

BFLANcore

Blackfin board for uClinux and VisualDSP with built in LAN based on a BF537 and a Spartan3E FPGA



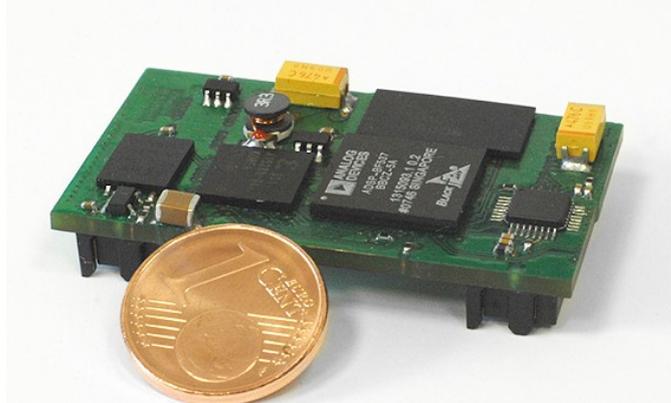
The **BFLANcore** board is a micro system based on Analog Devices' Blackfin family. A single BF537 capable of running uClinux with Ethernet MAC and on-board PHY in combination with a Xilinx Spartan3E FPGA makes up a complete high performance DSP controller board for all sorts of embedded applications.

With a size of only 1.0" x 1.8", the board will fit every embedded platform. High density connectors (.8mm pitch) provide access to 33 general purpose (incl. 11 LVDS pairs) plus a number of DSP I/O signals as well as LAN and JTAG signals for both DSP and FPGA.

The BF537 can boot via TFTP over the network and load configuration data to the FPGA. Alternatively, the board can be booted from an on-board serial flash.

The only power supply required is a 3.3Volt 300 mA rail. The core voltages for the Blackfin and the FPGA are generated on board.

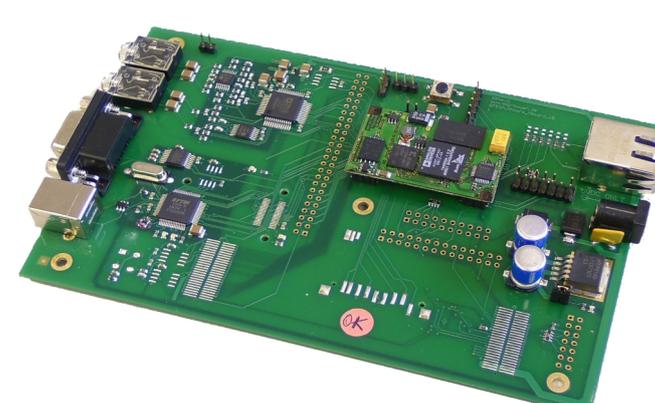
Example projects for VisualDSP and uClinux are available with the hardware, demonstrating how to start up the Blackfins and launch applications.



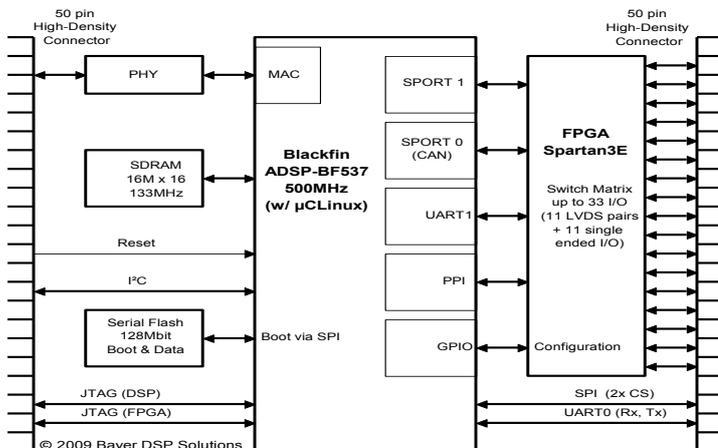
Miniature size Blackfin Module compared to the size of a one cent coin

A motherboard for one **BFLANcore** board with many I/O signals accessible at 100mil header plus JTAG headers for easy evaluation, a suitable power supply and JTAG headers is available on request.

The motherboard features a 2-channel audio interface based on Analog Devices' AD1836 audio codec, a high-speed USB2.0 Port using the FT2232H from FTDI and a serial port (UART) with level converters. The motherboard can be mounted into a aluminum tube case for standard 160x100mm Euro cards.



Motherboard for BFLANcore, also suitable for BF561multicore



Specifications*:

- Power consumption:** approx. 1 Watt @ 3.3V
- Memory:** 32MB SDRAM, 64/128 Mb serial flash
- I/O:** Up to 33 general purpose I/O pins including I²C, SPI, UARTs, SPORTs, PPI and LVDS
- Processor:** ADSP-BF537-BBCZ5A
- FPGA:** Xilinx Spartan 3E XC3S100E or XC3S500E
- Physical Dimensions:** 46mm x 26 mm x 13mm (including connectors)

*Specifications may change without notice



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