DAC8420ESZ

Data Sheet

Digital to Analogue Converter, Quad, 12 bit, 125 kSPS, 3 Wire, Serial

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-16
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for DAC8420ESZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The DAC8420 is a quad, 12-bit voltage-output DAC with serial digital interface in a 16-lead package. Utilizing BiCMOS technology, this monolithic device features unusually high circuit density and lowpower consumption. The simple, easy-to-use serial digital input and fully buffered analog voltage outputs require no external components to achieve a specified performance.

The 3-wire serial digital input is easily interfaced to micro-processors running at 10 MHz with minimal additional circuitry. Each DAC is addressed individually by a 16-bit serial word consisting of a 12-bit data word and an address header. The user-programmable reset control CLR forces all four DAC outputs to either zero scale or midscale, asynchronously overriding the current DAC register values. The output voltage range, determined by the inputs VREFHI and VREFLO, is set by the user for positive or negative unipolar or bipolar signal swings within the supplies, allowing considerable design flexibility.

The DAC8420 is available in 16-lead PDIP, SOIC, and CERDIP packages. Operation is specified with supplies ranging from +5 V only to ±15 V, with references of +2.5 V to ±10 V, respectively. Power dissipation when operating from ±15 V supplies is less than 255 mW (maximum) and only 35 mW (maximum) with a +5 V supply.

Features

Guaranteed monotonic over temperature

Excellent matching between DACs

Unipolar or bipolar operation

Buffered voltage outputs

High speed serial digital interface

Reset-to-zero scale or midscale

Wide supply range, +5 V only to ±15 V

Low power consumption (35 mW maximum)

Available in 16-Lead PDIP, SOIC, and CERDIP packages

Application

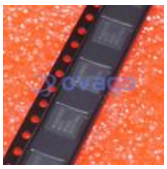
Software controlled calibration

Servo controls

Process control and automation

ATE

Related Products



ADAS3022BCPZ

Analog Devices, Inc

LFCSP-40

ADATE305BSVZ

Analog Devices, Inc

TQFP-100

ADAU1978WBCPZ

Analog Devices, Inc

LFCSP40

DAC8412FPCZ

Analog Devices, Inc

PLCC-28

DAC8512FSZ

Analog Devices, Inc

SOP-8

DAC8420FSZ

Analog Devices, Inc

SOIC-16

ADAS3023BCPZ

Analog Devices, Inc

LFCSP-40

DAC8413FPC

Analog Devices, Inc

PLCC-28