

ADSP-BF533SBBC500

Data Sheet

Dsp fixed-point 16-bit 500mhz 500mips 160-pin csp-bga

Manufacturers	Analog Devices, Inc
Package/Case	BGA-160
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADSP-BF533SBBC500 or Email to us: sales@ovaga.com We will contact you in 12 hours.	<u>RFQ</u>

General Description

ADSP-BF533SBBC500 is a digital signal processor (DSP) chip from Analog Devices, Inc., a semiconductor company specializing in signal processing technology. The ADSP-BF533SBBC500 is a member of the Blackfin family of processors, which are designed for embedded systems and applications that require real-time signal processing.

Features

Application

Processor Core: The ADSP-BF533SBBC500 features a 16of up to 600 MHz.

Memory: It has 64 KBytes of internal SRAM and supports external memory interfaces including SDRAM, DDR, and flash memory.

Connectivity: The ADSP-BF533SBBC500 has various communication interfaces such as UART, SPI, I2C, and GPIO, which allow it to connect with other devices and peripherals.

Instruction Set Architecture: It supports a dual-instruction set architecture (ISA) consisting of both DSP and RISC instructions, making it versatile for a wide range of signal processing applications.

Multimedia Capabilities: The ADSP-BF533SBBC500 has built-in switches. hardware accelerators for video and audio processing, including support for video codecs, audio codecs, and image processing functions.

Audio and Speech Processing: The ADSP-BF533SBBC500 is widely used in bit/32-bit dual-core fixed-point DSP processor with a performance applications that require audio and speech processing, such as audio codecs, speech recognition, voice-over-IP (VoIP) systems, and audio effects processing.

> Video Processing: It can be used in video processing applications, such as video codecs, video surveillance, and video analytics.

Industrial Control and Automation: The ADSP-BF533SBBC500 can be used in industrial control and automation systems, such as motor control, robotics, and process control.

Medical Devices: It can be used in medical devices, such as medical imaging systems, patient monitoring, and biomedical signal processing.

Communications: The ADSP-BF533SBBC500 can be used in communication systems, such as moderns, wireless base stations, and network





Related Products



ADUC7022BCPZ62 Analog Devices, Inc

LFCSP-40



ADUC841BSZ62-5 Analog Devices, Inc QFP-52







ADSP-21369BBPZ-2A Analog Devices, Inc SBGA-256





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ADSP-BF527BBCZ-5A

Analog Devices, Inc BGA-208

ADSP-BF561SBBCZ-5A Analog Devices, Inc CSPBGA-256



ADUC7020BCPZ62

Analog Devices, Inc LFCSP-40

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