

Процессоры и DSP

Описание

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Processors & DSP

Explore our portfolio of DSPs, mixed-signal control processors, embedded processors, and microcontrollers. This design center helps you reach your design goals quickly. Whether you are in the evaluation stage, the design stage, or prototyping stage, this page is your centralized information hub for processor and DSP design resources. Use the links on this page to compare products, to evaluate features, or to try out software. Frequently check for the latest design information, while you develop your product hardware and software.

Processors & DSP Resources

Use this linked list of processor and DSP design resources to explore the range of products and to visit the related EngineerZone support community.

Hardware

Use hardware development tools from Analog Devices for the best experience interacting with signal processing hardware in real-time.

Hardware

Development hardware tools support on-chip debugging, processor evaluation, and reliable development platforms for software and system development. These tools consist of emulators, EZ-Kit development kits, and EZ-Board demonstration systems.

Emulators

Rapid on-chip debugging allows developers to load code, set breakpoints, and observe variables, memory, registers, etc. There is a USB-based Emulator and the latest Blackfin 100B Emulator.

Evaluation Boards and Kits

Search or browse the library of available evaluation boards and kits to find the the information and documents needed to evaluate a specific ADI product.

Evaluation EZ-Extender Boards

Emulators

Emulators: Rapid on-chip debugging allows developers to load code, set breakpoints, and observe variables, memory, registers, etc. There is a USB-based Emulator and the latest Blackfin 100B Emulator.

Debug Agent Board: The Standalone Debug Agent is intended to provide a modular low cost emulation solution for EZ-Boards as well as evaluation boards designed by third parties. The standalone debug agent is very similar to the debug agent that is on existing EZ-KIT Lites but will have the flexibility to move from one board to another board.

With solutions ranging from cost-effective emulators (for evaluation or early development) to high performance emulators (for full development and system validation), Analog Devices provides easy, portable, non-intrusive, target-based emulation for processors through a JTAG interface. These powerful emulators perform a wide range of emulation functions, including single-step and full speed execution with pre-defined breakpoints, and viewing and/or altering of register and memory contents.

Blackfin Emulators

SHARC Emulators

TigerSHARC Emulators

ADSP-21xx Emulators

ARM Cortex Based Product Emulators

Emulator Tools Upgrade Archives

Blackfin Processors Software and Tools

The Blackfin Processors Software and Tools page provides a convenient look-up table to indicate to users what evaluation platforms, extender cards, emulators, software development tools, and middleware are available for the specific Blackfin processor they have chosen to evaluate for their designs.

Blackfin Processors Software and Tools				
Target Processor	Hardware Evaluation Platforms	Emulators	Software Development Tools	Middleware and Software Modules
ADSP-BF700 ADSP-BF701 ADSP-BF702 ADSP-BF703 ADSP-BF704 ADSP-BF705 ADSP-BF706 ADSP-BF707	Processor/System Evaluation: ADSP-BF707 EZ-Kit ADSP-BF707 BLIP ADSP-BF706 EZ-KIT Mini System Expansion Boards: Audio EI3 Extender Video Decoder EI3 Extender Video Encoder EI3 Extender WVGA/LCD EI3 Extender Camera EI3 Extender ADZS-AUDIOHDMI-EI3 Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules

ADSP-BF606	Processor/System Evaluation:	Low-Cost ICE-1000	CrossCore®	OS and Middleware
ADSP-BF607	ADSP-BF609 EZ-Board	High-Performance	Embedded Studio	Blackfin Software
ADSP-BF608	System Expansion Boards:	ICE-2000	Integrated	Modules
ADSP-BF609	Audio EI3 Extender		Development	Algorithmic, Add-in and
	Video Decoder EI3 Extender		Environment	Plug-in Software
	Video Encoder EI3 Extender			Modules
	WVGA/LCD EI3 Extender			

ADSP-BF592	Processor/System Evaluation: ADSP-BF592 EZ-Kit	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules
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ADSP-BF504	Processor/System Evaluation: ADSP-BF506F EZ-Kit	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules
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ADSP-BF512 ADSP-BF514 ADSP-BF516 ADSP-BF518	Processor/System Evaluation: ADSP-BF518 EZ-Kit System Expansion Boards: Landscape LCD EZ-Extender Bluetooth EZ-Extender USB EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules
ADSP-BF522 ADSP-BF522C ADSP-BF524 ADSP-BF524C ADSP-BF526 ADSP-BF526C	Processor/System Evaluation: ADSP-BF526 EZ-Board ADSP-BF526 EZ-Kit System Expansion Boards: Landscape LCD EZ-Extender Bluetooth EZ-Extender USB EZ-Extender Debug Agent Board	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules
ADSP-BF523 ADSP-BF523C ADSP-BF525 ADSP-BF525C ADSP-BF527 ADSP-BF527C	Processor/System Evaluation: ADSP-BF527 EZ-Kit System Expansion Boards: USB-LAN EZ-Extender FPGA EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules

