

Analogue to Digital Converter, 10 bit, 40 MSPS, Differential, Single Ended, Parallel, Single, 2.7 V

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP28
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD9203ARUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD9203 is a monolithic low power, single supply, 10-bit, 40 MSPS analog-to-digital converter with an on-chip voltage reference. It uses a multistage differential pipeline architecture at 40 MSPS data rate and guarantees no missing codes over the full operating temperature range. Its input range may be adjusted between 1 V and 2 V p-p.

The ADC has an on-board programmable reference. An external reference can also be chosen to suit the DC accuracy and temperature drift requirements of an application. An external resistor can be used to reduce power consumption when operating at lower sampling rates.

A single clock input is used to control all internal conversion cycles. The digital output data is presented in straight binary or two's complement output format. An out-of-range signal (OTR) indicates an over-flow condition that can be used with the most significant bit to determine over-flow or under-flow. The AD9203 can operate with a supply range from 2.7 V to 3.6 V, attractive for low power operation in high-speed portable applications.

Fabricated on an advanced CMOS process, the AD9203 is available in a 28-pin thin shrink small outline package (28 TSSOP) specified over the industrial temperature range (-40°C to +85°C).

Features

Power Dissipation: 74 mW (3 V Supply, 40 MSPS)

ENOB: 9.5 at>

Operation Between 2.7 V to 3.6 V Supply

Input Range: 1 to 2 V p-p differential or single-ended

Differential Linearity: ± 0.25 LSB

Adjustable On-Chip Voltage Reference

Power-Down (Standby) Mode, 0.65 mW

Adjustable Power Consumption

IF Under-Sampling Beyond 130 MHz

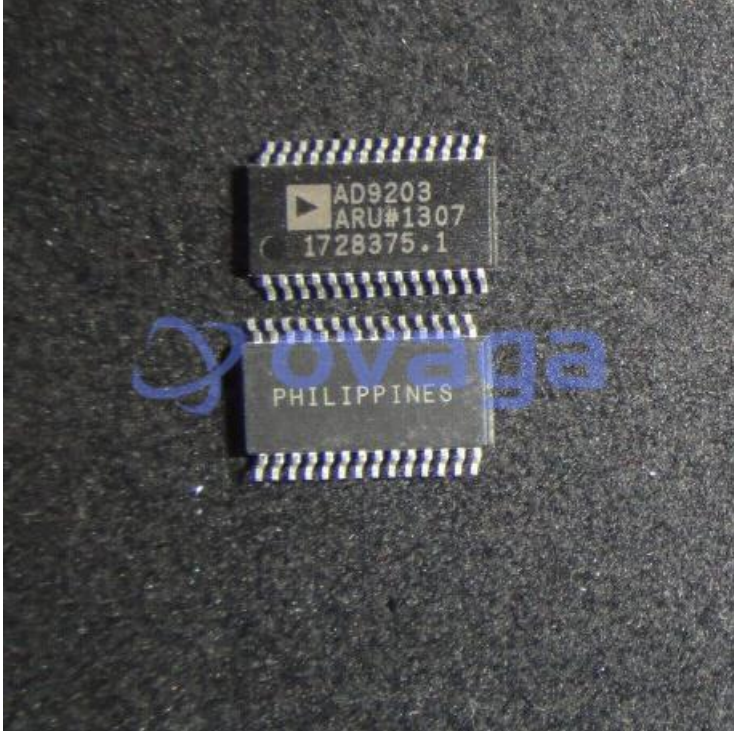
Out of Range Indicator

Two's Complement or Straight

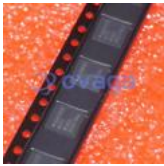
Binary Output

Internal Clamp Circuit

Qualified for automotive applications

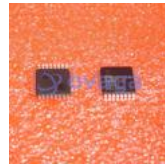


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

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TQFP-32



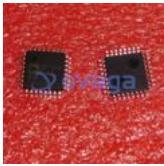
[AD574AJNZ](#)

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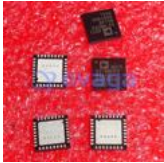
[AD7938BSUZ](#)

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[AD9680BCPZ-500](#)

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