

DIGITAL TO ANALOG CONVERTER DAC, 12 BIT Resolution (Bits):12bit, Sampling Rate:-, Input Channel Type:Serial, Supply Voltage Range:2.7V to 5.5V

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



Images are for reference only

Please submit RFQ for LTC1453IS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC1451/LTC1452/LTC1453 are complete single supply, rail-to-rail voltage output 12-bit digital-to-analog converters (DACs) in an SO-8 package. They include an output buffer amplifier and an easy-to-use 3-wire cascadable serial interface. The LTC1451 has an onboard reference of 2.048V and a full-scale output of 4.095V. It operates from a single 4.5V to 5.5V supply.

The LTC1452 is a multiplying DAC with a full-scale output of twice the reference input voltage. It operates from a single supply of 2.7V to 5.5V.

The LTC1453 has an onboard 1.22V reference and a full-scale output of 2.5V. It operates from a single supply of 2.7V to 5.5V.

The low power supply current makes the LTC1451 family ideal for battery-powered applications. The space saving 8-pin SO package and operation with no external components provide the smallest 12-bit DAC system available.

## Features

12-Bit Resolution

Buffered True Rail-to-Rail Voltage Output

3V Operation (LTC1453), ICC: 250 $\mu$ A Typ

5V Operation (LTC1451), ICC: 400 $\mu$ A Typ

3V to 5V Operation (LTC1452), ICC: 225 $\mu$ A Typ

Built-In Reference:

2.048V (LTC1451)

1.220V (LTC1453)

Multiplying Version (LTC1452)

Power-On Reset

SO-8 Package

3 wire Cascadable Serial Interface

Maximum DNL Error: 0.5LSB

Schmitt Trigger on Clock Input Allows Direct Optocoupler Interface

## Application

Digital Calibration

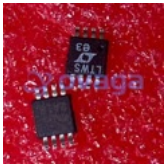
Industrial Process Control

Automatic Test Equipment

Cellular Telephones



## Related Products



### [LTC1860IMS8#PBF](#)

Analog Devices, Inc  
MSOP-8



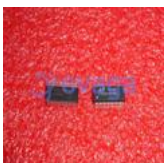
### [LT1171CQ](#)

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### [LTC2485IDD#PBF](#)

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