AD8801ARZ

Data Sheet

DAC 8-CH R-2R 8-bit 16-Pin SOIC N Tube

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 AD8801ARZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD8801/AD8803 provides eight digitally controlled dc voltage outputs. This potentiometer divider TrimDAC® allows replacement of the mechanical trimmer function in new designs. The AD8801/AD8803 is ideal for dc voltage adjustment applications.

Easily programmed by serial interfaced microcontroller ports, the AD8801 with its midscale preset is ideal for potentiometer replacement where adjustments start at a nominal value. Applications such as gain control of video amplifiers, voltage controlled frequencies and bandwidths in video equipment, geometric correction and automatic adjustment in CRT computer graphic displays are a few of the many applications ideally suited for these parts. The AD8803 provides independent control of both the top and bottom end of the potentiometer divider allowing a separate zero-scale voltage setting determined by the VREFL pin. This is helpful for maximizing the resolution of devices with a limited allowable voltage control range.

Internally the AD8801/AD8803 contain eight voltage output digital-to-analog converters, sharing a common reference voltage input.

Each DAC has its own DAC register that holds its output state. These DAC registers are updated from an internal serial-to-parallel shift register that is loaded from a standard three-wire serial input digital interface. Eleven data bits make up the data word clocked into the serial input register. This data word is decoded where the first 3 bits determine the address of the DAC register to be loaded with the last 8 bits of data. The AD8801/AD8803 consumes only 5 mA from 5 V power supplies. In addition, in shutdown mode reference input current consumption is also reduced to 5 µA while saving the DAC latch settings for use after return to normal operation.

The AD8801/AD8803 is available in 16-pin plastic DIP and the 1.5 mm height SO-16 surface mount packages.

Features

Low Cost

Replaces Eight Potentiometers

Eight Individually Programmable Outputs

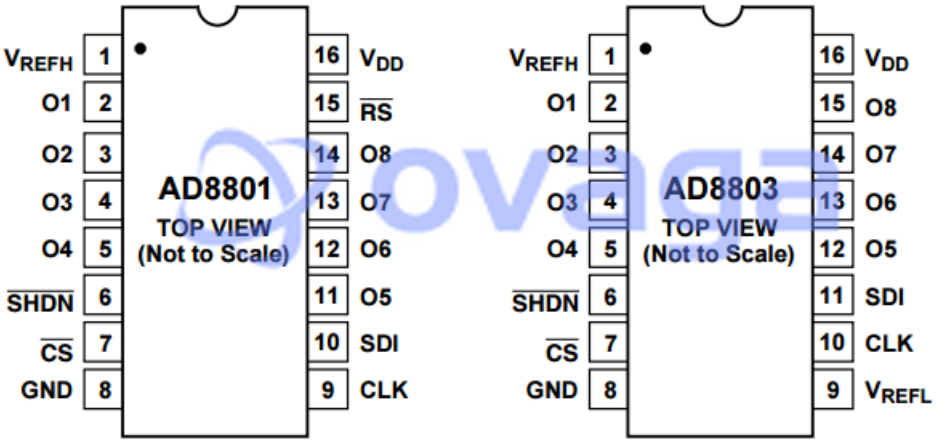
Three-Wire Serial Input

Power>

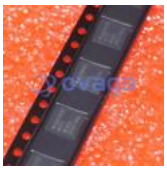
Midscale Preset, AD8801

Separate VREFLRange Setting, AD8803

PIN CONFIGURATIONS



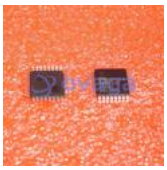
Related Products



ADAS3022BCPZ

Analog Devices, Inc

LFCSP-40



AD7266BSUZ

Analog Devices, Inc

TQPF-32

AD574AJNZ

Analog Devices, Inc

PDIP-28

AD7401YRWZ

Analog Devices, Inc

SOIC-16

AD7938BSUZ

Analog Devices, Inc

TQFP-32

AD7192BRUZ-REEL

Analog Devices, Inc

TSSOP-24

AD7124-8BCPZ-RL7

Analog Devices, Inc

LFCSP-32

AD9680BCPZ-500

Analog Devices, Inc

LFCSP-64