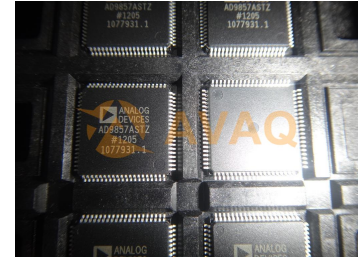


Direct Digital Synthesizer 200MHz 1-DAC 14bit Parallel/Serial 80-Pin LQFP Tray



Images are for reference only

Manufacturer: [Analog Devices, Inc](#)

Package/Case: LQFP80

Product Type: Clock & Timer ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The AD9857 integrates a high-speed direct-digital synthesizer (DDS), a high-performance, high-speed 14-bit digital-to-analog converter (DAC), clock multiplier circuitry, digital filters, and other DSP functions onto a single chip, to form a complete quadrature digital upconverter device. The AD9857 is intended to function as a universal I/Q modulator and agile upconverter, single-tone DDS, or interpolating DAC for communications applications, where cost, size, power dissipation, and dynamic performance are critical attributes.

Key Features

- 200 MHz internal clock rate
- 14-bit data path
- Excellent dynamic performance: 80 dB SFDR @ 65 MHz (± 100 kHz) AOUT
- 4 \times to 20 \times programmable reference clock multiplier
- Reference clock multiplier PLL lock detect indicator
- Internal 32-bit quadrature DDS
- FSK capability
- 8-bit output amplitude control
- Single-pin power-down function
- Four programmable, pin-selectable signal profiles
- SIN(x)/x correction (inverse SINC function)
- Simplified control interface 10 MHz serial, 2-wire or 3-wire SPI[®]-compatible

Application

- HFC data, telephony, and video modems
- Wireless base station
- Agile, LO frequency synthesis
- Broadband communications



Recommended For You

AD7305BRZ

Analog Devices, Inc
SOP20

AD9910BSVZ

Analog Devices, Inc
TQFP100

AD9831ASTZ

Analog Devices, Inc
QFP

AD5447YRUZ

Analog Devices, Inc
TSSOP

AD5302BRMZ

Analog Devices, Inc
MSOP10

AD5531BRUZ

Analog Devices, Inc
TSSOP16

AD537JH

Analog Devices, Inc
CAN10

AD652AQ

Analog Devices, Inc
DIP

AD654JN

Analog Devices, Inc
DIP8

AD7740YRMZ

Analog Devices, Inc
MSOP8

AD9914BCPZ

Analog Devices, Inc
LFCSP

AD73311ARSZ

Analog Devices, Inc
SSOP20

AD7291BCPZ

Analog Devices, Inc
LFCSP20

AD9954YSVZ

Analog Devices, Inc
QFP

AD2S1205YSTZ

Analog Devices, Inc
LQFP44