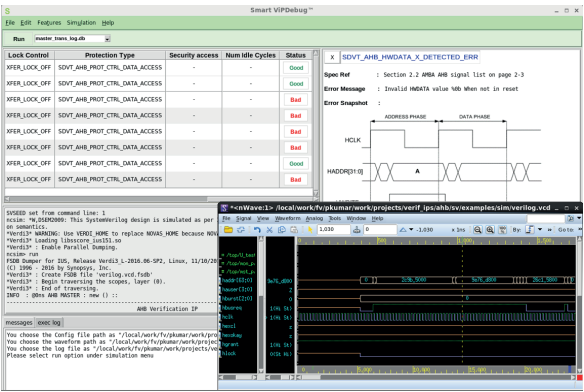
Rapid, On-Demand
Customization

Product Brochure

SmartDV... the Smart Choice for Design and Verification IP Solutions

Comprehensive Verification and Design IP Solutions

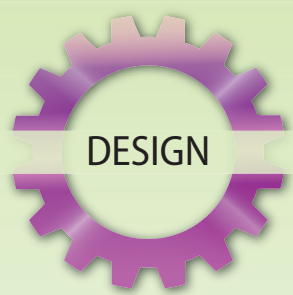
- **New from SmartDV – RISC-V CPU Verification Platform** provides a push-button approach to CPU verification and supports all RISC-V ISAs.
- **Verification IP** for mobile, networking, SoC, automotive, serial bus, storage, video, memory, mil-aero and other protocols.
- **Accelerators for Emulation and FPGA** via SimXL™ Synthesizable Transactors accelerate emulation and FPGA prototyping and offer a seamless transition from simulation.
- **Formal IP** for assertion-based formal verification compatible with all popular formal verification and simulation environments.
- **Design IP** supports all industry standard protocols and interfaces and can be rapidly customized on-demand.
- **Post-Silicon ViP** supports verification of new silicon via FPGA platform and Linux Perl driver.
- **SmartVIPDebug™** provides rapid analysis and debug via advanced waveform and tabulated transaction views.
- **Support and Services** for rapid customization/creation of ViP and Design IP and design and verification project services.



SmartViPDebug™
Speeds and
Simplifies
Debugging

- Visual debug and tabulated transaction views provide rapid pinpointing of issues
- In-sync debug between waveform and tabulated views
- All protocols supported – in-depth knowledge of the detailed protocol specification not required
- Compatible with all SmartDV ViPs

SmartDV Solutions Span the Design Cycle



- Support for All Industry Protocols
- Rapid Customization of Design IP to Meet Specific Customer Requirements
- Design IP Developed by Experienced ASIC Engineering Team



- Support for All Industry Protocols
- Compatible With All Verification Languages, Platforms and Methodologies
- Seamless Verification Across The Entire Design Cycle
 - Verification IP for Simulation
 - Synthesizable Transactors – SimXL for Accelerating Emulation and FPGA Prototyping*
- Formal IP to Assertion-Based Formal Verification
- Post-Silicon IP

* Support for Palladium®, sēmu™, Veloce®, and ZeBu® Emulation Platforms and HAPS®, and HyperSilicon FPGA Prototyping Platforms



- Fast Turnaround, On-Demand Customization or Creation of Verification and Design IP
- Unmatched Technical Support Team with Years of Experience in ASIC Design and Verification
- On-Demand Services for Verification and Design Projects

The World's Leading
Design and Verification
Teams Rely on SmartDV's
Proven and Trusted
Design and Verification
IP Solutions

- Most comprehensive and up-to-date portfolio of proven Verification IP and Design IP
- RISC-V CPU verification platform delivers push-button support for CPU verification and supports all RISC-V ISAs
- SmartDV verification products cover the design cycle from simulation, formal verification, emulation and FPGA prototyping and post-silicon verification
- Proprietary SmartCompiler™ delivers rapid creation and customization of Verification and Design IP

The World's Largest Portfolio of Verification and Design IP

A Sampling of SmartDV's Extensive VIP and Design IP

Verification IP Protocol	Verification IP	SimXL *	Assertion IP	Post-Silicon VIP	Design IP Protocol
Advanced VCI	✓				10/100/1000M MAC Controller
AMBA ACE	✓		✓		10G MAC Controller
AMBA ACE5	✓		✓		1G TSN MAC Controller
AMBA ACE5-Lite	✓		✓		AC97 Controller
AMBA ACE-Lite	✓		✓		AVSBUS Master
AMBA AHB	✓	✓	✓		AVSBUS Slave
AMBA AHB5	✓	✓	✓		CAN Controller
AMBA AHB5 Bus	✓	✓	✓		eMMC Device Controller
AMBA AHB Bus	✓	✓	✓		eMMC Host Controller
AMBA AHB-Lite	✓	✓	✓		GPIO
AMBA AHB-Lite Bus	✓	✓	✓		I2C Slave
AMBA APB3	✓	✓	✓		I2C Slave To AHB Bridge
AMBA APB4	✓	✓	✓		

- RISC-V solutions (TileLink + RISC-V CPU verification platform)
- Rapid turnaround on both creation and customization of Design and Verification IP to meet specific customer requirements

Visit smartdv.com to view the full portfolio of IP solutions

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