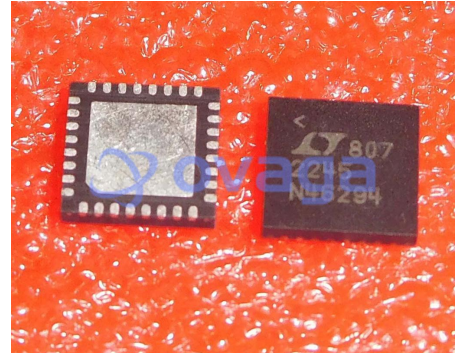


14-Bit, 10Msps Low Power 3V ADC

Manufacturers	Analog Devices, Inc
Package/Case	QFN-32
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2245CUH#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2245 is a 14-bit 10Msps, low power 3V A/D converter designed for digitizing high frequency, wide dynamic range signals. The LTC2245 is perfect for demanding imaging and communications applications with AC performance that includes 74.4dB SNR and 90dB SFDR for signals well beyond the Nyquist frequency.

DC specs include ± 1 LSB INL (typ), ± 0.5 LSB DNL (typ) and no missing codes over temperature. The transition noise is a low 1LSBRMS.

A single 3V supply allows low power operation. A separate output supply allows the outputs to drive 0.5V to 3.6V logic.

A single-ended CLK input controls converter operation. An optional clock duty cycle stabilizer allows high performance at full speed for a wide range of clock duty cycles.

Features

Sample Rate: 10Msps

Single 3V Supply (2.7V to 3.4V)

Low Power: 60mW

74.4dB SNR

90dB SFDR

No Missing Codes

Flexible Input: 1VP-P to 2VP-P Range

575MHz Full Power Bandwidth S/H

Clock Duty Cycle Stabilizer

Shutdown and Nap Modes

Pin Compatible Family

125Msps: LTC2253 (12-Bit), LTC2255 (14-Bit)

105Msps: LTC2252 (12-Bit), LTC2254 (14-Bit)

80Msps: LTC2229 (12-Bit), LTC2249 (14-Bit)

65Msps: LTC2228 (12-Bit), LTC2248 (14-Bit)

40Msps: LTC2227 (12-Bit), LTC2247 (14-Bit)

25Msps: LTC2226 (12-Bit), LTC2246 (14-Bit)

10Msps: LTC2225 (12-Bit), LTC2245 (14-Bit)

32-Pin (5mm × 5mm) QFN Package

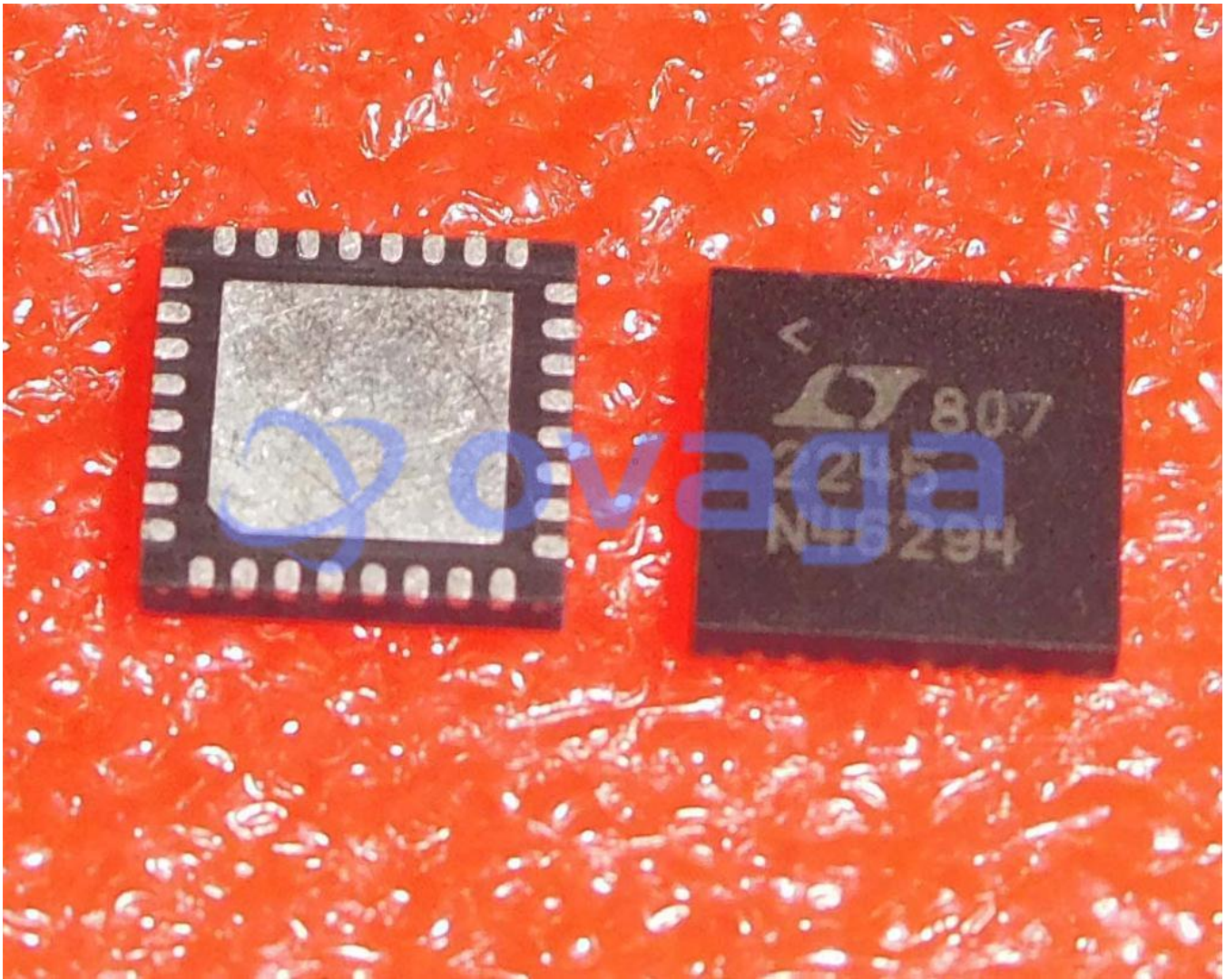
Application

Wireless and Wired Broadband Communication

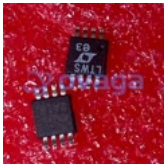
Imaging Systems

Spectral Analysis

Portable Instrumentation



Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



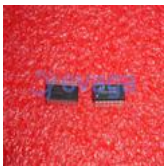
[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2418IGN#PBF](#)

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[LTC2351IUH-14#PBF](#)

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[LTC2600CGN#PBF](#)

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[LTC2642CMS-16#PBF](#)

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10MSOP



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