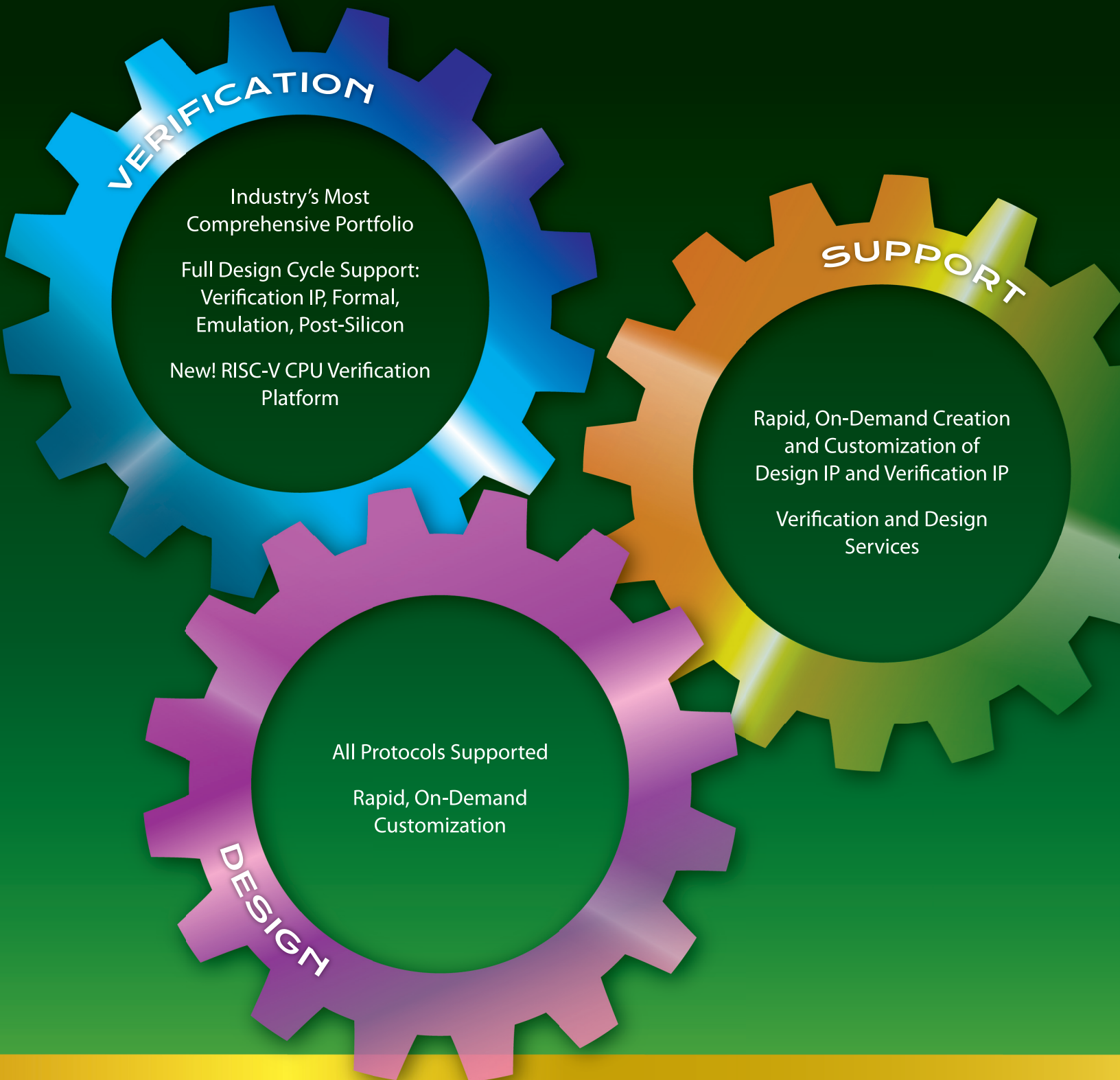


SmartDV™

Proven and Trusted Smart Design and Verification Solutions™



Product Directory

The World's Largest Portfolio ...

