



## Analog Devices - ADSP-BF526-EZLITE - ADSP-BF526 EZ-KIT Lite

### Product Overview:

The ADSP-BF526 EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-BF526 Blackfin® Processors via a USB-based, PC-hosted tool set. With this EZ-KIT Lite, users can learn more about the Analog Devices (ADI) ADSP-BF526 hardware and software development, and quickly prototype a wide range of applications.



### Kit Contents:

The EZ-KIT Lite includes

- ADSP-BF526 Blackfin Processor desktop evaluation board
- evaluation suite of the VisualDSP++® development and debugging environment
- C/C++ compiler, assembler, and linker

**Note-** The evaluation suite of VisualDSP++ is designed to be used with the EZ-KIT Lite only. The EZ-KIT Lite also comes with a standalone debug agent board that is removable to allow a user to plug-in an external emulator.

### Key Features:

- Analog Devices ADSP-BF526 Blackfin processor
  - Core performance up to 400 MHz
  - 208-pin BGA package
- Programmable VDDINT core power
  - Analog Devices AD5258 TWI digital potentiometer
  - Analog Devices ADP1715 low dropout linear regulator
- Mobile SDRAM Micron MT48H32M16 – 64 MB (8M x 16-bits x 4 banks)
- Parallel flash memory Numonyx M58WR032KB – 32 Mb (2M x 16-bits)
- NAND flash memory 2 Gb Numonyx NAND02G-B2C

- SPI flash memory SST SST25WF040 – 4 Mb
- Audio CODEC: ADI SSM2602 1.8V low power CODEC
- Ethernet PHY: SMSC (RMII) 3.3V with internal 1.8V regulator, LAN8700
- Battery Charger: ADP2291, 1.5A linear charger, single cell LI
- Battery: Lithium ION, 740mAh, Ultralife UBBP005

## Additional features

- Fuel Gauge: Benchmarq (TI), I2C interface BQ2750
- UART: ADM1385 RS-232 line driver/receiver 3.3V, DB9 female connector
- RTC Battery: 3.0 Volt Li-ION, CR1632(125mAh)
- LEDs - 9 LEDs: 1 board reset (red), 3 general purpose (amber), 3 Battery status,, 2 Ethernet (amber)
- Push Buttons: 5 push buttons w/ debounce logic: 1 reset, 2 programmable flag, 1 wake and 1 power down
- Connectors: USB OTG, Ethernet, HOST, EBIU Expansion, Group 1 Expansion, Group 2 Expansion, Group 3 Expansion, land grid array
- JTAG ICE 14-pin header, USB cable
- Ethernet cable
- Power supply, CE compliant external power supply (US or European)
- uClinux CD

## Ordering Information:

### Products:

Part Number	Supplier	Farnell P/N	Newark P/N
ADZS-BF526-EZLITE	Analog Devices	1758276	19P8254

### Associated Products:

Part Number	Supplier	Description	Farnell P/N	Newark P/N
ADSP-BF526KBCZEN GA	Analog Device	Blackfin processor	NA	NA
MT48H32M16	<a href="#">Micron</a>	Mobile SDRAM	NA	NA
M58WR032KB	Numonyx	Parallel flash memory	NA	NA
NAND02GW3B2CN6E	Numonyx	NAND flash memory	1224404	37M5537
SST25WF040	SST	SPI flash memory	NA	NA

SSM2602	Analog Device	Audio CODEC	NA	NA
LAN8700IC-AEZG	SMSC	Ethernet PHY	1711345	10R8346
ADP2291	Analog Device	Battery Charger	1461534	59K2530
ADZS-DBAGENT-BRD	Analog Device	Debug Agent Board	1776226	19P8256
ADZS-BFLLCD-EZEXT	Analog Device	LCD EZ-Extender( DB)	1776225	19P8252
ADZS-HPUSB-ICE	Analog Device	USB-Based Emulator	1424589	14M7074

## Similar Product:

Part Number	Description	Supplier	Support Device	Farnell P/N	Newark P/N
ADZS-BF526-EZBR D	BOARD, EVAL, EZLITE, BF526	Analog Device	ADSP-BF522, ADSP-BF524, ADSP-BF526	1758274	32R8731

## Document List:

## Datasheets:

Part Number	Description	Size
ADSP-BF526	<a href="#">Blackfin processor</a>	6.04MB
MT48H32M16	<a href="#">Mobile SDRAM</a>	2.36MB
M58WR032KB	<a href="#">Parallel flash memory</a>	2.33MB
NAND02G-B2C	<a href="#">NAND flash memory</a>	1.35MB
SST25WF040	<a href="#">SPI flash memory</a>	881KB
SSM2602	<a href="#">Audio CODEC</a>	652KB
LAN8700	<a href="#">Ethernet PHY</a>	1.14MB
ADP2291	<a href="#">Battery Charger</a>	420KB

## Application Notes:

File Name	Size
<a href="#">Using the NAND Flash Controller on Blackfin Processors</a>	2.47MB
<a href="#">Expert Pin Multiplexing Plug-in for Blackfin® Processors</a>	336KB

<a href="#">Using External Switching Regulators with Blackfin® Processors</a>	163KB
<a href="#">Host DMA Port on ADSP-BF52x and ADSP-BF54x Blackfin® Processors</a>	614KB
<a href="#">Blackfin® Processor and SDRAM Technology</a>	958KB
<a href="#">Connecting Blackfin® Processors to the AD7656 SAR ADC</a>	176KB
<a href="#">Building Complex VDK/LwIP Applications Using Blackfin® Processors</a>	162KB
<a href="#">Hardware Design Checklist for the Blackfin® Processors</a>	78KB
<a href="#">Using Cache Memory on Blackfin® Processors</a>	1.59MB
<a href="#">Emulator and EZ-KIT Lite® Evaluation System Troubleshooting Guide</a>	100KB
<a href="#">Analog Devices JTAG Emulation Technical Reference</a>	306KB

## Hardware & Software:

File Name	Size
<a href="#">Software Module</a>	NA
<a href="#">VISUALDSP++ DEVELOPMENT SOFTWARE RELEASE 5.0 DOWNLOAD TEST DRIVE (90-DAY FREE TRIAL)</a>	NA
<a href="#">Board Design Database</a>	8.48MB