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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-BF548
Co-Processor	-
Speed	533MHz
Flash Size	8MB
RAM Size	64MB
Connector Type	Expansion 2 x 100
Size / Dimension	1.22" x 1.61" (31mm x 41mm)
Operating Temperature	-40°C ~ 85°C
Purchase URL	https://www.e-xfl.com/product-detail/bluetechnix/100-1241-1

CM-BF548

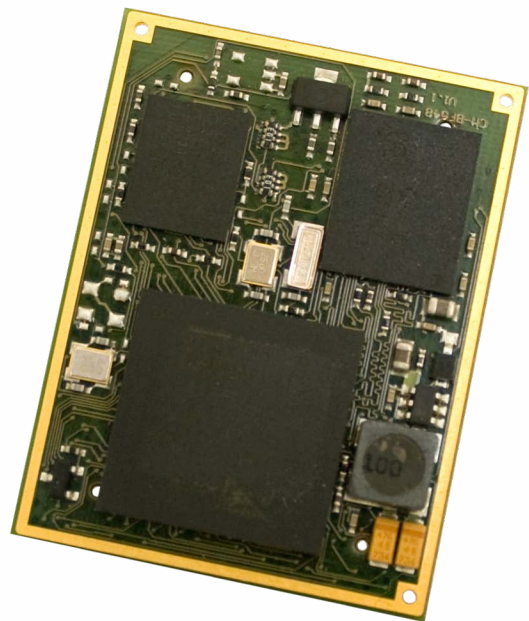
Blackfin® Core Module

The Core- Module CM-BF548 is characterized by its numerous peripheral interfaces, its performance in combination with its high speed memory interface and its wide spread application area. The module integrates processor, RAM, flash and power supply at a size of 31x40mm! It is based at the high performance ADSP-BF548 from Analog Devices.

The Core- Module is designed for industrial usage (industrial temperature range). It addresses 64MByte DDR SDRAM via its 16bit wide DDR-RAM bus and has an onboard NOR-flash of 8MByte. The module offers two CAN-, two TWI-, three EPPI-and SPI-interfaces as well as a USB 2.0 OTG and a keypad interface.

Features

CPU	Analog Devices BF548 @ 533MHz	
RAM	32MByte SDRAM up to 133MHz	
FLASH	8MByte	
INTERFACES	CAN	2
	PPI	3 (EPPI)
	SD/SDIO	1
	SPI	3
	SPORT	3
	TWI/I²C	2
	UART	4
	USB 2.0	1 (OTG)
ADDITIONAL FEATURES	Single 3.3V supply voltage On-board core voltage regulator Low voltage reset circuit NAND Flash Interface Keypad Interface	
TEMP. RANGE	-40°C to +85°C	
VERSIONS	Connector	
DIMENSIONS	31x41mm	



Development Support

- » DEV-BF548-Lite Development Board
- » DEV-BF548DA-Lite Development Board
- » BLACKSheep® OS
- » uClinux Port available

Ordering Information

Order No.	Info
100-1241-1	CM-BF548-C-I-Q25S64F8 (CM-BF548)
100-1241-1-TR	CM-BF548-C-I-Q25S64F8 (CM-BF548) Tape Reel 50pcs

Applications

- » Multimedia
- » Home Audio/Video
- » Advance vehicle infotainment
- » Mobile communications
- » Security and access control systems
- » Industrial and Instrumentation

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