

# BF533mod

Blackfin Mezzanine Board with Audio Interface  
and 32 MBytes SDRAM based on  
Analog Devices ADSP-BF533

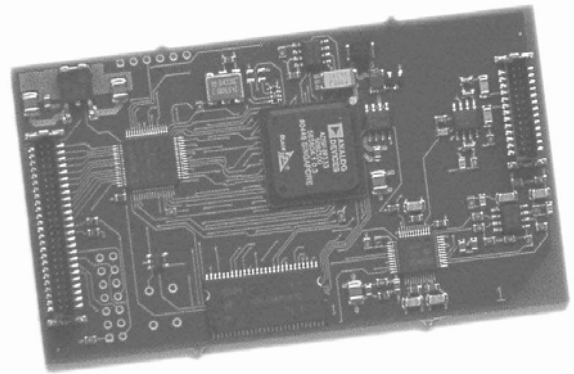


The **BF533mod** mezzanine card is a full-featured credit card sized DSP subsystem based on Analog Devices Blackfin family of DSPs. Also included is an 32M x 16 SDRAM for external data and program memory storage.

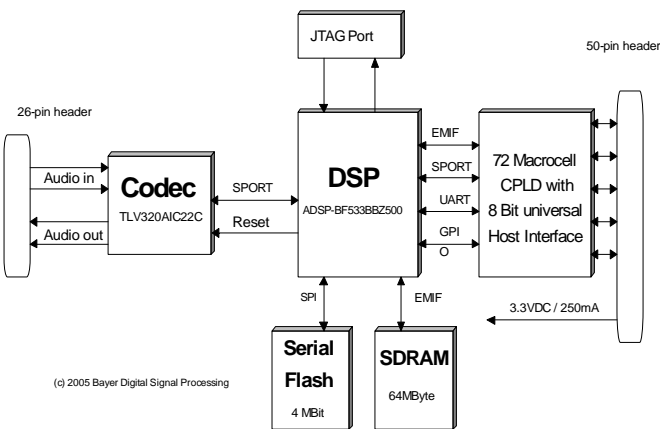
For booting the DSP uses serial flash, which is populated to the board (4 Mbit for program and data).

For a wide range of typical DSP applications a dual-channel audio codec is provided. The codec is excellent for many telecom and audio applications.

The mechanical dimensions and the electrical functions of the board are chosen such that other DSP boards of the MOD series can replace an existing board without the need to completely reconfigure the "motherboard" hosting the module.



BF533mod DSP board Simplified Block Diagram



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## Specifications:



**Power supply:** 5V only are required, approx. 100mA

**DSP:** Analog Devices Blackfin BF532/533, 400/600MHz

**Memory:** up to 64 MByte SDRAM, 4 Mbit serial Flash

**CPLD:** Xilinx XC9572XL, 72 macrocells

**Audio:** 2-ch codec, sampling @ 22kHz max., 16 bit

**Physical Dimensions:** 100.4mm x 57.2 mm x 14mm (includes connectors)



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## Ingenieurbüro Bayer DSP Solutions

Ingenieurbüro Bayer DSP Solutions was founded more than a decade ago by Andreas Bayer, a first hour DSP specialist.

Originally specializing in the telecommunication field, the company has grown its DSP expertise to provide comprehensive services around Digital Signal Processing applications by using DSP chips from Analog Devices, Texas Instruments, NEC, Freescale and other renowned DSP vendors.

Our goal is to provide comprehensive coverage of all Digital Signal Processing topics, including hardware design, FPGA design, DSP algorithms, software integration, tools and complete products.

We support many DSP families including Texas Instruments C54x, C55x, C3x, C6x, Analog Devices ADSP218x, SHARC and Blackfin, Motorola DSP56K as well as DSPs from other vendors.