Verification IP

Protocol	Verification IP	SimXL *	Assertion IP	Post-Silicon VIP	Protocol	Verification IP	SimXL *	Assertion IP	Post-Silicon VIP	Protocol	Verification IP	SimXL *	Assertion IP	Post-Silicon VIP	Protocol	Verification IP	SimXL *	Assertion IP	Post-Silicon VIP
AMBA 3 AHB	✓	✓	✓		Camera Parallel Interface (CPI)	✓	✓			Ethernet 100BASE-T1	✓	✓			External Memory Interface (EMIF)	✓			
AMBA 3 AHB Bus	✓	✓	✓		CAN	✓	✓			Ethernet 100GBase-KR10/CR10/SR10/LR4	✓	✓			FCoE	✓			
AMBA 3 AHB-Lite	✓	✓	✓		CCIX 1.0	✓				Ethernet 10G	✓	✓			FCRAM	✓	✓		
AMBA 3 AHB-Lite Bus	✓	✓	✓		CJTAG (IEEE 1149.7)	✓				Ethernet 10G 64b/66b WIS	✓	✓			Fibre Channel	✓	✓		
AMBA 3 APB	✓	✓	✓		CoaXPress (CXP)	✓				Ethernet 10G TBI (PCS)	✓	✓			FlexRay	✓	✓		
AMBA 4 APB	✓	✓	✓		Compact Flash	✓				Ethernet 10G XAU1/10GBase-KX4	✓	✓			FPMRAM	✓			
AMBA 5 AHB	✓	✓	✓		CPRI	✓	✓			Ethernet 10GBase-KR	✓	✓			FRAM	✓			
AMBA 5 AHB Bus	✓	✓	✓		CRAM	✓				Ethernet 1G	✓	✓			G.999.1	✓			
AMBA 5 CHI	✓	✓	✓		CXL	✓				Ethernet 2.5GBase-KX/5GBase-KR/2.5GBase-T/5GBase-T	✓	✓			GC1	✓	✓		
AMBA ACE4	✓	✓	✓		DALI	✓	✓			Ethernet 200G, 400G	✓	✓			GDDR2	✓	✓		
AMBA ACE4-Lite	✓	✓	✓		DDR	✓	✓	✓		Ethernet 200GBase-KR8/KR4/KR2	✓	✓			GDDR2 DFI	✓			
AMBA ACE5	✓	✓	✓		DDR DFI	✓	✓	✓		Ethernet 25G, 50G	✓	✓			GDDR3	✓	✓		
AMBA ACE5-Lite	✓	✓	✓		DDR2	✓	✓	✓		Ethernet 25GBase-R/KR	✓	✓			GDDR3 DFI	✓			
AMBA ATB	✓	✓	✓		DDR2 DFI	✓	✓	✓		Ethernet 400GBase-KR4/KR8/KR16	✓	✓			GDDR3L	✓	✓		
AMBA AXI3	✓	✓	✓		DDR2 Monitor	✓				Ethernet 40G, 100G	✓	✓			GDDR3L DFI	✓			
AMBA AXI3 Interconnect	✓	✓	✓		DDR3	✓	✓	✓		Ethernet 40GBase-KR4/CR4/SR4/LR4/KR2	✓	✓			GDDR4	✓	✓		
AMBA AXI4	✓	✓	✓		DDR3 3DS	✓	✓			Ethernet 50GBase-KR/KR2	✓	✓			GDDR4 DFI	✓			
AMBA AXI4 Interconnect	✓	✓	✓		DDR3 DFI	✓	✓	✓		Ethernet 800G	✓	✓			GDDR5	✓	✓	✓	
AMBA AXI4-Lite	✓	✓	✓		DDR3 DIMM	✓				Ethernet AVB	✓	✓			GDDR5 DFI	✓			
AMBA AXI4-Lite Interconnect	✓	✓	✓		DDR3 Monitor	✓				Ethernet CGMII 100G	✓	✓			GDDR5X	✓	✓	✓	
AMBA AXI4-Stream	✓	✓	✓		DDR3L	✓	✓			Ethernet GMII TBI (8b/10b)	✓	✓			GDDR5X DFI	✓			
AMBA AXI4-Stream Interconnect	✓	✓	✓		DDR4	✓	✓	✓		Ethernet MII/SMII/RMII/GMII/RGMII	✓	✓			GDDR6	✓	✓	✓	
AMBA AXI5	✓	✓	✓		DDR4 3DS	✓	✓	✓		Ethernet 1000Base-KX	✓	✓			GDDR6 DFI	✓	✓	✓	
AMBA AXI5 Interconnect	✓	✓	✓		DDR4 3DS DIMM	✓				Ethernet TSN	✓	✓			GDDR7	✓			
AMBA AXI5-Lite	✓	✓	✓		DDR4 DB	✓				Ethernet XGMII	✓	✓			GDDR7 DFI	✓			
AMBA AXI5-Lite Interconnect	✓	✓	✓		DDR4 DFI	✓	✓	✓		Ethernet XLGMII 40G	✓	✓			GENZ	✓			
AMBA CXS	✓	✓	✓		DDR4 DIMM	✓				eUSB	✓				GHBM	✓	✓		
AMBA LPI	✓	✓	✓		DDR4 RCD	✓				Excelon FRAM	✓				HBM	✓	✓	✓	
ARINC 419	✓	✓			DDR5	✓	✓	✓							HBM DFI	✓	✓	✓	
ARINC 429	✓	✓			DDR5 DFI	✓	✓	✓							HBM2E	✓	✓	✓	
ARINC 818	✓	✓			DDR5 DIMM	✓									HBM2E DFI	✓	✓	✓	
ARINC 825	✓	✓	✓		DDR5 NVRAM	✓									HBM3	✓	✓	✓	
Avalon	✓				Display Port	✓	✓								HDMI 1.4/2.0/2.1	✓	✓		
AVCI (Advanced VCI)	✓				Display Port 2.0	✓	✓								HMC	✓	✓		
AVSBus	✓	✓			DMX	✓	✓								HyperBus	✓	✓		
BISS	✓				eCPRI	✓	✓								HyperFlash	✓			
BVCI (Basic VCI)	✓				EDORAM	✓									HyperRAM	✓			
Camera Link HS	✓				Embedded Display Port (eDP)	✓									I2C	✓	✓	✓	
					eMMC	✓	✓								I2S	✓	✓		
					eSPI (Enhanced Serial Peripheral Interface)	✓	✓	✓							IEC61162	✓			
					EtherCAT	✓	✓								Interlaken	✓	✓		
					Ethernet - up to 800G	✓	✓								IPMB	✓			
															JESD204	✓	✓		
															JESD207	✓	✓		

