

Supported Processors

Siemens enables you to develop market-leading designs on heterogeneous and homogeneous multicore processors. Siemen provides a full range of solutions including board support packages (BSPs) for Linux and the Nucleus real-time operating system, middleware, protocol stacks, and toolchain.

ARCHITECTURE	PROCESSOR VENDOR	PROCESSOR FAMILY / PROCESSOR	TRADE BOARD NAME	NUCLEUS	EMBEDDED LINUX	HYPERVERSOR	MULTICORE FRAMEWORK
Arm	Arm	Cortex-A9/CoreTile Express A9x4	Versatile Express	◆			
Arm	Arm	QEMU/i.MX 6	QEMU Arm (32 bit/ i.MX6 Sabrelite)	◆			
Arm	Arm	QEMU/Realview_EB_CT926EJS (QEMU)		◆			
Arm	Arm	Versatile Express/Versatile Express for Cortex R7	Arm FVP	◆			
Arm	Intel	Cyclone V/Cyclone V		◆	◆		◆
Arm	Intel	Intel SoC FPGAs/Arria 10 SoC	DK-SOC-10AS066S-A	◆			
Arm	Microchip Technology	SAM 4S MCUs/ATSAM4SD32C	ATSAM4S-EK2	◆			
Arm	Microchip Technology	SAM9/AT91SAM9260	AT91SAM9260-EK	◆			
Arm	Microchip Technology	SAM9/AT91SAM9261	AT91SAM9261-EK	◆			
Arm	Microchip Technology	SAM9/AT91SAM9263	AT91SAM9263-EK	◆			
Arm	Microchip Technology	SAM9/AT91SAM9G10	AT91SAM9G10-EK	◆			
Arm	Microchip Technology	SAM9/AT91SAM9M10	AT91SAM9M10-EK	◆			
Arm	Microchip Technology	SAMA5D2 Series/SAMA5D2	SAMA5D27-SOM1-EK1		◆		
Arm	Microchip Technology	SAMA5D3 Series/ATSAMA5D36	SAMA5D3x Evaluation Kit	◆			
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6	Starterkit armStone A9r2		◆		
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6 Sabrelite	SABRE Lite (BD-SL-i.MX6)	◆	◆	◆	◆
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Quad	VAR-STK-MX6_V2	◆			
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Quad	MF0200	◆	◆		◆
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6SoloX	Nitrogen6 Lite Rev-2 i.MX 6SoloX	◆	◆		◆
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Dual	IMX6d Sabre AI (DualLite)		◆		
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Quad	IMX6q Sabre AI (Quad)		◆		

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Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Quad	Nitrogen6x		◆		
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Quad	IMX6q Sabre SD	◆			
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6Solo	Nitrogen6x_Lite	◆			
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6ULL	MCIMX6ULL-EVK		◆		
Arm	NXP	i.MX 6 Series Application Processors/i.MX 6UltraLite	MCIMX6UL- EVK	◆	◆		
Arm	NXP	i.MX 7 Series Application Processors/i.MX 7Dual	SABRE-SDB	◆			
Arm	NXP	i.MX 7 Series Application Processors/i.MX 7Solo	SABRE-SDB	◆			◆
Arm	NXP	i.MX 7 Series Application Processors/i.MX 7D	MCIMX7D-SABRE		◆		
Arm	NXP	i.MX 7 Series Application Processors/i.MX 7Dual	RDIMX7DSABREBRD	◆			◆
Arm	NXP	i.MX 8 Series Application Processors/iMX 8MQ	MCIMX8M-EVK	◆	◆		
Arm	NXP	i.MX Mature Processors/i.MX257	i.MX25 PDK	◆			
Arm	NXP	i.MX Mature Processors/i.MX515	i.MX51 EVK	◆			
Arm	NXP	i.MX Mature Processors/i.MX535	i.MX53 LOCO	◆			
Arm	NXP	i.MX Mature Processors/i.MX535	i.MX53 QSB	◆			
Arm	NXP	i.MX28 Processors/i.MX287	i.MX28 EVK	◆			
Arm	NXP	Kinetis K7x MCUs/TWR-K70F120M	TWR-K70F120M	◆			
Arm	NXP	LPC4350 Cortex-M4/M0/LPC4350	Hitex LPC4350EVAL	◆			
Arm	NXP	LPC540xx/ LPC54002	LPC5400 Xpresso v2	◆			
Arm	NXP	QorIQ Layerscape/LS1021x	QorIQ TWR-LS1021A	◆	◆		
Arm	NXP	QorIQ Layerscape/LS1046A	LS1046A-RDB	◆			
Arm	NXP	QorIQ Layerscape/LS2085A	LS2085ARDB -PA	◆			
Arm	NXP	VF6xx/PVF65GS10CMK40	TWR-VF65GS10 REV-F	◆			
Arm	Renesas	RZ/A1H/R7S72100	Genmai	◆			
Arm	Renesas	RZ/A1H/RZ/A1H	Renesas Starter Kit for RZ/A1	◆			

