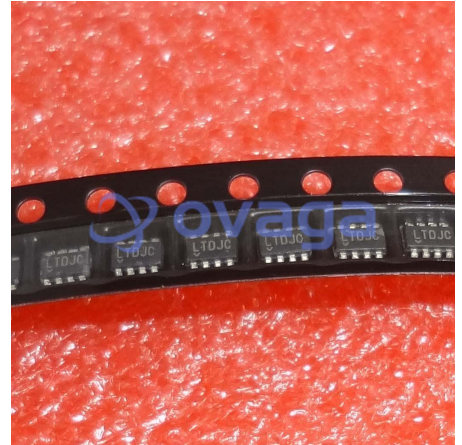


Digital to Analog Converters - DAC 10-Bit SPI DAC (4.096V ref, Reset to Mid-Scale)

Manufacturers	Analog Devices, Inc
Package/Case	SOT-23
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2640HTS8-HM10#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours. [RFQ](#)

General Description

The LTC2640 is a family of 12-, 10-, and 8-bit voltage-output DACs with an integrated, high-accuracy, low-drift reference in an 8-lead TSOT-23 package. It has a rail-to-rail output buffer that is guaranteed monotonic.

The LTC2640-L has a full-scale output of 2.5V, and operates from a single 2.7V to 5.5V supply. The LTC2640-H has a full-scale output of 4.096V, and operates from a 4.5V to 5.5V supply. A 10ppm/°C reference output is available at the REF pin.

Each DAC can also operate in External Reference mode, in which a voltage supplied to the REF pin sets the fullscale output.

The LTC2640 DACs use a SPI/MICROWIRE™ compatible 3-wire serial interface which operates at clock rates up to 50MHz.

The LTC2640 incorporates a power-on reset circuit. Options are available for Reset to Zero-Scale or Reset to Mid-Scale after power-up.

Applications

Features

Integrated Precision Reference

2.5V Full-Scale 10ppm/°C (LTC2640-L)

4.096V Full-Scale 10ppm/°C (LTC2640-H)

Maximum INL Error: 1LSB (LTC2640A-12)

Bidirectional Reference: Input or 10ppm/°C Output

Low Noise (0.7mVpp, 0.1Hz to 200kHz)

Guaranteed Monotonic Over Temperature

2.7V to 5.5V Supply Range (LTC2640-L)

Low Power Operation: 180µA at 3V

Power Down to 1.8µA Maximum (C and I Grades)

Asynchronous DAC Clear Pin (LTC2640-Z)

Power-On Reset to Zero or Mid-Scale options

Double-Buffered Data Latches

Guaranteed Operation from -40°C to 125°C (H-Grade)

8-Lead TSOT-23 (ThinSOT)

2.5V Full-Scale 10ppm/°C (LTC2640-L)

4.096V Full-Scale 10ppm/°C (LTC2640-H)

Application

Mobile Communications

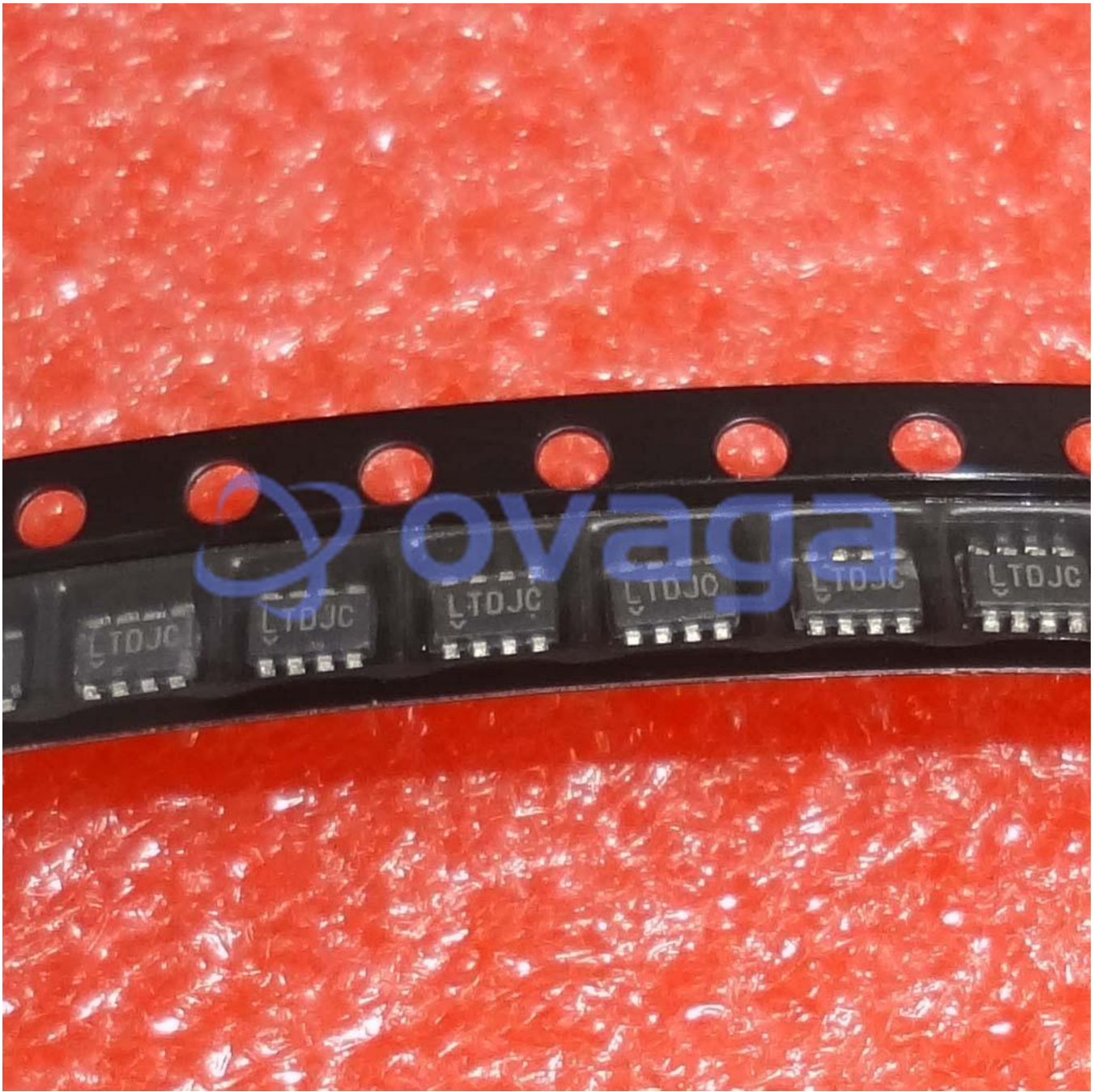
Process Control and Industrial Automation

Automatic Test Equipment

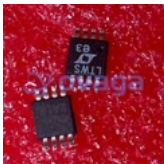
Portable Equipment

Automotive

Optical Networking



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



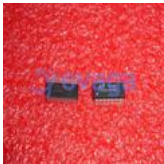
[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2642CMS-16#PBF](#)

Analog Devices, Inc
10MSOP



[LTC2418IGN#PBF](#)

Analog Devices, Inc
SSOP28



[LTC1865AIMS#PBF](#)

Analog Devices, Inc
MSOP-1