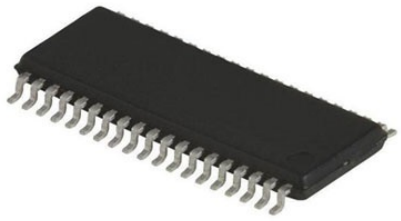
# AD5348BRUZ

Data Sheet

2.5 V to 5.5 V, Parallel Interface Octal Voltage Output 12-Bit D/A Converter

| | |
|---|---|
| Manufacturers | Analog Devices, Inc |
| Package/Case | TSSOP-38 |
| Product Type | Data Conversion ICs |
| RoHS | Rohs |
| Lifecycle | |



Images are for reference only

Please submit RFQ for AD5348BRUZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

## General Description

The AD5346/AD5347/AD5348 are octal 8-, 10-, and 12- bit DACs, operating from a 2.5 V to 5.5 V supply. These devices incorporate an on-chip output buffer that can drive the output to both supply rails, and also allows a choice of buffered or unbuffered reference input.

The AD5346/AD5347/AD5348 have a parallel interface. CS selects the device and data is loaded into the input registers on the rising edge of WR. A readback feature allows the internal DAC registers to be read back through the digital port.

The GAIN pin on these devices allows the output range to be set at 0 V to VREF or 0 V to 2 x VREF.

Input data to the DACs is double-buffered, allowing simultaneous update of multiple DACs in a system using the LDAC pin.

An asynchronous CLR input is also provided, which resets the contents of the Input Register and the DAC Register to all zeros. These devices also incorporate a power-on-reset circuit that ensures that the DAC output powers on to 0 V and remains there until valid data is written to the device. All three parts are pin-compatible, which allows the user to select the amount of resolution appropriate for their application without redesigning their circuit board.

## Features

Low power operation: 1.4 mA (max) at 3.6 V

Power-down to 120 nA at 3 V, 400 nA at 5 V

Guaranteed monotonic by design over all codes

Rail-to-rail output range:0 V to VREF or 0 V to 2 × VREF

Power-on reset to 0 V

Simultaneous update of DAC outputs via LDAC pin

Asynchronous CLR facility

Readback

Buffered/unbuffered reference inputs

20 ns WR time

38-lead TSSOP/6 mm × 6 mm 40-lead LFCSP packaging

Temperature range: –40°C to +105°C

## Application

Portable battery-powered instruments

Digital gain and offset adjustment

Programmable voltage and current sources

Optical networking

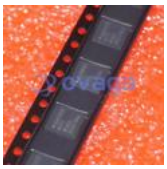
Automatic test equipment

Mobile communications

Programmable attenuators

Industrial process control

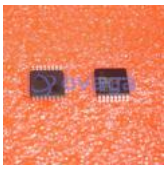
### Related Products



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