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Arm	STMicroelectronics	STM32F1 Series /STM32F103ZG	STM3210E-EVAL	◆			
Arm	STMicroelectronics	STM32F2 Series /STM32F207IG	STM3220G-EVAL	◆			
Arm	STMicroelectronics	STM32F4 Series /STM32F457IGH	STM3240G_EVAL	◆			
Arm	STMicroelectronics	STM32F4 Series/STM32F407IGH6U	STM32F407 Discovery Board	◆			
Arm	STMicroelectronics	STM32F4 Series/STM32F407VGT6	STM32F429I Discovery Board	◆			
Arm	STMicroelectronics	STM32F4 Series/STM32F429NIH6	stm324X9i -eval1 MB1045 Rev. B	◆			
Arm	STMicroelectronics	STM32F4 Series/STM32F469	32F469IDISCOVERY	◆			
Arm	STMicroelectronics	STM32F7 Series/STM32F767ZIT6U	NUCLEO-F767ZI	◆			
Arm	STMicroelectronics	STM32L4 Series/STM32L476	NUCLEO -L476RG	◆			
Arm	Texas Instruments	C6000 DSP + Arm Processors/OMAP-L138	Zoom OMAP-L138	◆			
Arm	Texas Instruments	Cortex-M4F based MCU/LM4F120XL	Stellaris LaunchPad LM4F120XLEK	◆			
Arm	Texas Instruments	Cortex-M4F based MCU/LM4F232	EKC-LM4F232	◆			
Arm	Texas Instruments	DRA Digital Cockpit SOCs/DRA74xx	Texas InstrumentsVayu EVM Jacinto 6	◆	◆	◆	◆
Arm	Texas Instruments	Hercules MCUs for functional safety/RM46L852	TMDXRM46HDK	◆			
Arm	Texas Instruments	OMAP5/OMAP5432	OMAP5432EVM	◆	◆	◆	
Arm	Texas Instruments	Sitara Processors/AM1808	Zoom AM1808 eXperimenter kit (rev.1)	◆			
Arm	Texas Instruments	Sitara Processors/AM3358	BeagleBone (rev A5)	◆			
Arm	Texas Instruments	Sitara Processors/AM335x	AM335x EVM	◆	◆		
Arm	Texas Instruments	Sitara Processors/AM335x	BeagleBone Black	◆			
Arm	Texas Instruments	Sitara Processors/AM3517	Zoom AM3517 EVM	◆			
Arm	Texas Instruments	Sitara Processors/AM437x	AM437XEVM	◆			
Arm	Texas Instruments	Sitara Processors/AM572x	AM572x EVM	◆			
Arm	Texas Instruments	Sitara Processors/Sitara AM/DM37x	AM/DM37x EVM	◆			
Arm	Texas Instruments	Sitara Processors/Sitara AM335x	BeagleBone	◆	◆		

