

16-bit, 75 MIPS, 2.5v, 2 serial ports, host port, 80 KB RAM; Package: 100 ld LQFP; No of Pins: 100; Temperature Range: Comm

Manufacturers	<u>Analog Devices, Inc</u>
Package/Case	LQFP-100
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADSP-2185MKSTZ-300 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADSP-2185M is a single-chip microcomputer optimized for digital signal processing (DSP) and other high speed numeric processing applications.

The ADSP-2185M combines the ADSP-2100 family base architecture (three computational units, data address generators and a program sequencer) with two serial ports, a 16-bit internal DMA port, a byteDMA port, a programmable timer, Flag I/O, extensive interrupt capabilities, and on-chip program and data memory.

The ADSP-2185M integrates 80K bytes of on-chip memory configured as 16K words (24-bit) of program RAM, and 16K words (16-bit) of data RAM. Power down circuitry is also provided to meet the low power needs of battery operated portable equipment. The ADSP-2185M is available in 100-pin LQFP package.

## Features

13.3 ns Instruction Cycle Time @ 2.5 V (Internal), 75 MIPS Sustained Performance

Single-Cycle Instruction Execution

3-Bus Architecture Allows Dual Operand Fetches in Every Instruction Cycle

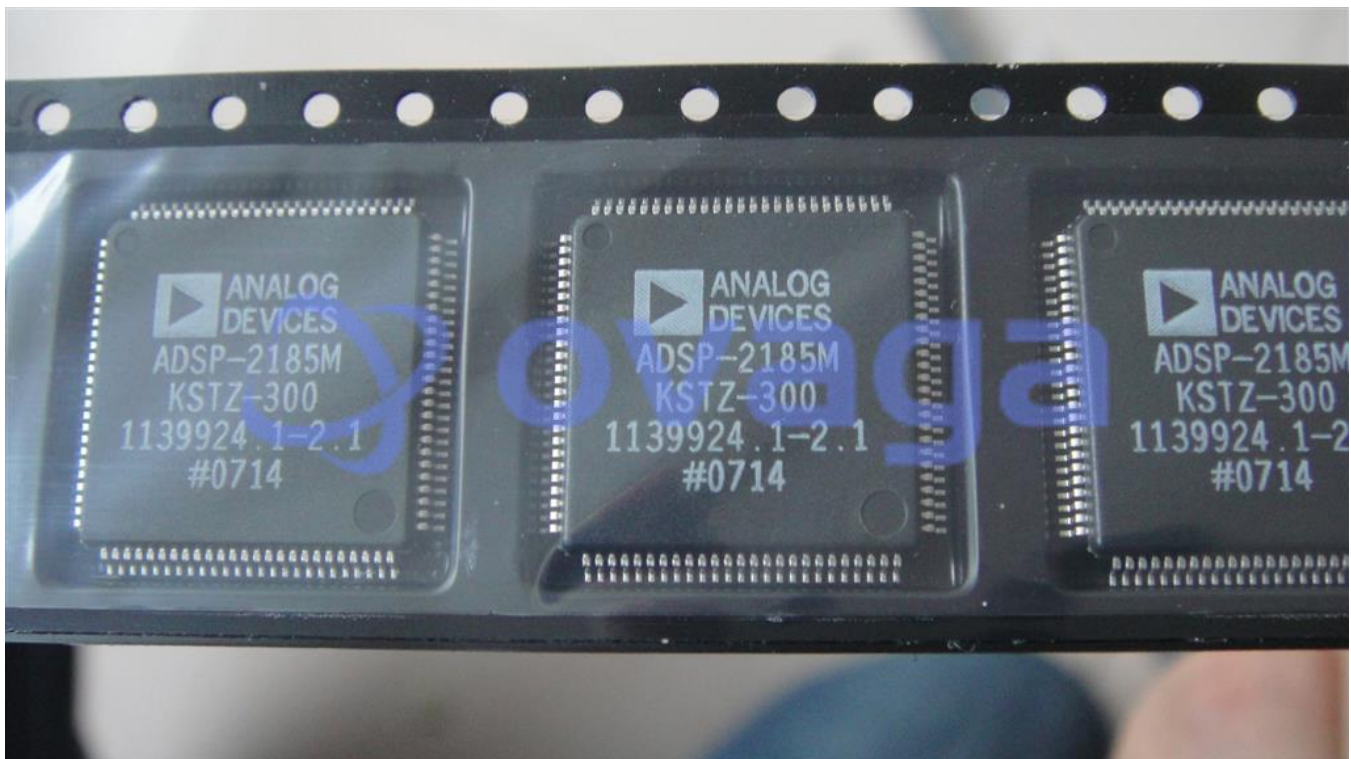
ADSP-2100 Family Code Compatible (Easy to Use Algebraic Syntax), with Instruction Set Extensions

