

# AD9218BSTZ-40

Data Sheet

0-Bit, 40/65/80/105 MSPS 3 V Dual A/D Converter; Package: LQFP; No of Pins: 48;	
Temperature Range: Industrial	

Manufacturers	Analog Devices, Inc
Package/Case	LQFP48
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecvcle	



Images are for reference only

Please submit RFQ for AD9218BSTZ-40 or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

### **General Description**

The AD9218 is a dual 10-bit monolithic sampling analog-to-digital converter with on-chip track-and-hold circuits. The product is low cost, low power, and is small and easy to use. The AD9218 operates at a 105 MSPS conversion rate with outstanding dynamic performance over its full operating range. Each channel can be operated independently.

The ADC requires only a single 3.0 V (2.7 V to 3.6 V) power supply and a clock for full operation. No external reference or driver components are required for many applications. The digital outputs are TTL/CMOS compatible and a separate output power supply pin supports interfacing with 3.3 V or 2.5 V logic.

The clock input is TTL/CMOS compatible and the 10-bit digital outputs can be operated from 3.0 V (2.5 V to 3.6 V) supplies. User-selectable options offer a combination of power-down modes, digital data formats, and digital data timing schemes. In power-down mode, the digital outputs are driven to a high impedance state.

### **Product Highlights**

### Applications

Low Power. Only 275 mW power dissipation per channel at 105 MSPS. Other speed grades proportionally scaled down while maintaining high ac performance.

Pin Compatibility Upgrade. Allows easy migration from 8-bit to 10-bit devices. Pin compatible with the 8-bit AD9288 dual ADC.

Easy to Use. On-chip reference and user controls provide flexibility in system design.

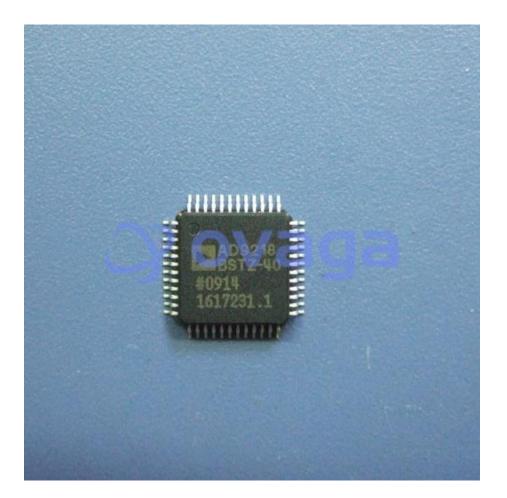
High Performance. Maintains 54 dB SNR at 105 MSPS with a Nyquist input.

Channel Crosstalk. Very low at -75 dBc. 6. Fabricated on an Advanced CMOS Process. Available in a 48-lead low profile quad flat package (7 mm × 7 mm LQFP) specified over the industrial temperature range ( $-40^{\circ}$ C to  $+85^{\circ}$ C).

### Features

Dual 10-bit, 40 MSPS, 65 MSPS, 80 MSPS, and 105 MSPS ADC Low power: 275 mW at 105 MSPS per channel On-chip reference and track-and-hold 300 MHz analog bandwidth each> 1 V p-p or 2 V p-p analog input range each channel 3.0 V single-supply operation (2.7 V to 3.6 V) Power-down mode for single-channel operation Twos complement or offset binary output mode Output data alignment mode Pin compatible with the 8-bit AD9288 AD9218-EP Supports Defense and Aerospace Applications (AQEC standard) Download AD9218-EP data sheet (pdf) Extended industrial temperature range: -55°C to +105°C Controlled manufacturing baseline 1 assembly/test site 1 fabrication site Product change notification Qualification data available on request V62/19610-01XE DSCC Drawing Number Download AD9218-EP data sheet (pdf) Extended industrial temperature range: -55°C to +105°C Controlled manufacturing baseline 1 assembly/test site 1 fabrication site Product change notification Qualification data available on request V62/19610-01XE DSCC Drawing Number





### **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 LFCSP-32









## Analog Devices, Inc TSSOP-24

AD9680BCPZ-500 Analog Devices, Inc LFCSP-64

### AD7266BSUZ

Analog Devices, Inc TQPF-32

AD7401YRWZ Analog Devices, Inc SOIC-16

AD7192BRUZ-REEL

Ovaga Technologies Limited