ADSP-BF542	Processor/System Evaluation:	Low-Cost ICE-1000	CrossCore®	OS and Middleware
ADSP-BF544	ADSP-BF548 EZ-Kit	High-Performance	Embedded Studio	Blackfin Software
ADSP-BF547	System Expansion Boards:	ICE-2000	Integrated	Modules
ADSP-BF548	A-V EZ-Extender		Development	Algorithmic, Add-in and
ADSP-BF549	FPGA EZ-Extender		Environment	Plug-in Software
	Landscape LCD EZ-Extender		VisualDSP++	Modules
	Bluetooth EZ-Extender		Integrated	
			Development	
			Environment	

ADSP-BF534	Processor/System Evaluation:	Low-Cost ICE-1000	CrossCore®	OS and Middleware
ADSP-BF536	ADSP-BF537 EZ-Kit	High-Performance	Embedded Studio	Blackfin Software
ADSP-BF537	System Expansion Boards:	ICE-2000	Integrated	Modules
	USB-LAN EZ-Extender		Development	Algorithmic, Add-in and
	A-V EZ-Extender		Environment	Plug-in Software
	Bluetooth EZ-Extender		VisualDSP++	Modules
	FPGA EZ-Extender		Integrated	
	Audio EZ-Extender		Development	
	Landscape LCD EZ-Extender		Environment	

ADSP-BF538	Processor/System Evaluation:	Low-Cost ICE-1000	CrossCore®	OS and Middleware
ADSP-	ADSP-BF538F EZ-Kit	High-Performance	Embedded Studio	Blackfin Software
BF538F	System Expansion Boards:	ICE-2000	Integrated	Modules
	Landscape LCD EZ-Extender		Development	Algorithmic, Add-in and
			Environment	Plug-in Software
			VisualDSP++	Modules
			Integrated	
			Development	
			Environment	

ADSP-BF531 ADSP-BF532 ADSP-BF533	Processor/System Evaluation: ADSP-BF533 EZ-Kit System Expansion Boards: Blackfin EZ-Extender USB-LAN EZ-Extender A-V EZ-Extender FPGA EZ-Extender Audio EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules
ADSP-BF561	Processor/System Evaluation: ADSP-BF561 EZ-Kit System Expansion Boards: Blackfin EZ-Extender USB-LAN EZ-Extender A-V EZ-Extender FPGA EZ-Extender Audio EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware Blackfin Software Modules Algorithmic, Add-in and Plug-in Software Modules

SHARC Processors Software and Tools

The SHARC Processors Software and Tools page provides a convenient look-up table to indicate to users what evaluation platforms, extender cards, emulators, software development tools, and middleware are available for the specific SHARC processor they have chosen to evaluate for their designs.

Target Processor	Hardware Evaluation Platforms	Emulators	Software Development Tools	Middleware and Software Modules
ADSP-21562 ADSP-21563 ADSP-21565 ADSP-21566 ADSP-21567 ADSP-21569	Processor/System Evaluation: ADSP-21569 EZ-KIT	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment	OS and Middleware
ADSP-SC570 ADSP-SC571 ADSP-SC572 ADSP-SC573 ADSP-21571 ADSP-21573	Processor/System Evaluation: ADSP-SC573 EZ-Board	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment	OS and Middleware

ADSP-SC589 ADSP-SC587 ADSP-21587	Processor/System Evaluation: ADSP-SC589 EZ-Board SHARC Audio Module (SAM) System Expansion Boards (SAM): Audio Project Fin A ² B Class-D Amplifier Module	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment	OS and Middleware SAM Bare Metal Framework
ADSP-SC584 ADSP-SC583 ADSP-SC582 ADSP-21584 ADSP-21583	Processor/System Evaluation: ADSP-SC584 EZ-Board	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment	OS and Middleware
ADSP-21483 ADSP-21486 ADSP-21487 ADSP-21488 ADSP-21489	Processor/System Evaluation: ADSP-21489 EZ-Board ADSP-21489 EZ-Kit System Expansion Boards: Audio EZ-Extender USB EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware SHARC Software Modules Algorithmic, Add-in and Plug- in Software Modules
ADSP-21478 ADSP-21479	Processor/System Evaluation: ADSP-21479 EZ-Board ADSP-21479 EZ-Kit System Expansion Boards: Audio EZ-Extender USB EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware SHARC Software Modules Algorithmic, Add-in and Plug- in Software Modules

