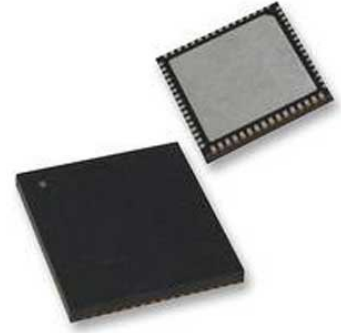


16-Bit, 105Msps Low Noise ADC; Package: QFN; No of Pins: 64; Temperature Range: -40°C to +85°C

Manufacturers	Analog Devices, Inc
Package/Case	QFN64
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2217IUP#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2217 is a 105Msps sampling 16-bit A/D converter designed for digitizing high frequency, wide dynamic range signals with input frequencies up to 400MHz. The input range of the ADC is fixed at 2.75VP-P.

The LTC2217 is perfect for demanding communications applications, with AC performance that includes 81.3dBFS Noise Floor and 100dB spurious free dynamic range (SFDR). Ultra low jitter of 85fsRMS allows undersampling of high input frequencies while maintaining excellent noise performance. Maximum DC specifications include ± 3.5 LSB INL, ± 1 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.

Applications

Telecommunications

Receivers

Cellular Base Stations

Spectrum Analysis

Imaging Systems

ATE

Features

Sample Rate: 105MSPs

81.3dBFS Noise Floor

100dB SFDR

SFDR > 90dB at 70MHz

85fsRMS Jitter

2.75VP-P Input Range

400MHz Full Power Bandwidth S/H

Optional Internal Dither

Optional Data Output Randomizer

LVDS or CMOS Outputs

Single 3.3V Supply

Power Dissipation: 1.19W

Clock Duty Cycle Stabilizer

Pin Compatible with LTC2208

64-Pin (9mm × 9mm) QFN Package

Application

Telecommunications

Receivers

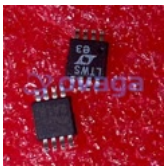
Cellular Base Stations

Spectrum Analysis

Imaging Systems

ATE

Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



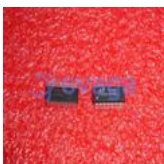
[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2418IGN#PBF](#)

Analog Devices, Inc
SSOP28



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc
QFN-32



[LTC2600CGN#PBF](#)

Analog Devices, Inc
SSOP16



[LTC2642CMS-16#PBF](#)

Analog Devices, Inc
10MSOP



[LTC1865AIMS#PBF](#)

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MSOP-16