

+5 Volt, Parallel Input Complete Dual 12-Bit DAC A/D Converter

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-24
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8582ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8582 is a complete, parallel input, dual 12-bit, voltage output DAC designed to operate from a single +5 volt supply. Built using a CBCMOS process, this monolithic DAC offers the user low cost, and ease-of-use in +5 volt only systems.

Included on the chip, in addition to the DACs, are a rail-to-rail amplifier, latch and reference. The reference (VREF) is trimmed to 2.5 volts output, and the on-chip amplifier gains up the DAC output to 4.095 volts full scale. The user needs only supply a +5 volt supply.>/p>

The AD8582 is coded natural binary. The op amp output swings from 0 volt to +4.095 volts for a one-millivolt-per-bit resolution, and is capable of driving ± 5 mA. Operation down to 4.3 V is possible with output load currents less than 1 mA.

The high speed parallel data interface connects to the fastest processors without wait states. The double-buffered input structure allows the user to load the input registers one at a time, then a single load strobe tied to both LDA + LDB inputs will update both DAC outputs simultaneously. LDA and LDB can also be activated independently to immediately update their respective DAC registers. An address input decodes DAC A or DAC B when the chip select CS input is strobed. An asynchronous reset input sets the output to zero scale. The MSB bit can be used to establish a preset to midscale when the reset input is strobed.

The AD8582 is available in the 24-pin plastic DIP and the surface mount SOIC-24. Each part is fully specified for operation over -40°C to +85°C, and the full +5 V $\pm 5\%$ power supply range.

Features

Complete Dual 12-Bit DAC

No External Components

Single +5 Volt Operation

1 mV/Bit with 4.095 V Full Scale

True Voltage Output, ± 5 mA Drive

Very Low Power: 5 mW

Related Products



[ADAS3022BCPZ](#)

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LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



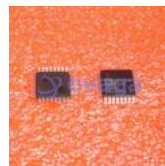
[AD7938BSUZ](#)

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TQFP-32



[AD7124-8BCPZ-RL7](#)

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[AD7401YRWZ](#)

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[AD9680BCPZ-500](#)

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