

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	2738.38
VDSP-BLKFN-PCFULL-ND	2699.81
VDSP-BLKFNPCFLOAT-ND	3278.35
VDSP-SHARC-PCFULL-ND	2577.30
VDSP-TS-PC-FULL-ND	2738.38
VDSP-LABVIEW-EVAL-ND LabVIEW Evaluation Kit	153.51
VDSP-LABVIEW-EMB-ND♦ LabVIEW Full Development Kit	3853.02

♦ 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	1538.89
ADDS-HPPCI-ICE-ND	3085.50
ADZS-HPUSB-ICE-ND♦	3085.50
ADZS-USB-ICE-ND♦	925.65

♦ RoHS Compliant

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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: 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.

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♦	771.38
ADDS-21065LEZLITE-ND	276.77
ADDS-21161NEZLITE-ND	381.83
ADZS-21262-EZLITE-ND♦	385.69
ADZS-21369-EZLITE-ND♦	385.69
ADZS-BF527-EZLITE-ND♦	694.24
ADZS-BF533-EZLITE-ND♦	347.12
ADZS-BF537-EZLITE-ND♦	269.98
ADZS-BF538F-EZLITE-ND♦	347.12
ADZS-BF548-EZLITE-ND♦	771.38
ADZS-BF561-EZLITE-ND♦	385.69

♦ RoHS Compliant

MMSK Multimedia Starter Kits

ADZS-BF533-MMSKIT-ND♦	694.24
ADZS-BF561-MMSKIT-ND♦	694.24

Audio Starter Kit

ADZS-BF537-ASKIT-ND♦	586.25
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EZ-Extender Boards

ADZS-BF-EZEXT-1-ND♦	154.28
ADZS-BFAV-EZEXT-ND♦	177.42
ADZS-BFAUDIO-EZEXT-ND♦	177.42
ADZS-BFFPGA-EZEXT-ND♦	250.70
ADZS-USBLAN-EZEXT-ND♦	177.42

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

ADMC401ADVEVALKIT-ND 378.54

Program RAM	Program ROM	Data RAM	Program FLASH	Voltage Reference	Clock (MHz)	Package	Digi-Key Part No.	1	Price Each 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	19.69	18.38	17.07
						28-SOIC	ADMCF328BR-ND	16.20	15.12	14.04

♦ 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.

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

Features: Precision Analog:

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

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.	1	Price Each 25	100
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC812BSZ-ND♦	11.54	10.39	9.22
			16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814ARUZ-ND♦	6.29	5.67	5.03
			16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814BRUZ-ND♦	7.34	6.62	5.87
			32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC816BCP-ND	13.95	12.56	11.14
			32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BSZ-ND♦	11.41	10.65	9.89
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC831BCP-ND	13.40	12.07	10.70
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC831BSZ-ND♦	12.18	10.97	9.73
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC832BSZ-ND♦	12.18	10.97	9.73
			32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC834BSZ-ND♦	15.43	14.41	13.38
			32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC836BSZ-ND♦	12.41	11.58	10.75
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-3-ND♦	12.07	11.27	10.46
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-5-ND♦	12.07	11.27	10.46
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP8-5-ND	9.12	8.22	7.29
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCPZ62-3-ND♦	12.07	11.27	10.46
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BSZ62-5-ND♦	12.07	11.27	10.46

♦ RoHS Compliant

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Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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