

Ic data acq system 12bit 8-dip

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	8-DIP
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1292DCN8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC1292/LTC1297 are data acquisition systems that contain a 12-bit, switched-capacitor successive approximation A/D, a differential input, sample-and-hold on the (+) input, and serial I/O. When the LTC1297 is idle between conversions it automatically powers down reducing the supply current to 5 $\mu$ A, typically. The LTC1292 is capable of digitizing signals at a 60kHz rate and with the device's excellent AC characteristics, it can be used for DSP applications. All these features are packaged in an 8-pin DIP and are made possible using LTCMOS™ switched-capacitor technology.

The serial I/O is designed to communicate without external hardware to most MPU serial ports and all MPU parallel I/O ports allowing data to be transmitted over three wires. Because of their accuracy, ease of use and small package size these devices are well suited for digitizing analog signals in remote applications where minimum number of interconnects and power consumption are important.

## Features

Single Supply 5V Operation

Power Shutdown After Each Conversion (LTC1297)

Built-In Sample-and-Hold

60kHz Maximum Throughput Rate (LTC1292)

Direct 3-Wire Interface to Most MPU Serial Ports and All MPU Parallel Ports

Analog Inputs Common Mode to Supply Rails

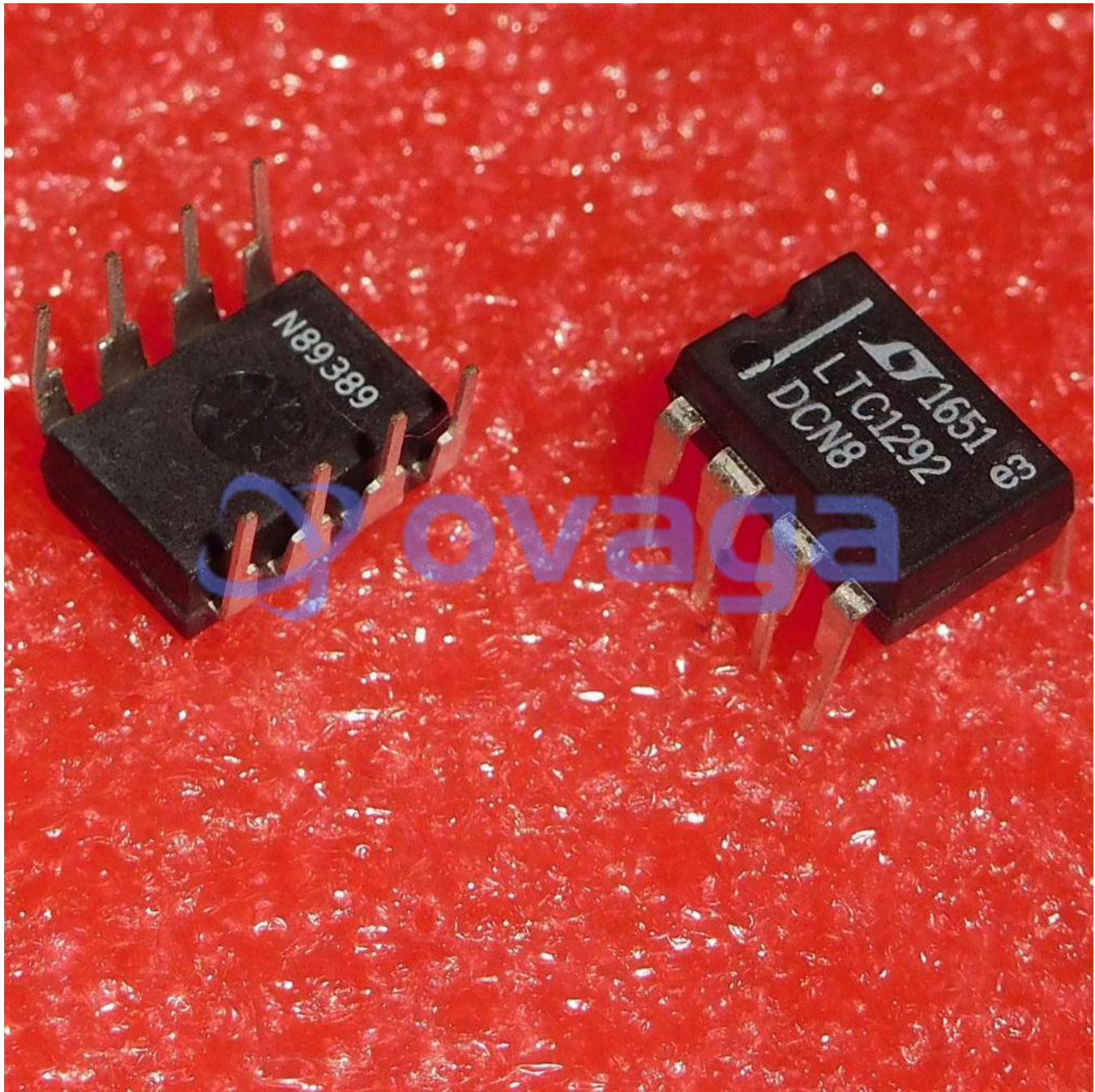
## Application

Resolution: 12 Bits

Fast Conversion Time: 12 $\mu$ s Max Over Temp

Low Supply Current: 6.0mA

Shutdown Supply Current: 5 $\mu$ A (LTC1297)



### 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](#)

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SSOP16



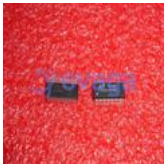
[LTC2485IDD#PBF](#)

Analog Devices, Inc  
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[LTC2642CMS-16#PBF](#)

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