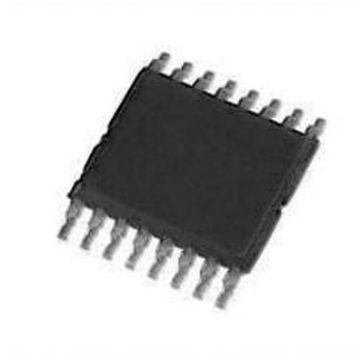


Analogue to Digital Converter, 16 bit, 500 SPS, Differential, SPI, Single, 2.7 V

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	TSSOP-16
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD7705BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD7705 and AD7706 are complete 16-bit, low-cost, Sigma Delta ADCs intended for dc and low-frequency ac measurement applications. Their low power (1 mW max @ 3 V) allows them to be used in loop-powered, battery-powered or locally-powered applications. The on-chip Programmable Gain Amplifier with gain settings from 1 through 128 can accommodate both low-level and high-level analog inputs with no external signal conditioning hardware.

The AD7705 has two differential channels while the AD7706 has one differential and two pseudo-differential channels. Differential reference inputs also allow maximum flexibility in tailoring the device for use in ratiometric applications.

## Features

Two Fully Differential Input Channel ADCs

Programmable Gain Front End Gains from 1 to 128

Three-Wire Serial Interface SPI®, QSPI™, MICROWIRE™ and DSP Compatible Schmitt Trigger Input on SCLK

Ability to Buffer the Analog Input

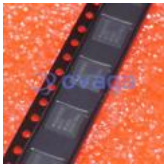
2.7 V to 3.3 V or 4.75 V to 5.25 V Operation

Power Dissipation 1 mW max @ 3 V

Standby Current 8 µA max

16-Lead DIP, 16-Lead SOIC and TSSOP Packages

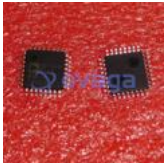
## Related Products



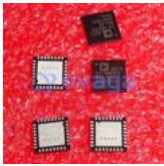
[ADAS3022BCPZ](#)  
Analog Devices, Inc  
LFCSP-40



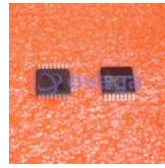
[AD574AJNZ](#)  
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PDIP-28



[AD7938BSUZ](#)  
Analog Devices, Inc  
TQFP-32



[AD7124-8BCPZ-RL7](#)  
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[AD7401YRWZ](#)  
Analog Devices, Inc  
SOIC-16



[AD7192BRUZ-REEL](#)  
Analog Devices, Inc  
TSSOP-24



[AD9680BCPZ-500](#)  
Analog Devices, Inc  
LFCSP-64