

IC A/D CONV 12BIT SRL 8CH 24SSOP

Manufacturers	Analog Devices, Inc
Package/Case	SSOP24
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1598CG#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1594/LTC1598 are micropower, 12-bit sampling A/D converters that feature 4- and 8-channel multiplexers, respectively. They typically draw only 320 μ A of supply current when converting and automatically power down to a typical supply current of 1nA between conversions. The LTC1594 is available in a 16-pin SO package and the LTC1598 is packaged in a 24-pin SSOP. Both operate on a 5V supply. The 12-bit, switched-capacitor, successive approximation ADCs include a sample-and-hold.

On-chip serial ports allow efficient data transfer to a wide range of microprocessors and microcontrollers over three or four wires. This, coupled with micropower consumption, makes remote location possible and facilitates transmitting data through isolation barriers.

The circuit can be used in ratiometric applications or with an external reference. The high impedance analog inputs and the ability to operate with reduced spans (to 1.5V full scale) allow direct connection to sensors and transducers in many applications, eliminating the need for gain stages.

Features

12-Bit Resolution

Auto Shutdown to 1nA

Low Supply Current: 320 μ A

Guaranteed $\pm 3/4$ LSB Max DNL

Single Supply 5V Operation (3V Versions Available: LTC1594L/LTC1598L)

Multiplexer:

4-Channel MUX (LTC1594)

8-Channel MUX (LTC1598)

Separate MUX Output and ADC Input Pins

MUX and ADC May Be Controlled Separately

Sampling Rate: 16.8ksps

I/O Compatible with QSPI, SPI, and MICROWIRE™, etc.

Small Package:

16-Pin Narrow SO (LTC1594)

24-Pin SSOP (LTC1598)

Application

Pen Screen Digitizing

Battery-Operated Systems

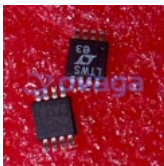
Remote Data Acquisition

Isolated Data Acquisition

Battery Monitoring

Temperature Measurement

Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc
QFN-32



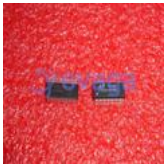
[LTC2600CGN#PBF](#)

Analog Devices, Inc
SSOP16



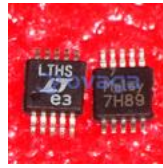
[LTC2642CMS-16#PBF](#)

Analog Devices, Inc
10MSOP



[LTC2418IGN#PBF](#)

Analog Devices, Inc
SSOP28



[LTC1865AIMS#PBF](#)

Analog Devices, Inc
MSOP-1