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Arm	Texas Instruments	Stellaris Firestorm-class MCUs/LM3S9D96	Stellaris LM3S9D96-DK	◆	◆		
Arm	Texas Instruments	TI Audio & media processors/DM8148	Mistral DM814x EVM (Rev D)	◆	◆		
Arm	Texas Instruments	TI Digital Signals Processors/DM3730	AM/DM3730-EVM	◆			
Arm	Texas Instruments	TI Digital Signals Processors/DM3730	BeagleBoard-xM (DM3730)	◆	◆		
Arm	Texas Instruments	TI Digital Signals Processors/OMAP3530	BeagleBoard (OMAP3530)	◆	◆		
Arm	Texas Instruments	Tiva C Series/TM4C129X	Tiva DK-TM4C129X	◆			
Arm	Xilinx	Zynq All Programmable SoC/ZC702	ZC702 Evaluation Kit	◆	◆	◆	◆
Arm	Xilinx	Zynq All Programmable SoC/Zynq-7000	Zynq-7000 Zedboard	◆	◆		◆
Arm	Xilinx	Zynq UltraScale+ MPSoC/Zynq Ultrascale+ MPSoC	UltraZed-EG Starter Kit	◆	◆		◆
Arm	Xilinx	Zynq UltraScale+ MPSoC/Zynq Ultrascale+ MPSoC	Zynq Ultrascale+ MPSoC Evaluation Kit (ZCU102)	◆	◆		◆
Arm	Arm	QEMU/Zynq Ultrascale+ MPSoC	QEMU Arm (64 bit / MPSoC)	◆			
MIPS32	Imagination	MIPS32 /InterAptiv Virtex 6 XC6VLX760 FPGA	MIPS Malta-R with CoreFPGA-6A and CoreFPGA6B	◆			
MIPS32	Imagination	MIPS32/CoreFPGA 34K and CoreLV 4KEc	MIPS Malta	◆			
MIPS32	Imagination	MIPS32/M14K	SEAD 3 Rev 1.2	◆			
NIOS II	Intel	NIOS II/Cyclone V	Cyclone V	◆			◆
Power	NXP	MPC560xB/MPC5607B		◆			
Power	NXP	MPC57x/MPC5744P		◆			
Power	NXP	MPC8xx/MPC855-ADS		◆			
Power	NXP	PowerQUICC I/MPC885		◆			
Power	NXP	PowerQUICC II Pro/MPC8349E	MPC8349E MDS	◆			
Power	NXP	PowerQUICCII/MPC8260	EP8260	◆			
Power	NXP	QorIQ P Series/P1014	P1014RDB		◆		
Power	NXP	QorIQ P Series/P1020	P1020RDB	◆			
Power	NXP	QorIQ P Series/P2020	P2020DS	◆			

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Power	NXP	QorIQ P Series/P2041	P2041RDB-PB	◆			
Power	NXP	QorIQ P Series/QorIQ P2010 (single core)	P2020DS	◆			
Power	NXP	QorIQ T Series/T4240	T4240RDB		◆		
RISC-V	Microchip	PolarFire SoC FPGAs/MPFS250T-FCVG484EES	PolarFire SoC FPGA Icicle Kit	◆			
RISC-V	SiFive	Freedom U540/FU540-C000	HiFive Unleashed	◆			
SuperH	Renesas	SH7200 Series/SH-2A/ SH72643P144FPU	Renesas RSK2+SH7264	◆			
x64	AMD	G-Series/G-Series APU			◆		
x64	AMD	G-Series/G-Series SOC			◆		
x64	AMD	R-Series/R-Series APU	AMD DB-FP3 Development Board		◆		
x64	AMD	R-Series/R-Series APU	AMD DB-FP3/FT3b Development Board		◆		
x64	AMD	R-Series/R-Series SOC	R-Series SOC Betong Board		◆		
x64	Intel	Atom/E3825	MinnowMax		◆		
x64	Intel	Atom/E3845	UNO-2473G		◆		
x64	Intel	Atom/E3940	SIMATIC IPC127E (6AG4021-0AB11-1CA0)		◆		
x64	Intel	Atom/E3940	SIMATIC IPC127E (6AG4021-0AB12-1CA0)		◆		
x64	Intel	Celeron/N2930	SIMATIC IPC227E (6ES7647-8B)		◆		