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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	TCM-BF537
Co-Processor	-
Speed	500MHz
Flash Size	8MB
RAM Size	32MB
Connector Type	Expansion 2 x 60
Size / Dimension	1.1" x 1.1" (28mm x 28mm)
Operating Temperature	-40°C ~ 85°C
Purchase URL	https://www.e-xfl.com/product-detail/bluetechnix/100-1225-1

TCM-BF537

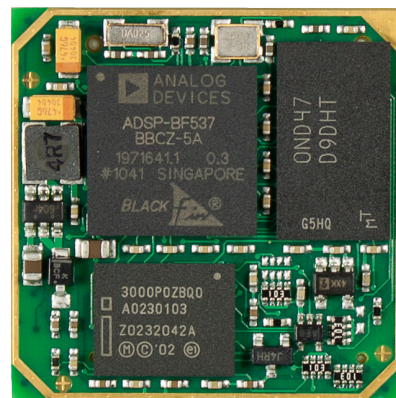
Blackfin® Core Module

The Tiny Core Module TCM-BF537 is optimized for performance and size. The module integrates processor, RAM, flash and power supply at a size of 28x28mm! It is based at the high performance ADSP-BF537 from Analog Devices. The Core-Module is designed for industrial usage (industrial temperature range). It addresses 32MByte SDRAM via its 16bit wide SDRAM bus and has an onboard NOR-flash of 8/64MByte.

Features

CPU	Analog Devices BF537 @ 500MHz	
RAM	32MByte SDRAM up to 133MHz	
FLASH*	8/64MByte	
INTERFACES	CAN	1
	ETHERNET	1x10/100 MBit Ethernet MII/RMII
	PPI	1
	SPI	1
	SPIPORT	1
	TWI/I²C	1
	UART	2
ADDITIONAL FEATURES	Single 3.3V supply voltage On-board core voltage regulator Low voltage reset circuit	
TEMP. RANGE	-40 to +85 °C	
VERSIONS*	Connector, Ball Grid Array, Border Pad	
DIMENSIONS	28x28mm	

* 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
100-1225-1	TCM-BF537-C-I-Q25S32F8 (TCM-BF537)
100-1226-1	TCM-BF537-B-I-Q25S32F8 (TCM-BF537BP)
100-1227-1	TCM-BF537-A-I-Q25S32F8 (TCM-BF537BGA)
100-1228-1	TCM-BF537-B-I-Q25S32F64 (TCM-BF537BP-64)

Applications

- » Robotics
- » Industrial distributed control
- » Industrial factory automation
- » Industrial handheld applications
- » Biometrics/security
- » Instrumentation
- » Medical appliances
- » Consumer appliances

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