Single-Cycle Context Switch

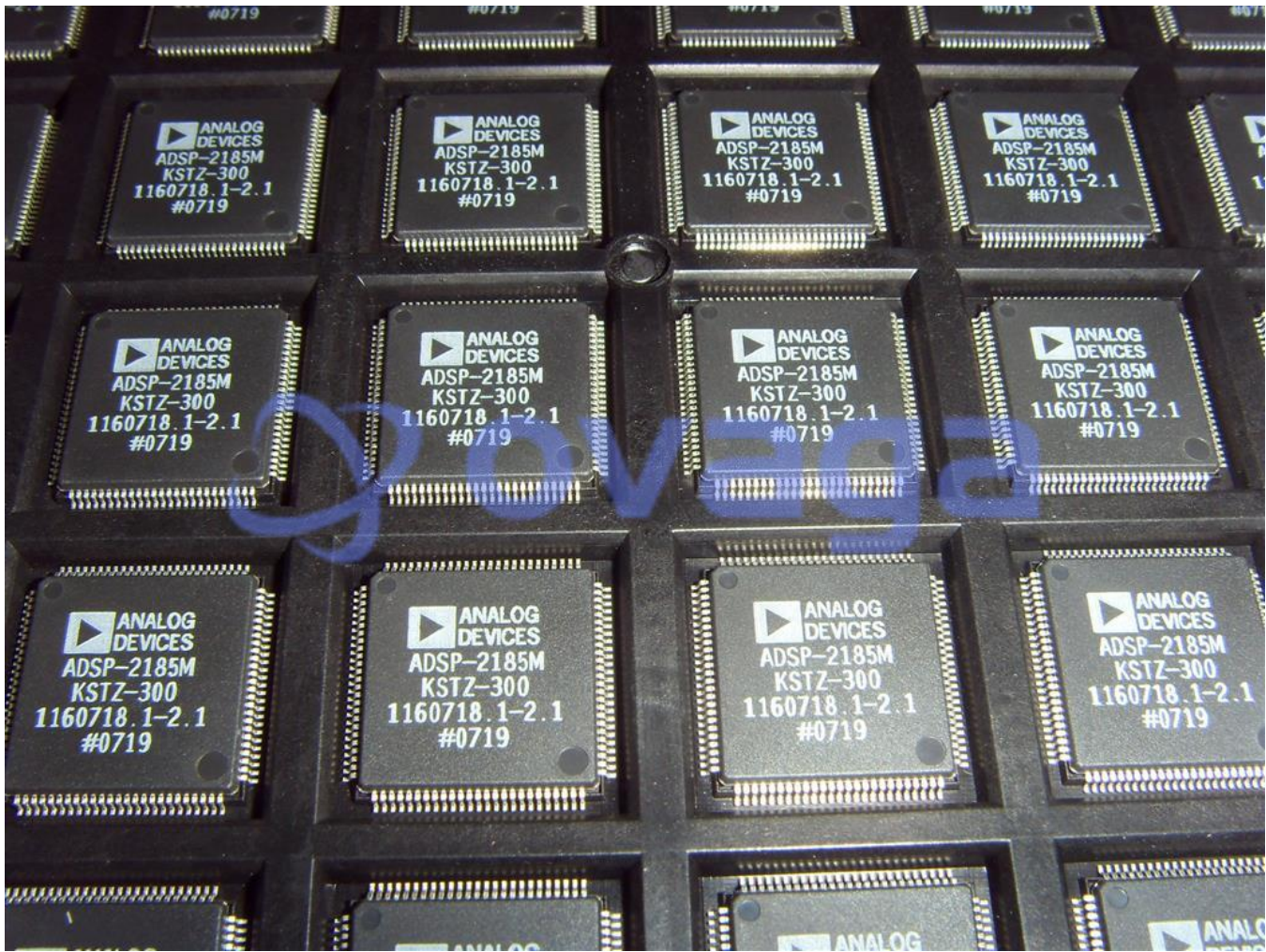
80K Bytes of On-Chip RAM, Configured as 16K Words Program Memory RAM and 16K Words Data Memory RAM

Dual-Purpose Program Memory for Both Instruction and Data Storage

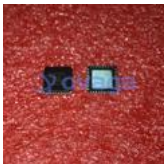
Independent ALU, Multiplier/Accumulator, and Barrel Shifter Computational Units







## 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