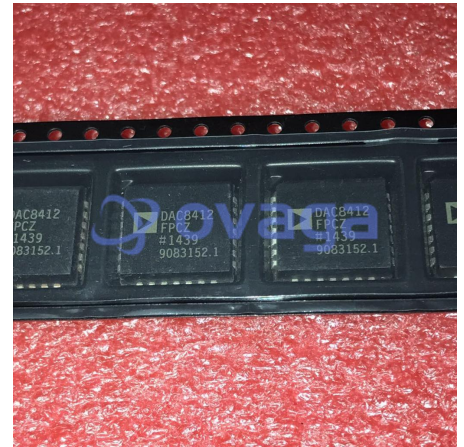


Quad, 12-Bit DAC Voltage Output with Readback; Package: PLCC; No of Pins: 28;  
Temperature Range: TBD

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	PLCC-28
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for DAC8412FPCZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The DAC8412/DAC8413 are quad, 12-bit voltage output DACs with readback capability. Built using a complementary BiCMOS process, these monolithic DACs offer the user very high package density.

Output voltage swing is set by the two reference inputs VREFH and VREFL. By setting the VREFL input to 0 V and VREFH to a positive voltage, the DAC provides a unipolar positive output range. A similar configuration with VREFH at 0 V and VREFL at a negative voltage provides a unipolar negative output range. Bipolar outputs are configured by connecting both VREFH and VREFL to nonzero voltages. This method of setting output voltage range has advantages over other bipolar offsetting methods because it is not dependent on internal and external resistors with different temperature coefficients.

Digital controls allow the user to load or read back data from any DAC, load any DAC, and transfer data to all DACs at one time.

An active low RESET loads all DAC output registers to midscale for the DAC8412 and zero scale for the DAC8413.

The DAC8412/DAC8413 are available in 28-lead plastic DIP, 28-lead ceramic DIP, 28-lead PLCC, and 28-lead LCC packages.

They can be operated from a wide variety of supply and reference voltages with supplies ranging from single +5 V to  $\pm 15$  V, and references from +2.5 V to  $\pm 10$  V. Power dissipation is less than 330 mW with  $\pm 15$  V supplies and only 60 mW with a +5 V supply.

For MIL-STD-883 applications, contact your local Analog Devices, Inc. sales office for the DAC8412/DAC8413/883 data sheet, which specifies operation over the  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  temperature range. All 883 parts are also available on Standard Military Drawings 5962-91 76401MXA through 76404M3A.

### Applications

Automatic test equipment

Digitally controlled calibration

Servo controls

Process control equipment

## Features

Unipolar or bipolar operation

True voltage output

Double-buffered inputs

Reset to minimum (DAC8413) or center scale (DAC8412)

