

VisualDSP++™ Integrated Development Environment and LabVIEW™ Kits

VisualDSP++ INTERGRATED DEVELOPMENT ENVIRONMENT:

Features: VisualDSP++ is an easy to install and easy to use integrated software development and debugging environment that enables efficient management of projects from start to finish from within a single interface. VisualDSP++ supports all Analog Devices processor families. **Contents:** • Assembler • Linker • Simulator • C/C++ compiler • Debugger • PROM splitter • Graphical plotting • Expert Linker • Math, DSP and C/C++ runtime library • Integrated development environment • VisualDSP++ Kernel • Statistical profiling • VisualDSP++ Component Software Engineering

LabVIEW KITS:

Features: National Instruments LabVIEW Embedded Module for Analog Devices Blackfin® Processors is a comprehensive graphical development environment for embedded design. Jointly developed by ADI and National Instruments

LabVIEW Evaluation Kit Contents: • A comprehensive 60 day fully featured evaluation platform • LabVIEW Embedded for Blackfin Module, VisualDSP++ 4.5

• An ADSP-BF537 EZ-KIT Lite • Schematics • Cables • Headphones

LabVIEW Full Development Kit Contents: • LabVIEW Embedded for Blackfin Module • VisualDSP++ 4.5 • An ADSP-BF537 EZ-KIT Lite • Schematics • Cables • Headphones • One year National Instruments technical support subscription

VDSP-21XX-PC-FULL-ND	\$3718.75
VDSP-BLKFNPCFULL-ND	\$3718.75
VDSP-BLKFNPCFLOAT-ND	\$4515.63
VDSP-SHARC-PCFULL-ND	\$3500.00
VDSP-TS-PC-FULL-ND	\$3718.75
VDSP-LABVIEW-EVAL-ND LabVIEW Evaluation Kit	\$211.44
VDSP-LABVIEW-EMB-ND LabVIEW Full Development Kit	\$5307.19

◆ RoHS Compliant (Note: ADSP-218x does not have C++ support.)

Emulator Development Tools

Features:

All emulators require VisualDSP++ software for the corresponding processor.

ADDS-218X-ICE2.5V-ND	\$2119.69
ADDS-HPPCI-ICE-ND	\$4250.00
ADZS-HPUSB-ICE-ND◆	\$4250.00
ADZS-USB-ICE-ND◆	\$1275.00

◆ RoHS Compliant

EZ-KIT Lite™ Evaluation Kits, Multimedia Kits, Audio Starter Kits and Extender Boards

EZ-KIT Lite Evaluation Kits: **Features:** The EZ-KIT Lite provides an easy way to evaluate the power of ADI's processors and begin to develop applications. **Contents:** • Stand-alone evaluation board • Evaluation suite of VisualDSP++ to facilitate architecture evaluations via a PC-hosted tool set.

EZ-KIT Lite users can: • Evaluate ADI's processors • Learn about DSP applications • Simulate and debug applications • Prototype applications

MMSK Multimedia Starter Kits: **Features:** Blackfin® Multimedia Starter Kit provides you everything you need to get started on a multimedia application. Use a Blackfin EZ-KIT Lite and EZ-Extenders daughter card to perform multimedia related tasks.

NEW! Audio Starter Kit: **Features:** Blackfin® Audio Starter Kit provides you with everything you need to get started on an audio application. Use a Blackfin EZ-KIT Lite and EZ-Extenders daughter board(s) to perform audio related tasks.

EZ-Extender Boards: **Features:** EZ-Extender daughter boards aids in design and prototype. The board extends the capabilities of the evaluation system by providing a connection to various signal chains.

EZ-KIT Lite Evaluation Kits

ADZS-TS201S-EZLITE-ND◆	\$1057.19
ADDS-21065LEZLITE-ND	\$381.23
ADDS-21161NEZLITE-ND	\$525.94
ADZS-21262-EZLITE-ND◆	\$525.94
ADZS-21369-EZLITE-ND◆	\$525.94
ADZS-BF527-EZLITE-ND◆ NEW!	\$950.94
ADZS-BF533-EZLITE-ND◆	\$425.00
ADZS-BF537-EZLITE-ND◆	\$371.88
ADZS-BF538F-EZLITE-ND◆	\$478.13
ADZS-BF548-EZLITE-ND◆	\$1057.19
ADZS-BF561-EZLITE-ND◆	\$525.94

◆ RoHS Compliant

MMSK Multimedia Starter Kits

ADZS-BF533-MMSKIT-ND◆	\$950.94
ADZS-BF561-MMSKIT-ND◆	\$950.94

NEW! Audio Starter Kit NEW!

