ACM-BF525C
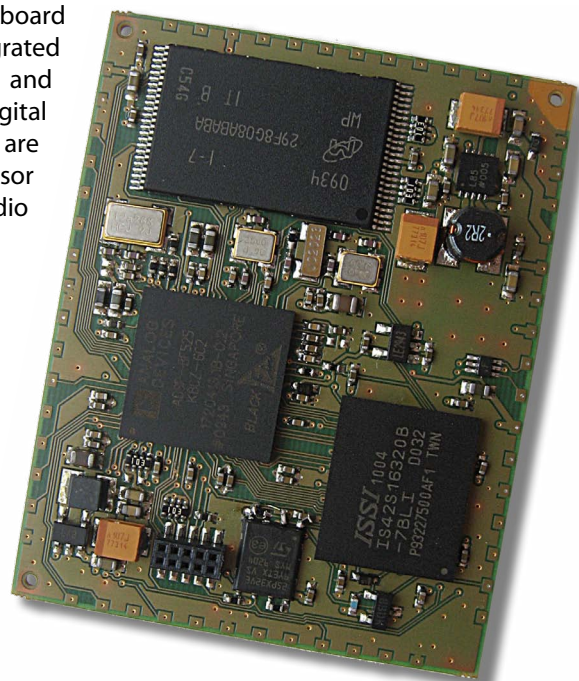
Blackfin® Core Module

Core Module ACM-BF525C

The Core Module ACM-BF525C is optimized for audio applications and performance. The module integrates processor, RAM, flash, external peripheral controllers and power supply at a size of 38x48mm! It is based on the high performance ADSP-BF525C from Analog Devices, Inc. The ACM-BF525C is designed for commercial applications (commercial temperature range).

It addresses 64MByte SDRAM via its 16bit wide SDRAM bus, has an onboard NOR-flash of 4MByte and a NAND-flash with 1024MByte. The integrated Stereo-Audio-Codec enables the audio interfaces Line In/Out, Mic. In and HP Out. In addition the Core Module offers the developer several digital interfaces like UART, USB, SPI, I²C and numerous GPIOs. These interfaces are building in combination with the high performance embedded processor and the high capacity onboard flash, a perfect basis for professional audio application engineering.

Technical Details of ACM-BF525C

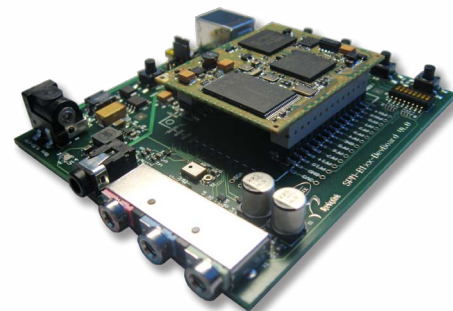|	
PROZESSOR	ADSP-BF525C Blackfin® DSP
CLOCK	600MHz
LOCKBOX SECURE TECHNOLOGY	✓
I²C / SPI / UART / SPORT	1 / 1 / 1 / 1
USB2.0 OTG	1
INTEGRATED AUDIO CODEC	Stereo, 24-bit ADCs and DACs
RAM	64MByte SDRAM
FLASH	4MByte NOR und 1024MByte NAND
TEMPERATURE RANGE	Commercial (0°C to 70°C)
ADDITIONAL FEATURES	Mic., Line In / Out and HP Interface
	On-Board core voltage regulator
	Low voltage reset circuit
DIMENSIONS	38x48mm

Applications

- » Audio processing
- » Mulimedia applications
- » Voice-over-IP applications
- » Portable media players

Operating Systems

- » BLACKSheep® OS (RTOS)
- » uClinux (GPOS)

ADK: ACM-BF525C and ADEV-BF52xC

Ordering Information

Order No.	Info
100-8233-1	ACM-BF525C-C-C-Q25S64F4N1024
100-8232-1	ADEV-BF52xC Audio Development Board
100-3306	ADK - Audio Development Kit with ACM-BF525C and ADEV-BF52xC

BLUE TECHNIX