Fast bus access time

Readback

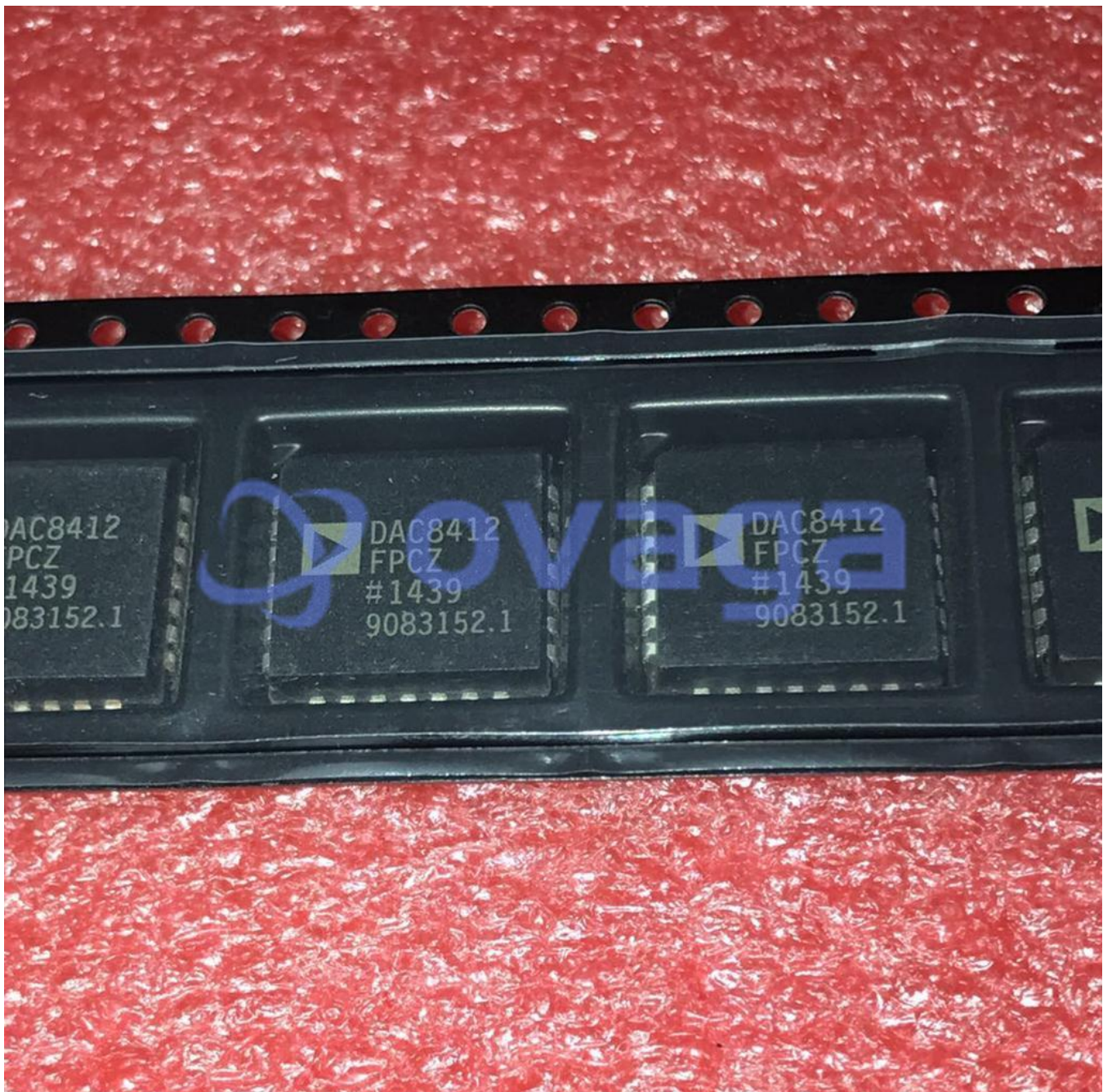
## Application

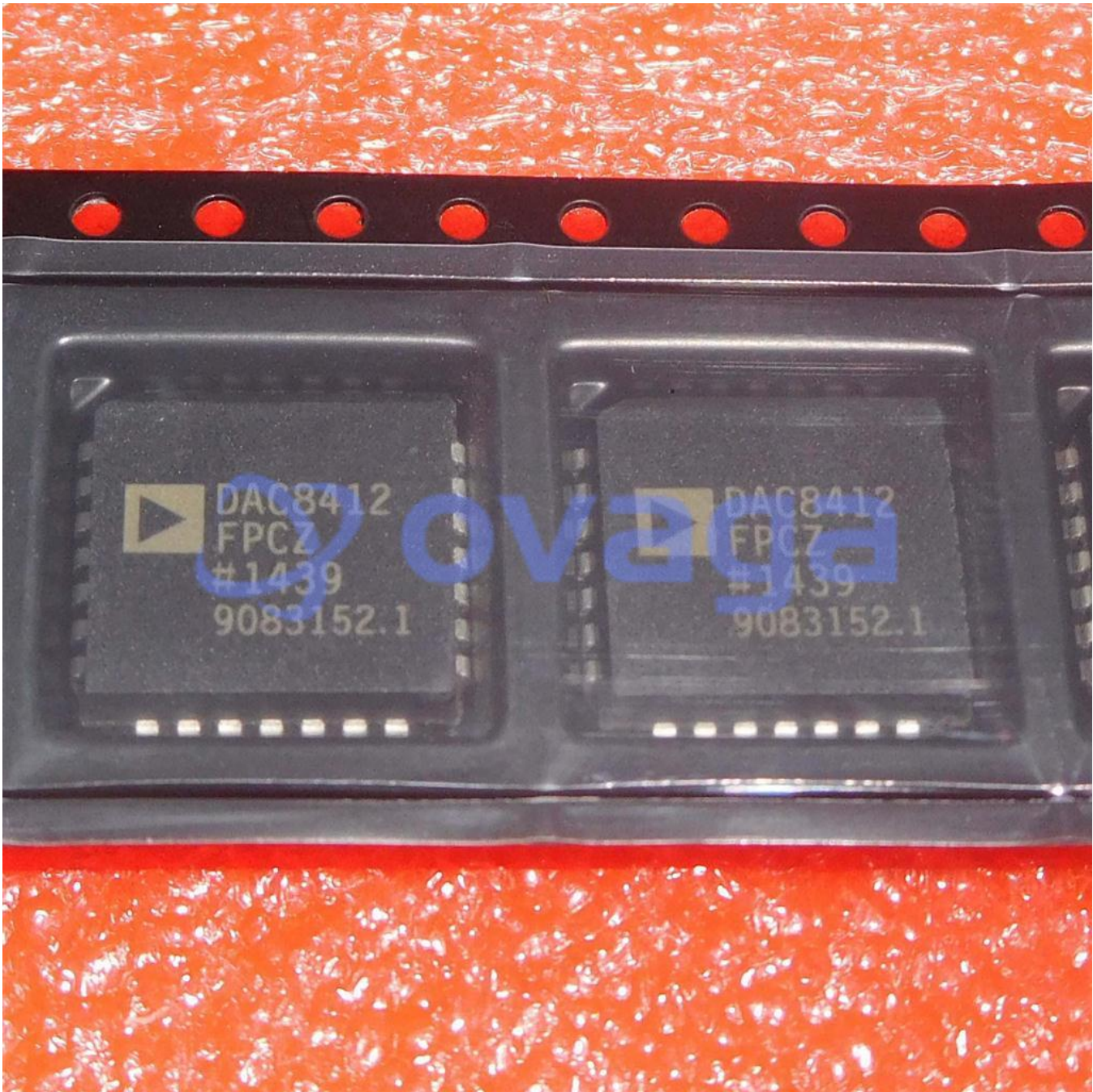
Automatic test equipment

Digitally controlled calibration

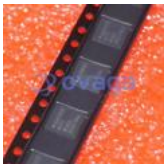
Servo controls

Process control equipment





## Related Products



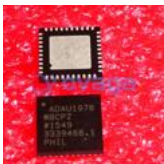
### [ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



### [ADATE305BSVZ](#)

Analog Devices, Inc  
TQFP-100



### [ADAU1978WBCPZ](#)

Analog Devices, Inc  
LFCSP40



### [DAC8512FSZ](#)

Analog Devices, Inc  
SOP-8



[DAC8420FSZ](#)

Analog Devices, Inc  
SOIC-16



[ADAS3023BCPZ](#)

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LFCSP-40



[DAC8413FPC](#)

Analog Devices, Inc  
PLCC-28



[DAC8420ES](#)

Analog Devices, Inc  
SOIC-16