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Understanding [Embedded - Microcontroller, Microprocessor, FPGA Modules](#)

Embedded - Microcontroller, Microprocessor, and FPGA Modules are fundamental components in modern electronic systems, offering a wide range of functionalities and capabilities. Microcontrollers are compact integrated circuits designed to execute specific control tasks within an embedded system. They typically include a processor, memory, and input/output peripherals on a single chip. Microprocessors, on the other hand, are more powerful processing units used in complex computing tasks, often requiring external memory and peripherals. FPGAs (Field Programmable Gate Arrays) are highly flexible devices that can be configured by the user to perform specific logic functions, making them invaluable in applications requiring customization and adaptability.

Applications of [Embedded - Microcontroller,](#)

Details

Product Status	Active
Module/Board Type	MPU Core
Core Processor	CM-BF537
Co-Processor	-
Speed	600MHz
Flash Size	4MB
RAM Size	32MB
Connector Type	Expansion 2 x 60
Size / Dimension	1.44" x 1.24" (36.5mm x 31.5mm)
Operating Temperature	0°C ~ 70°C
Purchase URL	https://www.e-xfl.com/product-detail/bluetechnix/100-1221-3

CM-BF537E

Blackfin® Core Module

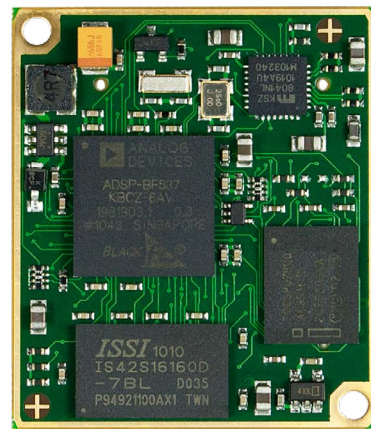
The Core Module CM-BF537 is characterized by its configuration possibility for a number of different fields of application. The module integrates processor, RAM, flash, external peripheral controllers and power supply at a size of 31.5x36.5mm! It is based at the high performance ADSP-BF537 from Analog Devices.

The Core-Module is designed for commercial and industrial usage (commercial & industrial temperature range). It addresses up to 64MByte SDRAM via its 16bit wide SDRAM bus, has an onboard NOR-flash of 4MByte and offers a CAN interface. In addition it has the physical Ethernet transceiver (10/100Mbit) onboard.

Features

CPU		Analog Devices BF537 @ 600MHz
RAM*		32/64MByte SDRAM up to 133MHz
FLASH		4MByte up to 8MByte
INTERFACES	CAN	1
	ETHERNET	1x10/100 Mbit Ethernet
	PPI	1
	SPI	1
	SPORT	2
	TWI/I²C	1
	UART	2
ADDITIONAL FEATURES		Single 3.3V supply voltage On-board core voltage regulator Low voltage reset circuit
TEMP. RANGE*		0°C to +70°C / -40°C to +85°C
VERSIONS		Connector
DIMENSIONS		31x36mm

* depends on version - see ordering information



Development Support

- » EVAL-BF5xx Evaluation Board
- » DEV-BF5xx Development Board
- » DEV-BF5xxDA-Lite Development Board
- » BLACKSheep® OS
- » uClinux Port available

Ordering Information

Order No.	Info
100-1221-3	CM-BF537-C-C-Q25S32F4 (CM-BF537E)
100-1229-3	CM-BF537-C-I-Q25S32F4 (CM-BF537E-I)
100-1273-3	CM-BF537-C-C-Q25S64F4 (CM-BF537E-64SD)

Applications

- » Robotics
- » Video security
- » Video surveillance
- » Industrial distributed control
- » Industrial factory automation
- » Remote monitoring devices
- » Point-of-sale terminals
- » VoIP
- » Biometrics/security
- » Instrumentation
- » Medical appliances
- » Consumer appliances

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