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eCM-BF609

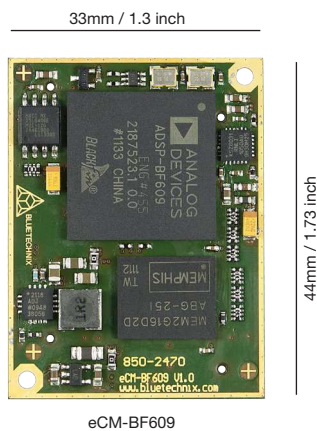
Blackfin® based System-on-Module



BLUETECHNIX
Embedding Ideas

The Core Module eCM-BF609 is optimized for performance and parallel data processing. The module integrates processor, DDR2 SDRAM, flash, Ethernet PHY and power supply at a size of 44x33mm! It is based on the latest high performance dual-core processor ADSP-BF609 from Analog Devices.

The ADSP-BF609 integrates a co-processor unit to accelerate signal and image algorithms (i.e. for pre- and co-processing of video frames in ADAS applications). The eCM-BF609 is designed for industrial and commercial applications. It addresses 256MByte DDR2 SDRAM via its dedicated DDR2 interface and has an onboard SPI flash of 8MByte.



Highlights

- » ADSP BF609 Dual Core DSP
- » 256 MByte DDR2 SD-RAM up to 266 MHz
- » 8 MByte SPI Flash
- » Optimized for parallel digital signal processing
- » Pipeline Vision Processor (PVP)
- » Industrial SoM available

Most of the ADSP-BF609's pins are available on the Core Module connectors for maximum flexibility during system design.

Applications

- » Parallel digital signal processing
- » Automotive vision systems
- » Imaging and consumer multimedia
- » Stereo vision systems

Ordering Information

Order No.	Info
100-3401	Blackfin Evaluation Starter Package with eCM-BF609
100-1217-1	eCM-BF609
100-1218-1	eCM-BF609 Industrial

eCM-BF609

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ADSP-BF609 Facts

The ADSP-BF609 Blackfin processor is optimized for embedded vision and video analytics applications using a dual-core fixed-point DSP processor with a unique pipelined vision processor (PVP). The PVP is a set of functional blocks next to the Blackfin cores designed to accelerate image processing algorithms and reduce overall bandwidth requirements.

Feature Overview

PROCESSOR	ADSP-BF609SKBCZ-6A Blackfin® embedded processor (Dual Core)
CLOCK	2 x 500 MHz
RAM	256 MByte DDR2 SD-RAM up to 266 MHz
FLASH	8 MByte SPI
ETHERNET 10/100 MBIT	1 with IEEE1588 Precision Clock Synchronization
PPI	3 (1 x 24 bit and 2 x 18 bit)
CAN 2.0 / TIMER / COUNTER	1 / 8 / 1
USB 2.0 OTG	1
SPI / I²C / UART / SPORT	2 / 2 / 2 / 3
EMMC/RSI	1
LINK PORT	4
GPIO / ACM / PWM	112 / 1 / 2
TEMPERATURE RANGE*	Commercial (0°C to +70°C) Industrial (-40 to +85°C)
DIMENSIONS	44 x 33mm
ADDITIONAL	On-Board core voltage regulator Low voltage reset circuit

*depends on version - see ordering information

Further information at
<http://www.bluetechnix.com/goto/ecm-bf609>

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