ADZS-BF537-ASKIT-ND◆	\$796.88
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EZ-Extender Boards

ADZS-BF-EZEXT-1-ND◆	\$207.19
ADZS-BFAV-EZEXT-ND◆	\$239.06
ADZS-BFAUDIO-EZEXT-ND◆	\$239.06
ADZS-BFFPGA-EZEXT-ND◆	\$345.31
ADZS-USBLAN-EZEXT-ND◆	\$239.06

DSP Based Motor Control Applications (ADSP-2100 Family Code Compatible)

ADMC401ADVEALKIT-ND	\$521.40
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Program RAM	Program ROM	Data RAM	Program FLASH	Voltage Reference	Clock (MHz)	Package	Digi-Key Part No.	Price Each		
								1	25	100
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-DIP	ADMCF326BN-ND	27.12	25.32	23.51
							ADMCF328BR-ND	22.31	20.82	19.34
2K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.5V	26	144-LQFP	ADMC401BSTZ-ND◆	35.42	33.06	30.70

◆ RoHS Compliant

Precision Analog Microcontrollers

MicroConverter™ ICs were the first to integrate true 12-bit to 24-bit analog precision ADCs, in-circuit reprogrammable Flash/EE memory and an on-chip 8052 or ARM core. Applications include industrial, instrumentation, communications, and automotive control.

Features: Precision Analog:

• 12-bit to 24-bit ADC resolution • Sample rates up to 1Msps • Flexible ADC input multiplexing

• Programmable gain differential inputs • Self-calibration • On-chip 2.5V band gap reference • Single, dual or quad rail-to-rail DAC

Integrated Programmable Peripherals: • 8052 or ARM7 MCU core (up to 45 MIPS) • Flash/EE code memory (up to 62k) • Flash/EE data memory (up to 4k) • RAM (up to 8k) • Flexible SPI, I2C, and UART serial ports • High speed baud rate generator • Multiple PWM outputs

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			
											1	25	100	
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C - 85°C	52-MQFP	ADUC812BSZ-ND◆	15.71	14.15	12.55	
				16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C - 125°C	28-TSSOP	ADUC814ARUZ-ND◆	8.56	7.71	6.84
				16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C - 125°C	28-TSSOP	ADUC814BRUZ-ND◆	10.00	9.00	7.98
				32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C - 85°C	56-LFCSP	ADUC816BCP-ND	18.98	17.09	15.15
				32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C - 85°C	52-MQFP	ADUC816BS-ND	18.98	17.09	15.15
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C - 85°C	52-MQFP	ADUC816BSZ-ND◆	15.53	14.49	13.46	
				32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C - 85°C	56-LFCSP	ADUC824BCP-ND	21.21	19.80	18.39
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	56-LFCSP	ADUC831BCP-ND	18.24	16.43	14.57	
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	52-MQFP	ADUC831BSZ-ND◆	16.58	14.93	13.24
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 125°C	52-MQFP	ADUC832BSZ-ND◆	16.58	14.93	13.24
62	4K	2K + 256	32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C - 125°C	52-MQFP	ADUC834BSZ-ND◆	21.00	19.60	18.20	
				32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C - 125°C	52-MQFP	ADUC836BSZ-ND◆	16.88	15.75	14.63
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	52-MQFP	ADUC841BSZ62-3-ND◆	16.43	15.33	14.24
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	52-MQFP	ADUC841BSZ62-5-ND◆	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	56-LFCSP	ADUC841BCP8-5-ND	12.41	11.18	9.91	
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	56-LFCSP	ADUC842BCPZ62-3-ND◆	16.43	15.33	14.24
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	52-MQFP	ADUC842BSZ62-3-ND◆	18.24	16.43	14.57
				32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C - 85°C	52-MQFP	ADUC842BSZ62-5-ND◆	16.43	15.33	14.24

◆ RoHS Compliant

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More Product Available Online: www.digkey.com

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