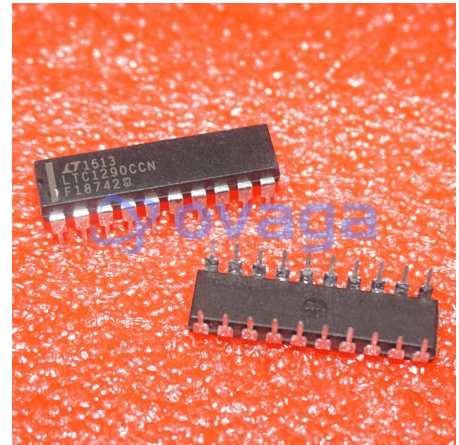


8-Channel Single ADC SAR 50ksps 12-bit Serial 20-Pin PDIP N Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DIP8
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1290CCN#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC1290 is a data acquisition component which contains a serial I/O successive approximation A/D converter. It uses LTCMOS™ switched capacitor technology to perform either 12-bit unipolar or 11-bit plus sign bipolar A/D conversions. The 8-channel input multiplexer can be configured for either single-ended or differential inputs (or combinations thereof). An on-chip sample-and-hold is included for all single-ended input channels. When the LTC1290 is idle it can be powered down with a serial word in applications where low power consumption is desired.

The serial I/O is designed to be compatible with industry standard full duplex serial interfaces. It allows either MSB- or LSB-first data and automatically provides 2's complement output coding in the bipolar mode. The output data word can be programmed for a length of 8, 12 or 16 bits. This allows easy interface to shift registers and a variety of processors.

## Features

Software Programmable Features

Unipolar/Bipolar Conversion

Four Differential/Eight Single-Ended Inputs

MSB- or LSB- First Data Sequence

Variable Data Word Length

Power Shutdown

Built-In Sample-and-Hold

Single Supply 5V or  $\pm 5V$  Operation

Direct Four-Wire Interface to Most MPU Serial Ports and All MPU Parallel Ports

50kHz Maximum Throughput Rate

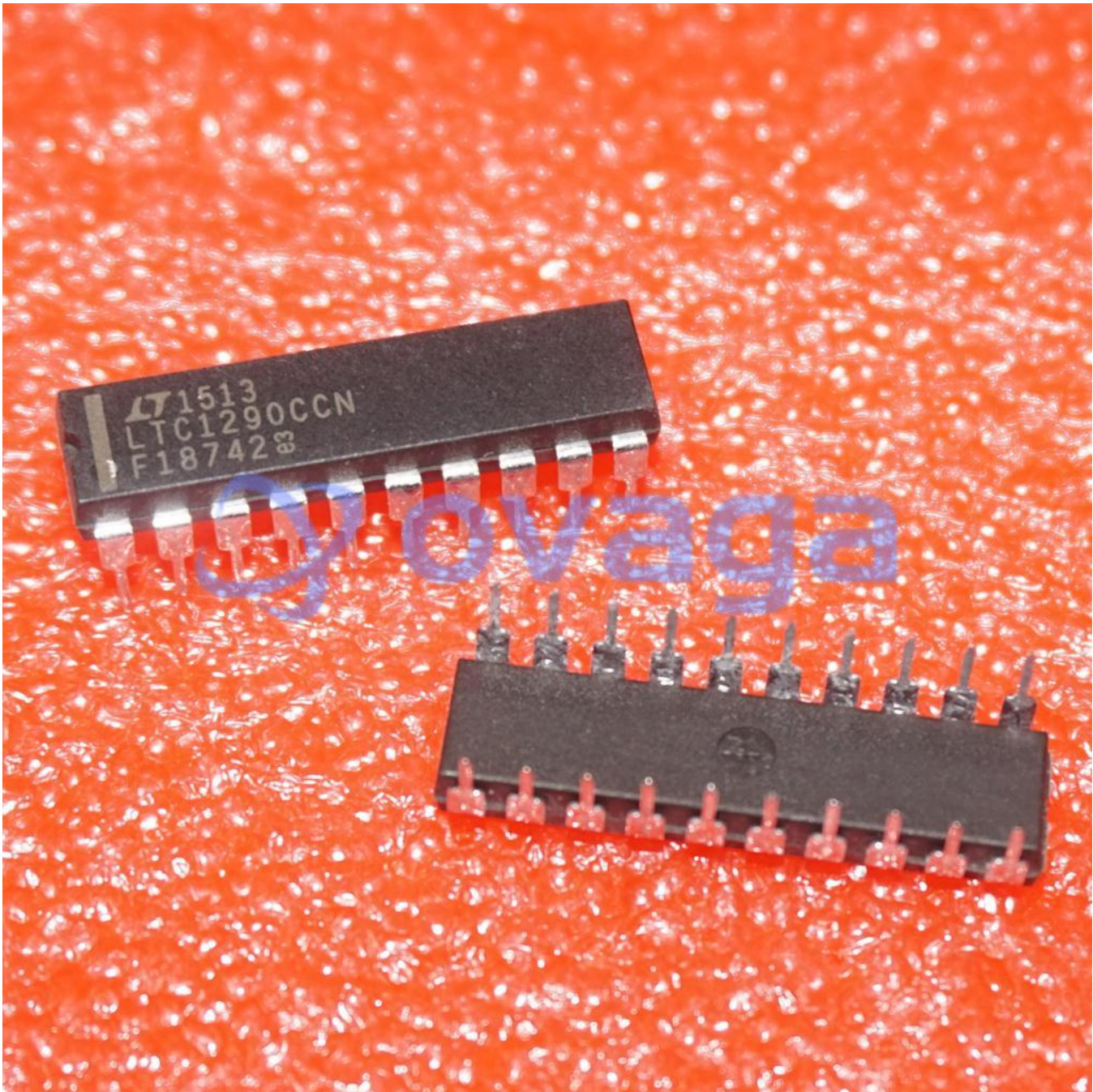
Available in 20-Lead PDIP and SO Wide Packages

## Application

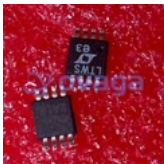
Resolution: 12 Bits

Fast Conversion Time: 13 $\mu$ s Max Over Temp

Low Supply Current: 6.0mA



### Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc  
MSOP-8



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc  
QFN-32



[LT1171CQ](#)

Analog Devices, Inc  
TO-263



[LTC2600CGN#PBF](#)

Analog Devices, Inc  
SSOP16



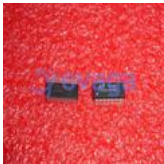
[LTC2485IDD#PBF](#)

Analog Devices, Inc  
DFN-10



[LTC2642CMS-16#PBF](#)

Analog Devices, Inc  
10MSOP



[LTC2418IGN#PBF](#)

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SSOP28



[LTC1865AIMS#PBF](#)

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MSOP-1