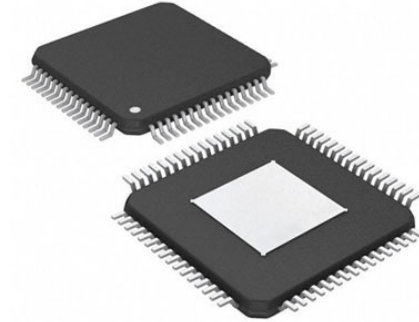


Radar Receive Path AFE - 4-Channel Mux

Manufacturers	Analog Devices, Inc
Package/Case	TQFP64
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8284WCSVZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8284 is an integrated analog front end designed for low cost, compact size, flexibility, and ease of use. It contains a 4-channel differential multiplexer (mux), a 1-channel low noise preamplifier (LNA) with a programmable gain amplifier (PGA) and an antialiasing filter (AAF), as well as one direct-to-ADC channel, all integrated with a single, 12-bit analog-to-digital converter (ADC). The AD8284 also incorporates a saturation detection circuit for high frequency overvoltage conditions that would otherwise be filtered by the AAF.

The analog channel features a gain range of 17 dB to 35 dB in 6 dB increments, and an ADC with a conversion rate of up to 60 MSPS. The combined input referred voltage noise of the entire channel is 3.5 nV/√Hz at maximum gain. The channel is optimized for dynamic performance and low power in applications where a small package size is critical.

Fabricated in an advanced CMOS process, the AD8284 is available in a 10 mm × 10 mm, RoHS compliant, 64-lead TQFP. It is specified over the automotive temperature range of -40°C to +105°C.

APPLICATIONS

Automotive radar

Adaptive cruise control Collision avoidance Blind spot detection Self-parking Electronic bumper

Features

4 channel mux to LNA, PGA, AAF

1 direct-to-ADC channel

Programmable gain amplifier (PGA)

Includes low noise preamplifier (LNA)

SPI-programmable>

Antialiasing filter (AAF)

Programmable third-order low-pass elliptic filter (LPF) from 9 MHz to 15 MHz

Analog-to-digital converter (ADC)

12 bits of accuracy up to 60>

See data sheet for additional features

Application

Automotive radar

Related Products



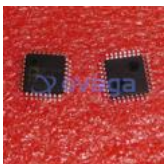
[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



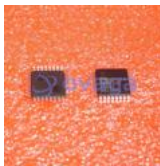
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64