

32-Channel 14-Bit 3 V/5 V Single-Supply Voltage-Output DAC; Package: LQFP; No of Pins: 100; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	LQFP-100
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5382BSTZ-5 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5382 is a 32-channel, 14-Bit DAC and is available in a 14 mm x 14 mm 100-lead LQFP package. It operates from a single 3 V or 5 V supply. Programmable gain (m) and offset (c) are provided per channel to facilitate system calibration. Each DAC channel is double-buffered which allows all DAC outputs to be updated simultaneously via an LDAC pin. Each channel has an on-chip output amplifier which allows rail-to-rail operation. The AD5382 includes an internal 1.25 V/2.5 V low-drift reference. The AD5382 contains a parallel interface with a WRpulsewidth of 20 ns, a 30 MHz SPI interface and a 400 kHz I2C-compatible interface.

This device is pin-to-pin compatible with the AD5380 (40-ch 14-bit DAC), the AD5381 (40-ch 12-bit DAC) and the AD5383 (32-ch 12-bit DAC).

Features

Guaranteed Monotonic To 14-Bits

High Accuracy

User Programmable Offset And Gain For System Calibration

On-Chip 1.25 V/2.5 V Reference With 10 ppm^oC TempCo

On-Chip Output Amplifier With Rail-To-Rail Operation

Optional Boost Mode For Faster Slew Rate (8 μ s typ.)

Serial SPI, I2C and Parallel Interfaces

Simultaneous Update Of DAC Outputs Via Pin

Clear Function To User-Programmable Code

Low Power (300 μ A/channel)

Application

Variable optical attenuators (VOAs)

Level setting (ATE)

Optical micro-electro-mechanical systems (MEMS)

Control systems

Instrumentation



Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



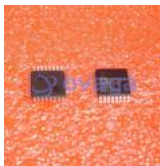
[AD574AJNZ](#)

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PDIP-28



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TQFP-32



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TQPF-32



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[AD7124-8BCPZ-RL7](#)

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LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc

LFCSP-64