

Digital to Analogue Converter, 16 bit, 540 kSPS, Serial, SPI, 9V to 16.5V, -4.5V to -16.5V, QFP

Manufacturers	Analog Devices, Inc
Package/Case	LQFP-64
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5372BSTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5372/AD5373 contain 32, 16-bit or 14-bit digital-to-analog converters (DACs) in a single 64-lead LQFP. The devices provide buffered voltage outputs with a nominal span of $4\times$ the reference voltage. The gain and offset of each DAC can be independently trimmed to remove errors. For even greater flexibility, the device is divided into four groups of eight DACs. Two offset DACs allow the output range of the groups to be altered. Group 0 can be adjusted by Offset DAC 0, and Group 1 to Group 3 can be adjusted by Offset DAC 1.

The AD5372/AD5373 offer guaranteed operation over a wide supply range: VSS from -16.5 V to -4.5 V and VDD from 9 V to 16.5 V . The output amplifier headroom requirement is 1.4 V operating with a load current of 1 mA .

The AD5372/AD5373 have a high-speed serial interface, which is compatible with SPI, QSPI™, MICROWIRE™, and DSP interface standards and can handle clock speeds of up to 50 MHz .

The DAC registers are updated on reception of new data. All the outputs can be updated simultaneously by taking the LDAC input low. Each channel has a programmable gain and an offset adjust register.

Each DAC output is gained and buffered on-chip with respect to an external SIGGNDx input. The DAC outputs can also be switched to SIGGNDx via the CLR pin.

Features

32-channel DAC in a 64-lead LQFP

AD5372/AD53731 guaranteed monotonic to 16/14 bits

Maximum output voltage span of $4 \times V_{REF}$ (20 V)

Multiple, independent output voltage spans available

System calibration function allowing user-programmable offset and gain

Clear function to user-defined SIGGNDx

Simultaneous update of DAC outputs

See Data Sheet for Additional Information

Application

Level setting in automatic test equipment (ATE)

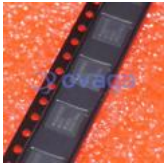
Variable optical attenuators (VOA)

Optical switches

Industrial control systems

Instrumentation

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



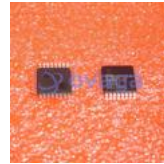
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
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[AD7266BSUZ](#)

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