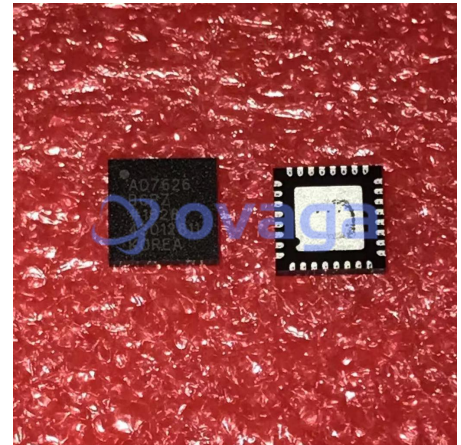


Analogue to Digital Converter, 16 bit, 10 MSPS, Differential, LVDS, Serial, Single, 2.37 V

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-32
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7626BCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7626 is a 16-bit, 10 MSPS, charge redistribution successive approximation register (SAR) based architecture analog-to-digital converter (ADC). SAR architecture allows unmatched performance both in noise (91.5 dB SNR) and in linearity (± 0.45 LSB INL). The AD7626 contains a high speed, 16-bit sampling ADC, an internal conversion clock, and an internal buffered reference. On the CNV edge, it samples the voltage difference between the IN+ and IN- pins. The voltages on these pins swing in opposite phase between 0 V and REF. The 4.096 V reference voltage, REF, can be generated internally or applied externally.

All converted results are available on a single low voltage differential signaling (LVDS) self clocked or echoed clock serial interface, reducing external hardware connections.

The AD7626 is housed in a 32-lead, 5 mm \times 5 mm LFCSP with operation specified from -40°C to $+85^{\circ}\text{C}$.

Features

Throughput: 10 MSPS

SNR: 91.5 dB

16-bit no missing codes

INL: ± 0.45 LSB

DNL: ± 0.35 LSB

Power dissipation: 136 mW

32-lead LFCSP (5 mm \times 5 mm)

SAR architecture

No latency/pipeline delay

16-bit resolution with no missing codes

Zero error: ± 1 LSB

Differential input range: ± 4.096 V

See data sheet for additional features

Application

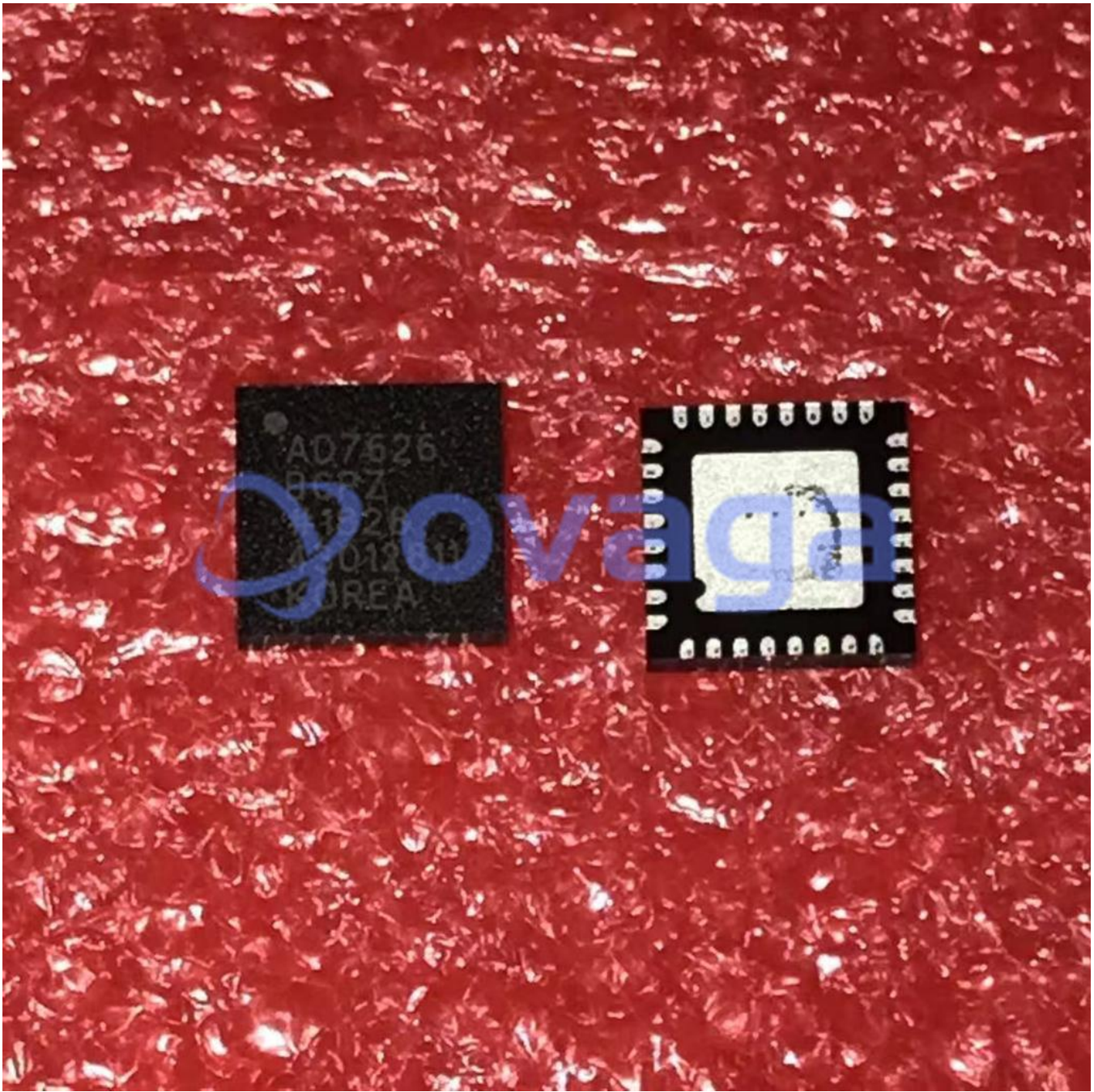
Digital imaging systems– Digital X-ray– Digital MRI– CCD and IR cameras

