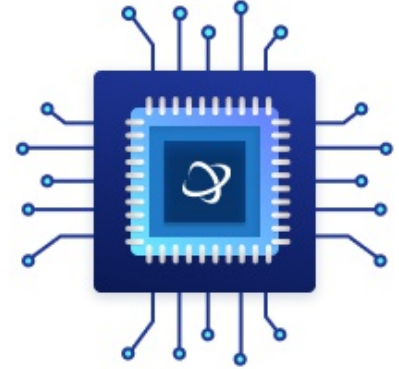


Digital Signal Processors & Controllers - DSP, DSC Low Cost sngl core BF+w/Large int l mem

Manufacturers	Analog Devices, Inc
Package/Case	184-LFB
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADSP-BF707BBCZ-4 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The processor offers performance up to 400 MHz, as well as lowest power consumption at <100mW. Produced with a low-power and low-voltage design methodology, they provide world-class power management and performance.

By integrating a rich set of industry-leading system peripherals, large on-chip memory & a high speed external memory interface, this Blackfin processor is the platform of choice for next-generation applications that require RISC-like programmability, multimedia support, and leading-edge signal processing in one integrated package. These applications span a wide array of markets, from automotive systems to embedded industrial, instrumentation, video/image analysis, biometric and control applications.

Features

Blackfin+ core with up to 400 MHz performance

Dual 16-bit or single 32-bit MAC support per cycle

16-bit complex MAC and many other instruction set enhancements

Instruction set compatible with previous Blackfin products

On-Chip Memory

136KB L1 SRAM with multi-parity-bit protection (64KB instruction, 64KB data, 8KB scratchpad)

1MByte on-chip L2 SRAM with ECC protection

512KByte On-chip L2 ROM

L3 interface providing 16-bit interface to DDR2 or LPDDR SDRAM devices (up to 200 MHz)

Key Peripherals include

USB2.0 HS OTG

2x CAN2.0B

ePPI Video I/O

2x SPORTs (w/I2S)

2xQuad-SPI / 1xDual-SPI (w/ Host mode option)

I2C

2xUART

SD/SDIO/MMC (8-bit)

4-ch 12-bit 1MSPS ADC

Security and one-time-programmable memory

Crypto hardware accelerators for fast secure boot/IP protection

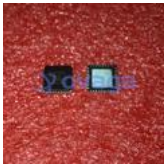
memDMA encryption/decryption for fast run-time security

Low-cost packaging

184-Ball CSP_BGA package (12 mm × 12mm × 0.8mm pitch), RoHS compliant

Low system power with < 100 mW at 400 MHz (< 0.25 mW/MHz) at 25°C TJUNCTION

Related Products



[ADUC7022BCPZ62](#)

Analog Devices, Inc
LFCSP-40



[ADUC7020BCPZ62](#)

Analog Devices, Inc
LFCSP-40



[ADUC841BSZ62-5](#)

Analog Devices, Inc
QFP-52



[ADUC841BSZ62-3](#)

Analog Devices, Inc
QFP-52



[ADUC831BSZ](#)

Analog Devices, Inc
QFP-52



[ADSP-BF527BBCZ-5A](#)

Analog Devices, Inc
BGA-208



[ADSP-21369BBPZ-2A](#)

Analog Devices, Inc
SBGA-256



[ADSP-BF561SBBCZ-5A](#)

Analog Devices, Inc
CSPBGA-256