

16-Bit, 130Msps ADC; Package: QFN; No of Pins: 64; Temperature Range: 0°C to +70°C

Manufacturers	Analog Devices, Inc
Package/Case	QFN-64
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2208CUP#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2208-14 is a 130Msps, sampling 14-bit A/D converter designed for digitizing high frequency, wide dynamic range signals with input frequencies up to 700MHz. The input range of the ADC can be optimized with the PGA front end.

The LTC2208-14 is perfect for demanding communications applications, with AC performance that includes 77.1dBFS Noise Floor and 98dB spurious free dynamic range (SFDR). Ultralow jitter of 70fsRMS allows undersampling of high input frequencies with excellent noise performance. Maximum DC specs include ± 1.5 LSB INL, ± 0.5 LSB DNL (no missing codes).

The digital output can be either differential LVDS or single-ended CMOS. There are two format options for the CMOS outputs: a single bus running at the full data rate or demultiplexed buses running at half data rate. A separate output power supply allows the CMOS output swing to range from 0.5V to 3.6V.

The ENC+ and ENC- inputs may be driven differentially or single-ended with a sine wave, PECL, LVDS, TTL or CMOS inputs. An optional clock duty cycle stabilizer allows high performance at full speed with a wide range of clock duty cycles.

BitsLTC2208-1414LTC2208-1616

Features

Sample Rate: 130Msps

77.1dBFS Noise Floor

98dB SFDR

SFDR >81dB at 250MHz (1.5VP-P Input Range)

PGA Front End (2.25VP-P or 1.5VP-P Input Range)

700MHz Full Power Bandwidth S/H

Optional Internal Dither

Optional Data Output Randomizer

LVDS or CMOS Outputs

Single 3.3V Supply

Power Dissipation: 1.32W

Clock Duty Cycle Stabilizer

Pin Compatible 16-Bit Version

130Msps: LTC2208 (16-Bit)

64-Pin (9mm × 9mm) QFN Package

Application

Telecommunications

Receivers

Cellular Base Stations

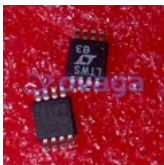
Spectrum Analysis

Imaging Systems

ATE



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[LT1171CQ](#)

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TO-263



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QFN-32



[LTC2600CGN#PBF](#)

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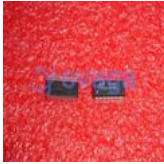
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