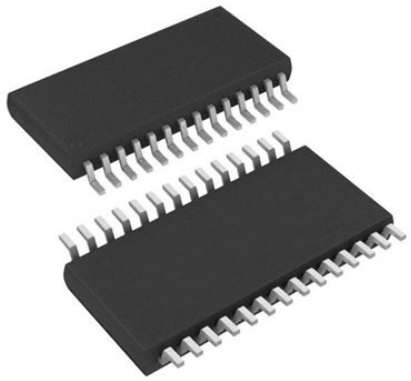
AD7490BRUZ-REEL7

Data Sheet

Analog to Digital Converters - ADC 12-BIT 16CH IC w/ Sequencer

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-28
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7490BRUZ-REEL7 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The conversion process and data acquisition are controlled using CS and the serial clock, allowing the device to interface with microprocessors or DSPs. The input signal is sampled on the falling edge of CS and conversion is also initiated at this point. There are no pipeline delays associated with the part.

The AD7490 uses advanced design techniques to achieve very low power dissipation at high throughput rates. For maximum throughput rates, the AD7490 consumes just 1.8 mA with 3 V supplies, and 2.5 mA with 5 V supplies.By setting the relevant bits in the control register, the analog input range for the part can be selected to be a 0 V to REFIN input or a 0 V to 2 × REFIN input, with either straight binary or twos complement output coding. The AD7490 features 16 single-ended analog inputs with a channel sequencer to allow a preprogrammed selection of channels to be converted sequen-tially. The conversion time is determined by the SCLK or twos complement output coding. The AD7490 features 16 single-ended analog inputs with a channel sequencer to allow a preprogrammed selection of channels to be converted sequen-tially. The conversion time is determined by the SCLK.

The AD7490-EP supports defense and aerospace applications (AQEC)

Features

Fast throughput rate: 1 MSPS

Specified for VDD of 2.7 V-5.25 V

Low power at maximum throughput rates

5.4 mW maximum at 870 kSPS with 3 V supplies

12.5 mW maximum at 1 MSPS with 5 V supplies

16 (single-ended) inputs with sequencer

Wide input bandwidth 69.5 dB SNR at 50 kHz input frequency

See data sheet for additional features

AD7490-EP supports defense and aerospace applications (AQEC standard)

Download(pdf)

Military temperature range (−55°C to +125°C)

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

V62/12635 DSCC Drawing Number

Application

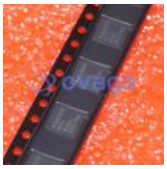
Multichannel system monitoring

Battery-powered equipment

Power line monitoring

Data acquisition, instrumentation, and process control

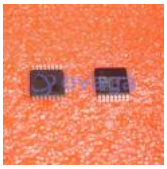
Related Products



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