

AD7610BSTZ

Data Sheet

Analogue to Digital Converter, 16 bit, 250 kSPS, Single Ended, Parallel, Serial, 2.7 V

Manufacturers	Analog Devices, Inc	Silver will
Package/Case	LQFP-48	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWW
Product Type	Data Conversion ICs	THERE REAL AND DESCRIPTION OF THE PARTY OF T
RoHS	Pb-free Halide free	
Lifecycle		Images are for reference only

Please submit RFQ for AD7610BSTZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The AD7610 is a 16-bit charge redistribution successive approximation register (SAR), architecture analog-to-digital converter (ADC) fabricated on Analog Devices, Inc.'s iCMOS high voltage process. The device is configured through hardware or via a dedicated write only serial configuration port for input range and operating mode. The AD7610 contains a high speed 16-bit sampling ADC, an internal conversion clock, an internal reference (and buffer), error correction circuits, and both serial and parallel system interface ports. A falling edge on CNVST samples the analog input on IN+ with respect to a ground sense, IN–. The AD7610 features four different analog input ranges: 0 V to 5 V, 0 V to 10 V, \pm 5 V, and \pm 10 V. Power consumption is scaled linearly with throughput. The device is available in Pb-free 48-lead, low-profile quad flat package (LQFP) and a lead frame chip-scale (LFCSP_VQ) package. Operation is specified from -40° C to $+85^{\circ}$ C.

Features

Multiple pins/software programmable input ranges: 5 V, 10 V, ±5 V, ±10 V Pins or serial SPI®-compatible input ranges/mode selection Throughput: 250 kSPS 16-bit resolution with no missing codes INL: ±0.75 LSB typ, ±1.5 LSB max (±23 ppm of FSR) SNR: 94 dB @ 2 kHz iCMOS® process technology 5 V internal reference: typical drift 3 ppm/°C On-chip temperature sensor No pipeline delay (SAR architecture) Parallel (16- or 8-bit bus) and serial 5 V/3.3 V interface SPI®-/QSPITM-/MICROWIRETM-/DSP-compatible

Application

Process control
Medical instruments
High speed data acquisition
Digital signal processing
Instrumentation
Spectrum analysis
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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



TQPF-32 AD7401YRWZ

Analog Devices, Inc SOIC-16

AD7266BSUZ

Analog Devices, Inc

AD7192BRUZ-REEL

Analog Devices, Inc TSSOP-24

AD9680BCPZ-500

Analog Devices, Inc LFCSP-64



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