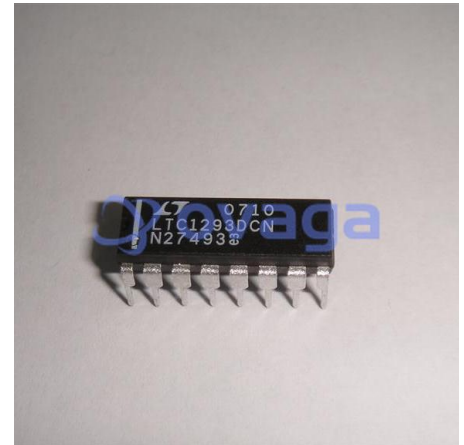


Analogue to Digital Converter, 12 bit, 46.5 kSPS, Differential, Single Ended, Serial, Single

Manufacturers	Analog Devices, Inc
Package/Case	16-DIP
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1293DCN#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1293/4/6 is a family of data acquisition systems which contain 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 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 LTC1293/4/6 is idle it can be powered down in applications where low power consumption is desired. The LTC1296 includes a System Shutdown Output pin which can be used to power down external circuitry, such as signal conditioning circuitry prior to the input mux.

The serial I/O is designed to communicate without external hardware to most MPU serial ports and all MPU parallel I/O ports allowing up to eight channels of data to be transmitted over as few as three wires.

Features

Software Programmable Features:

Unipolar/Bipolar Conversion

Differential/Single Ended Inputs

MSB-First or MSB/LSB Data

Built-In Sample and Hold

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

Direct 4-Wire Interface to Most MPU Serial Ports and All MPU Parallel Ports

46.5kHz Maximum Throughput Rate

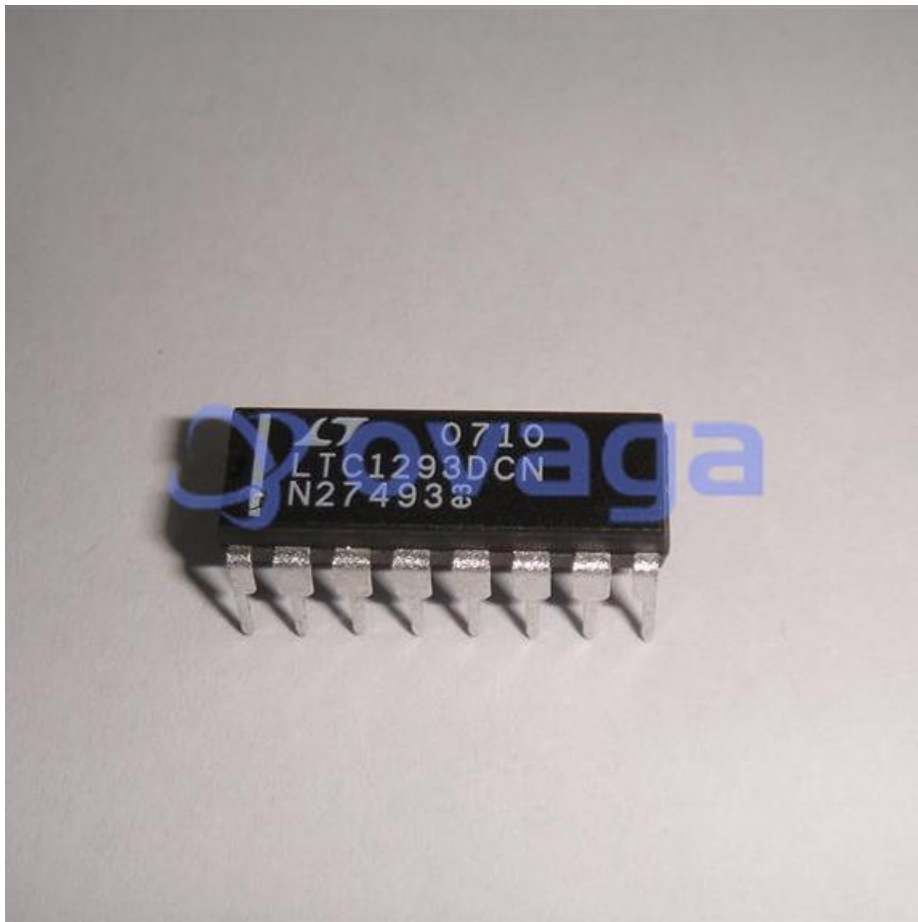
System Shutdown Output (LTC1296)

Application

Resolution: 12 Bits

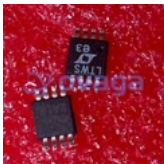
Fast Conversion Time: 12 μ s Max Over Temp

Low Supply Current: 6.0mA





Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



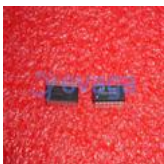
[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2418IGN#PBF](#)

Analog Devices, Inc
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