

Analogue to Digital Converter, Dual, 12 bit, 1 MSPS, Single Ended, Serial, Single, 2.7 V

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-20
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7866BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7866 is a dual 12-bit high-speed, low power, successive-approximation ADC. The part operates from a single 2.7 V to 5.25 V power supply and features throughput rates up to 1 MSPS. The device contains two ADCs, each preceded by a low-noise, wide bandwidth track/hold amplifier, which can handle input frequencies in excess of 10 MHz.

The conversion process and data acquisition are controlled using standard control inputs allowing easy interfacing to microprocessors or DSPs. The input signal is sampled on the falling edge of CS and conversion is also initiated at this point. The conversion time is determined by the SCLK frequency. There are no pipelined delays with the part.

The AD7866 uses advanced design techniques to achieve very low power dissipation at high throughput rates. With 3 V supplies and 1 MSPS throughput rate, the part consumes a maximum of 3.8 mA. With 5 V supplies and 1 MSPS, the current consumption is a maximum of 4.8 mA. The part also offers flexible power/throughput rate management when operating in sleep mode.

Features

Dual 12-Bit, 2-Channel ADC

Fast Throughput Rate 1 MSPS

Specified for VDD of 2.7 V to 5.25 V

Low Power: 11.4 mW Max at 1 MSPS with 3 V Supplies 24 mW Max at 1 MSPS with 5 V Supplies

Wide Input Bandwidth 70 dB SNR at 300 kHz Input Frequency

Onboard Reference 2.5 V

Flexible Power/Throughput Rate Management

Simultaneous Conversion/Read

No Pipeline Delays

High-Speed Serial Interface SPI®/QSPI™/ MICROWIRE™/DSP Compatible

Shut-Down Mode: μ A Max

20-Lead TSSOP Package

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



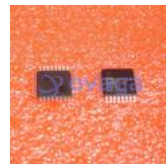
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64