* SimXL (Synthesizable Transactors)

Design IP

AC97 Controller	Ethernet 10G MAC	I2S Controller	MIPI STP Master
AFDX 1G MAC	Ethernet 10G TSN MAC	IEC7816 Slave	MIPI UniPro
AHB Arbiter	Ethernet 10G XAUI PCS	IEEE 1149.7 Compact TAP	OCTAL SPI Master
AHB Decoder	Ethernet 1G MAC	IEEE 1149.7 DTS Adapter	PCI Master Slave
AHB Multilayer Interconnect	Ethernet 1G PCS	IEEE 1588	PCIE Controller
AHB To APB Bridge	Ethernet 1G TSN MAC	INTC	PMBUS Master
AVB MAC	Ethernet 200/400G TSN MAC	Interlaken	PMBUS Slave
AVSBUS Master	Ethernet 200G MAC	JESD204B Receiver	QUAD SPI Master
AVSBUS Slave	Ethernet 25G MAC	JESD204B Transmitter	RapidIO EndPoint Controller
CAN Controller	Ethernet 25G PCS	JESD204C Receiver	RTC
CPRI Controller	Ethernet 25G TSN MAC	JESD204C Transmitter	SAE J1850
CXL Controller	Ethernet 40/100G TSN MAC	JESD207 BBIC	SAE J2716 Device
CXP Device	Ethernet 40G MAC	JESD207 RFIC	SAE J2716 Sensor
CXP Host	Ethernet 50G MAC	LIN Controller	SDIO Device Controller
DDR Controller	Ethernet 800G MAC	LPC Device	SDIO Host Controller
DDR2 Controller	Ethernet Switch	LPC Host	Serial Flash Controller
DDR3 Controller	FlexRay Controller	LPDDR Controller	SLVS-EC Receiver
DDR3L Controller	GDDR2 Controller	LPDDR2 Controller	SLVS-EC Transmitter
DDR4 Controller	GDDR3 Controller	LPDDR3 Controller	SMBUS Master
DDR5 Controller	GDDR3L Controller	LPDDR4 Controller	SMBUS Slave
DFI LPDDR5 PHY	GDDR4 Controller	LPDDR5 Controller	SMPTE SDI Receiver
Display Port Receiver	GDDR5 Controller	LPDDR5X Controller	SMPTE SDI Transmitter
Display Port Transmitter	GDDR5X Controller	MIL STD 1553 Controller	SPI Slave
DMA Controller with AHB	GDDR6 Controller	MIPI ASPMI Slave	SPI Slave To AHB Bridge
DMA Controller with AXI	GPIIO Controller	MIPI BIF Master	SPI Slave To AXI Bridge
DMA Controller with OCP	HBM2 Controller	MIPI BIF Slave	Tilelink To AHB Bridge
DMA Controller with TileLink	HBM2E Controller	MIPI CSI-2 Receiver	Tilelink To APB Bridge
eCPRI Controller	HBM3 Controller	MIPI CSI-2 Transmitter	Timer
eDP Receiver	HDCP 2.x Receiver	MIPI DSI-2 Receiver	TSS Master
eDP Transmitter	HDCP 2.x Transmitter	MIPI DSI-2 Transmitter	TSS Slave
eMMC Device Controller	HDMI CEC	MIPI I3C Master	UART Controller
eMMC Host Controller	HDMI eARC Receiver	MIPI I3C Slave	V-By-One Receiver
eSPI Controller	HDMI eARC Transmitter	MIPI I3C Slave To AHB Bridge	V-By-One Transmitter
eSPI LPC Bridge	HDMI Sink	MIPI I3C Slave To AXI Bridge	VDC-M Decoder
eSPI Master	HDMI Source	MIPI RFFE Master	VDC-M Encoder
eSPI Slave	I2C Master	MIPI RFFE Slave	VESA DSC Decoder
eSPI Slave SOC	I2C Slave	MIPI RFFE SPI I2C Slave	VESA DSC Encoder
EtherCAT 10G	I2C Slave To AHB Bridge	MIPI RFFE SPI Slave	Virtual GPIO
EtherCAT 1G	I2C Slave To AXI Bridge	MIPI SPMI Master	Watchdog Timer
Ethernet 100G MAC		MIPI SPMI Slave	XSPI Controller
Ethernet 10G KR PCS			

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