

1-Channel Single ADC SAR 2Msps 18-bit Parallel/Serial 48-Pin LQFP Tray

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



Images are for reference only

Please submit RFQ for AD7641BSTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7641 is hardware factory calibrated and comprehensively tested to ensure ac parameters such as signal-to-noise ratio (SNR) and total harmonic distortion (THD) in addition to the more traditional dc parameters of gain, offset and linearity.

Operation is specified from -40°C to $+85^{\circ}\text{C}$.

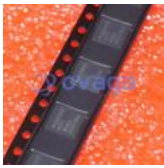
Features

- 18-bit resolution with no missing codes
- 2.5 V internal low drift reference Throughput: 2 MSPS (Warp mode) 1.5 MSPS (Normal mode)
- Differential input range: $\pm V_{REF}$ (V_{REF} up to 2.5 V)
- INL: ± 2 LSB typical
- No pipeline delay (SAR architecture)
- Parallel (18-, 16-, or 8-bit bus)
- Serial 5 V/3.3 V/2.5 V interface
- SPI®/QSPI™/MICROWIRE™/DSP compatible
- On-board low drift reference with buffer and temperature sensor

Application

- Medical instruments
- High dynamic data acquisition
- Instrumentation
- Spectrum analysis
- ATE

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



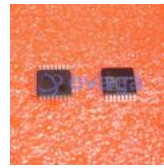
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



[AD7401YRWZ](#)

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SOIC-16



[AD7192BRUZ-REEL](#)

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TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64