



# EVAL-BF518F-EZLITE

The ADSP-BF518F EZ-Kit Lite evaluation hardware provides a low-cost hardware solution for evaluating the ADSP-BF51x Blackfin processor family.

Overview

System Requirements

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Related Hardware

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PDF

Evaluation Kit Manuals  
Rev.1.3

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Board Design Database  
Rev.1.0

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## Features

- ADSP-BF518F:  
Blackfin processor: 400 MhZ, 176 Lead LQFP
- SDRAM: 64 MB, 32M x 16, Micron MT48LC32M16A2TG ,3.3V
- FLASH: 4 MB (2M x 16 ), Numonyx M29W320DB 3.3V, FBGA48
- SPI FLASH: 4 Mb on-chip SPI 1.8V
- Audio CODEC: ADI [SSM2602](#) CODEC 3.3 Volts, 12MHz input
- A/D Converter: [AD7266](#).

## Markets & Technology

### Aerospace and Defense

- [Milcom](#)

## Applicable Parts

- [ADSP-BF512](#)
  - [ADSP-BF514](#)
  - [ADSP-BF516](#)
  - [ADSP-BF518](#)
  - [ADSP-BF512F](#)
- View All

## Package Contents

- EZ-Board Package Contents
- ADSP-BF518F EZ-Board™
  - Universal 5.0V DC power supply
  - Secure digital (SD) memory card
  - 7-foot Ethernet patch cable
  - Two 6-foot 3.5 mm male-to-male audio cables
  - 3.5 mm stereo earbuds

EZ-KIT Package Contents

Differential/Single-Ended Input, Dual 2 MSPS, 12 bit 3 Channel

- Power Analysis  
Interface: Precision resistors to measure VDDINT, VDDEXT, VDDMEM, VDDFLASH
- Ethernet PHY: National Semiconductor 10/100 Single Port PHY
- LEDs: 13 LEDs: 1 power (green), 1 board reset (red), 3 general purpose (amber), 8 Ethernet (amber)
- RTC Battery: 3.0 Volt Li-ION, CR2430 (270mAh)
- Connectors: Ethernet, SD, EBIU Expansion, Group 1A and 1B Expansion, Group 2A Expansion

- ADSP-BF518F EZ-Board™
- [Standalone debug agent](#) (SADA2)
- USB cable
- Universal 5.0V DC power supply
- Secure digital (SD) memory card
- 7-foot Ethernet patch cable
- Two 6-foot 3.5 mm male-to-male audio cables
- 3.5 mm stereo earbuds

## Product Details

The ADSP-BF518F EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-BF512/F, BF514/F, BF516/F, BF518/F 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-BF518F hardware and software development, and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-BF518F Blackfin Processor desktop evaluation board along with an evaluation suite of the VisualDSP++® development and debugging environment, including the C/C++ compiler, assembler, and linker. 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... [Show More..](#)

## System Requirements

- Windows XP Professional SP3 (32-bit only).
- Windows Vista Business/Enterprise/Ultimate SP2 (32-bit only). It is recommended to install the software in a non-UAC-protected location.
- Windows 7 Professional/Enterprise/Ultimate (32 and 64-bit). It is recommended to install the software in a non-UAC-protected location.
- Minimum of 2 GHz single core processor, 3.3 GHz dual core is recommended.
- Minimum of 1 GB memory (RAM), 4 GB is recommended.
- Minimum of 2 GB hard disk (HDD) space is required.
- CrossCore Embedded Studio for Analog Devices Processors.
- VisualDSP++ 5.0 and Latest Update.

## Documentation

**ADSP-BF518F EZ-Board® Evaluation System Manual (Rev. 1.3)**

PDF

843 kB

**HPUSB, USB, and HPPCI Emulator User's Guide (Rev. 3.2)**

PDF

746 kB

**ICE-100B Emulator User's Guide (Rev. 1.1)**

PDF

348 kB

**Getting Started With Blackfin Processors (Rev. 6.0)**

PDF

3.08 M

**ADSP-BF518F EZ-Board Board Design Database (Rev. 1.0)**

Contains all of the electronic information required for the design, layout, fabrication and assembly of the ADSP-BF518F EZ-Board.

ZIP

9716 kB

## Software



5 See All

1 Software Modules

1 DSP Software

1 Design Tools

2 Software Modules

**Blackfin Software Modules****ADSP-BF518F Board Support Package (Rev. 1.0.0)**[Download Software](#)[Download Release Notes](#)**Blackfin Processors Software and Tools****DTMF Decoder, Blackfin**

The Dual Tone Multi Frequency (DTMF) Decoder library for the Blackfin processor implements a Dual Tone Multi Frequency (DTMF) Decoder, which is compliant with the Q.24 ITU specification.

**Comms**

Adaptive Jitter Buffer

## Related Hardware

**Emulator Hardware**

Buy



## Evaluation Boards

Pricing displayed is based on 1-piece.

| Model                            | Description      | Price | RoHS |
|----------------------------------|------------------|-------|------|
| ADZS-BF518F-EZBRD<br>Production  | Evaluation Board |       | Yes  |
| ADZS-BF518F-EZLITE<br>Production | Evaluation Board |       | Yes  |
| ADZS-BFBLUET-EZEXT<br>Production | Evaluation Board |       | Yes  |
| ADZS-BFLLCD-EZEXT<br>Production  | Evaluation Board |       | Yes  |
| ADZS-BFSHUSB-EZEXT<br>Production | Evaluation Board |       | Yes  |
| ADZS-HPUSB-ICE<br>Production     | Evaluation Board |       | Yes  |
| ADZS-ICE-100B<br>Obsolete        | Evaluation Board | -     | Yes  |
| ADZS-SADA2-BRD<br>Production     | Evaluation Board |       | Yes  |
| ADZS-USB-ICE<br>Obsolete         | Evaluation Board | -     | Yes  |

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Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.

15,000

4,700+

125,000

50+

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