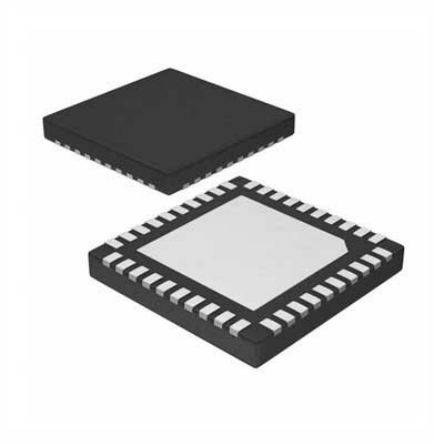
LTC2256IUJ-14#PBF

Data Sheet

IC ADC 14BIT 25MSPS 1.8V 40-QFN

Manufacturers	Analog Devices, Inc
Package/Case	QFN40
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2256IUJ-14#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LTC2258-14/LTC2257-14/LTC2256-14 are sampling 14-bit A/D converters designed for digitizing high frequency, wide dynamic range signals. They are perfect for demanding communications applications with AC performance that includes 74dB SNR and 88dB spurious free dynamic range (SFDR). Ultralow jitter of 0.17psRMS allows undersampling of IF frequencies with excellent noise performance.

DC specs include ±1LSB INL (typical), ±0.3LSB DNL (typical) and no missing codes over temperature. The transition noise is a low 1.13LSBRMS.

The digital outputs can be either full rate CMOS, double data rate CMOS, or double data rate LVDS. A separate output power supply allows the CMOS output swing to range from 1.2V to 1.8V.

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 for a wide range of clock duty cycles.

BitsLTC2256-1212LTC2256-1414

Features

74dB SNR

88dB SFDR

Low Power: 81mW/49mW/35mW

Single 1.8V Supply

CMOS, DDR CMOS or DDR LVDS Outputs

Selectable Input Ranges: 1VP-P to 2VP-P

800MHz Full-Power Bandwidth S/H

Optional Data Output Randomizer

Optional Clock Duty Cycle Stabilizer

Shutdown and Nap Modes

Serial SPI Port for Configuration

Pin Compatible 14-Bit and 12-Bit Versions

40-Pin (6mm × 6mm) QFN Package

Application

Communications

Cellular Base Stations

Software Defined Radios

Portable Medical Imaging

Multi-Channel Data Acquisition

Nondestructive Testing

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

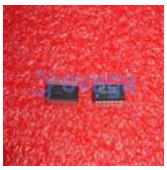
Analog Devices, Inc

DFN-10

LTC2642CMS-16#PBF

Analog Devices, Inc

10MSOP



LTC2418IGN#PBF

Analog Devices, Inc

SSOP28

LTC1865AIMS#PBF

Analog Devices, Inc

MSOP-1