

Analog to Digital Converters - ADC 10-BIT 250MSPS LW PW ADC PROG

Manufacturers	Renesas Technology Corp
Package/Case	48-VFQFN
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for KAD5510P-25Q48 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The KAD5510P is a family of low power, high performance 10-bit analog-to-digital converters. Designed with Intersil's proprietary FentoCharge™ technology on a standard CMOS process, the family supports sampling rates of up to 250MSPS. The KAD5510P is part of a pin-compatible portfolio of 10-, 12- and 14-bit A/Ds with sample rates ranging from 125MSPS to 500MSPS. A Serial Peripheral Interface (SPI) port allows for extensive configurability, as well as fine control of various parameters such as gain and offset. Digital output data is presented in selectable LVDS or CMOS formats. The KAD5510P is available in a 48 Ld QFN package with an exposed paddle. Operating from a 1.8V supply, performance is specified across the industrial operating temperature range (-40°C to +85°C). Key Specifications \$ = 105MHz (-1dBFS) \$ = 105MHz (-1dBFS) \$ Total Power Consumption \$\$ 234/189mW at 250/125MSPS (DDR Mode)

Features

1.5GHz analog input bandwidth

60fs clock jitter

Programmable gain, offset and skew control

Over-range indicator

Selectable clock divider: $\div 1$, $\div 2$ or $\div 4$

Clock phase selection

Nap and sleep modes

Two's complement, gray code or binary data format

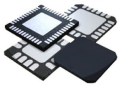
DDR LVDS-compatible or LVCMOS outputs

Programmable built-in test patterns

Single-supply 1.8V operation

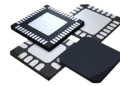
Pb-free (RoHS compliant)

Related Products



[KAD5612P-25Q72](#)

Renesas Technology Corp
72-QFN



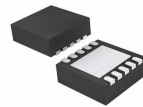
[KAD5612P-21Q72](#)

Renesas Technology Corp
QFN-EP-72



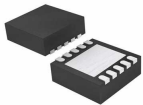
[KAD5612P-17Q72](#)

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72pin-QFN



[KAD5610P-25Q72](#)

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72-QFN (10X10)



[KAD5610P-21Q72](#)

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72-QFN (10X10)



[KAD5514P-25Q72](#)

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