ADSP-21467 ADSP-21469	Processor/System Evaluation: ADSP-21469 EZ-Board ADSP-21469 EZ-Kit System Expansion Boards: Audio EZ-Extender USB EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware SHARC Software Modules Algorithmic, Add-in and Plug- in Software Modules
ADSP-21371 ADSP-21375	Processor/System Evaluation: ADSP-21375 EZ-Kit	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware SHARC Software Modules Algorithmic, Add-in and Plug- in Software Modules
ADSP-21367 ADSP-21368 ADSP-21369	Processor/System Evaluation: ADSP-21369 EZ-Kit System Expansion Boards: USB EZ-Extender	Low-Cost ICE-1000 High-Performance ICE-2000	CrossCore® Embedded Studio Integrated Development Environment VisualDSP++ Integrated Development Environment	OS and Middleware SHARC Software Modules Algorithmic, Add-in and Plug- in Software Modules

TigerSHARC Processors: Software and Tools

The TigerSHARC Processors Software and Tools page provides a convenient look-up table to indicate to users what evaluation platforms, emulators, and software development tools are available for the specific TigerSHARC processor they have chosen to evaluate for their designs.

Processor	Evaluation EZ-Boards and EZ-KITs	Emulators	Software Development Tools
ADSP-TS101S	ADSP-TS201S EZ-Kit Evaluation Board	USB-based Emulator USB 1.1, up to 150 KB/sec High Perf USB-based Emulator USB 2.0, up to 1.5 MB/sec	VisualDSP++ Integrated Development Environment
ADSP-TS201S	ADSP-TS201S EZ-Kit Evaluation Board	USB-based Emulator USB 1.1, up to 150 KB/sec High Perf USB-based Emulator USB 2.0, up to 1.5 MB/sec	VisualDSP++ Integrated Development Environment

ADSP-21xx Processors: Software and Tools

The ADSP-21xx Processors Software and Tools page provides a convenient look-up table to indicate to users what evaluation platforms, emulators, and software development tools are available for the specific ADSP-21xx processor they have chosen to evaluate for their designs.

Processor	Evaluation EZ-Boards and EZ-KITs	Emulators	Software Development Tools
ADSP-2181	N/A	218x EZ-ICE Serial Emulator High Speed RS-232 Serial Port	VisualDSP++ 3.5 Integrated Development Environment
ADSP-2183 ADSP-2184 ADSP-2185 ADSP-2186 ADSP-2187 ADSP-2188 ADSP-2189M	ADSP-2189M EZ-Kit Evaluation Kit	218x EZ-ICE Serial Emulator High Speed RS-232 Serial Port	VisualDSP++ 3.5 Integrated Development Environment
ADSP-2191 ADSP-2192 ADSP-2196	N/A	USB-based Emulator USB 1.1, up to 150 KB/sec High Perf USB-based Emulator USB 2.0, up to 1.5 MB/sec	VisualDSP++ 3.5 Integrated Development Environment

ADSP-21990 ADSP-21991 ADSP-21992	N/A	USB-based Emulator USB 1.1, up to 150 KB/sec High Perf USB-based Emulator USB 2.0, up to 1.5 MB/sec	VisualDSP++ 3.5 Integrated Development Environment
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Product Evaluation Boards and Kits

Search or browse the library of available evaluation boards and kits to find the information and documents needed to evaluate a specific ADI product.

Evaluation EZ-Extender Boards

The Blackfin EZ-Extender daughter boards and the SHARC EZ-Extender daughter boards give developers access and ability to connect various peripherals from Analog Devices and third parties to the expansion interface of the EZ-KIT Lite evaluation kits.

Evaluation kits provide a cost effective method for initial evaluation of an ADI processor or platform. With these kits you can learn more about developing with ADI's processors, software tools and prototype applications.

Blackfin Processors Software and Tools

SHARC Processors Software and Tools

TigerSHARC Processors Software and Tools

ADSP-21xx Processors Software and Tools

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