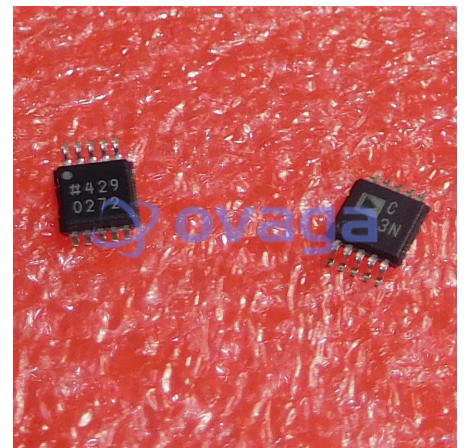


500 kSPS 16-BIT PulSAR® A/D Converter in MSOP/QFN; Package: MSOP; No of Pins: 10; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-10
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7686BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Power dissipation scales linearly with throughput.

The SPI-compatible serial interface also features the ability, using the SDI input, to daisy-chain several ADCs on a single, 3-wire bus or provides an optional busy indicator. This device is compatible with 1.8 V, 2.5 V, 3 V, or 5 V logic, using the separate supply VIO.

The AD7686 is housed in a 10-lead MSOP or a 10-lead QFN (LFCSP) with operation specified from -40°C to $+85^{\circ}\text{C}$.

Features

16-bit resolution with no missing codes

Throughput: 500 kSPS

INL: ± 0.6 LSB typical, ± 2 LSB maximum ($\pm 0.003\%$ of FSR)

SINAD: 92.5 dB @ 20 kHz

THD: -110 dB @ 20 kHz

Pseudo differential analog input range 0 V to VREF with VREF up to VDD

No pipeline delay

Single-supply 5 V operation with 1.8 V/2.5 V/3 V/5 V logic interface

Serial interface SPI®-/QSPI™-/MICROWIRE™-/DSP-compatible

Daisy-chain multiple ADCs and busy indicator

Powerdissipation 3.75 μ W @ 5 V/100 SPS 3.75 mW @ 5 V/100 kSPS

Standby current: 1 nA

Application

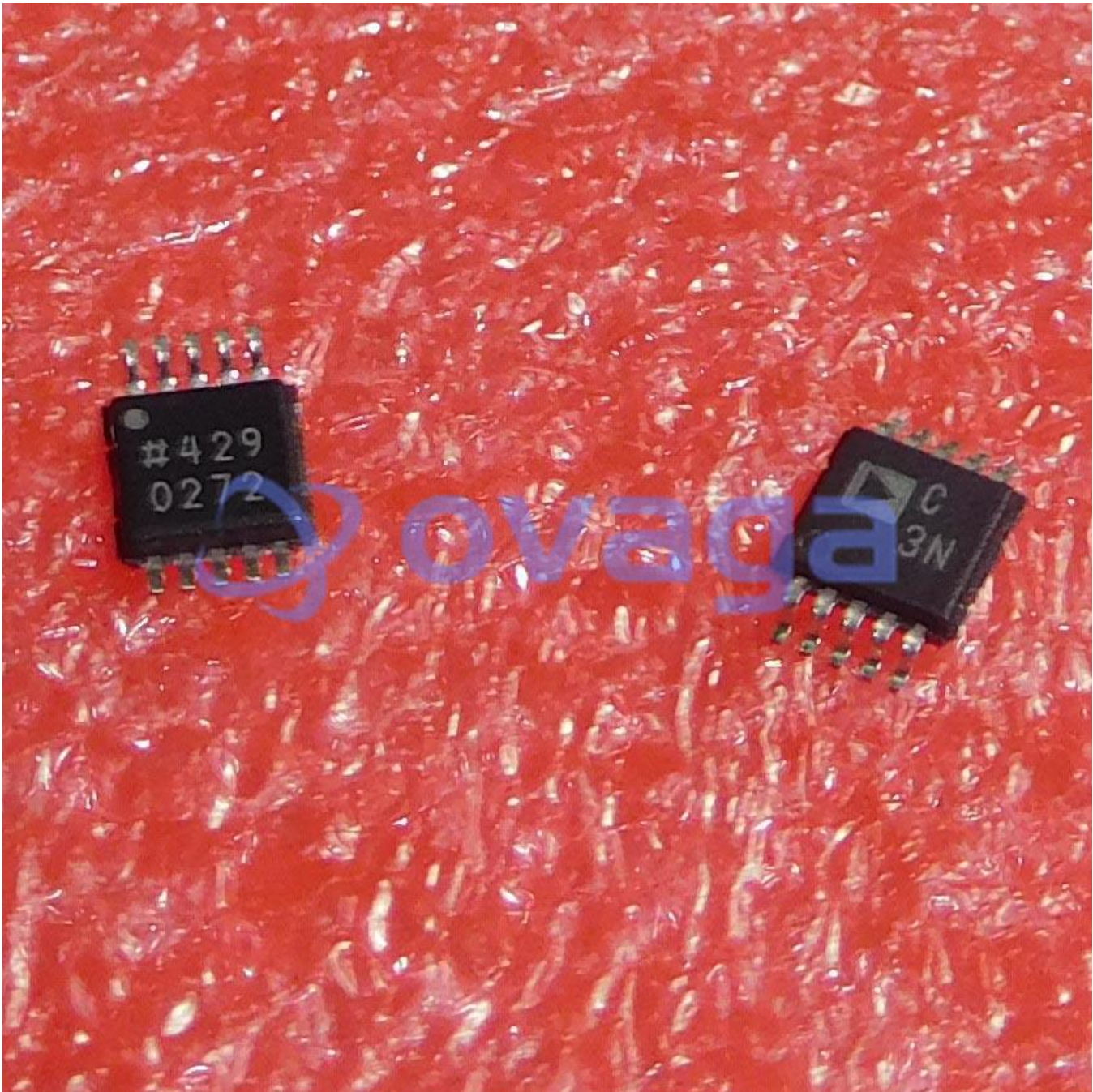
Battery-powered equipment

Data acquisitions

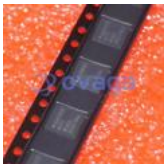
Instrumentation

Medical instruments

Process controls

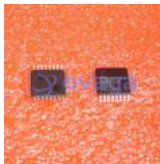


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



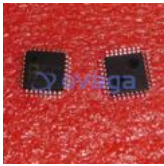
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64