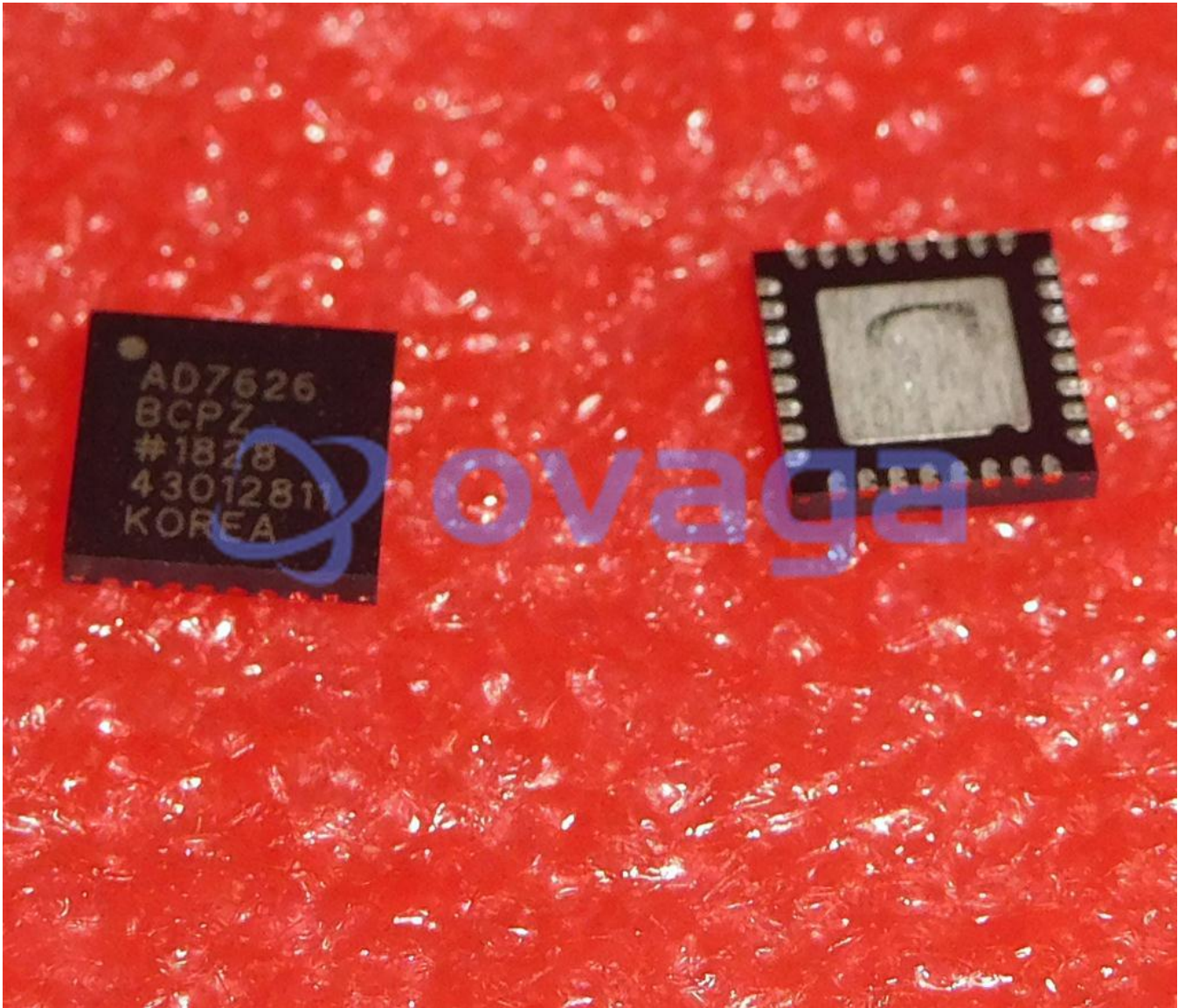
High speed data acquisition

High dynamic range telecommunications receivers

Spectrum analysis

Test equipment

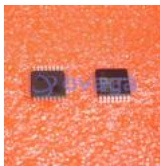




Related Products



[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