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Analog to Digital Converters

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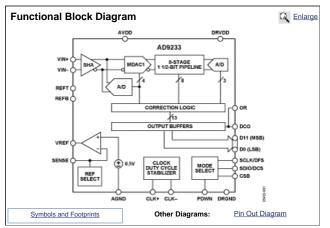
AD9233 12-Bit, 80 MSPS/105 MSPS/125 MSPS, 1.8 V Analog-to-Digital Converter

Data Sheets Price, Packaging, **Application Notes Evaluation Boards** Rev A, 08/2006 (pdf, 1262K) and Availability Lead(Pb) - Free Data (Data Sheet Help)

Product Description

The AD9233 is a monolithic, single 1.8 V supply, 12-bit, 80 MSPS/105 MSPS/125 MSPS analog-to-digital converter (ADC), featuring a high performance sample-and-hold amplifier (SHA) and on-chip voltage ... More

Specifications	
Resolution (Bits)	12bit
T-Put Rate	125MSPS
# Chan	1
Supply V	Multi(+1.8Anlg, +3.3Dig)
Pwr Diss (max)	425mW
Interface	Par
Ain Range	(2Vref) p-p, 2 V p-p
SNR (dB)	69.5dB
Pkg Type	CSP
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Features

- 1.8 V analog supply operation
- 1.8 V to 3.3 V output supply
- SNR = 69.5 dBc (70.5 dBFS) to 70 MHz input
- SFDR = 85 dBc to 70 MHz input
- Low power: 395 mW @ 125 MSPS
- Differential input with 650 MHz bandwidth
- On-chip voltage reference and sample-and-hold amplifier
- DNL = ±0.15 LSB
- Flexible analog input: 1 V p-p to 2 V p-p range
- . Offset binary, Gray code, or twos complement data format
- Data output clock and clock duty cycle stabilizer
- Serial port control Built-in selectable digital test pattern generation Programmable clock and data alignment

New A/D Converters AD7767 - 24-Bit, 8.5 mW. 109 dB.

128/64/32 kSPS ADCs AD7980 - 16-Bit, 1 MSPS PulSAR® ADC in MSOP/QFN

AD7766 - 24-Bit, 8.5 mW, 109 dB, 128/64/32 kSPS ADCs

AD7366-5 - True Bipolar Input, 12-Bit, 2-Channel, Simultaneous Sampling SAR ADC

More...

Design Tools <u>ADIsimADC</u>

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Signal Chains

http://www.analog.com/en/prod/0%2C2877%2CAD9233%2C00.html (1 of 3)9/20/2007 2:41:16 PM

Design Tools

High-Speed ADC FIFO Evaluation Kit

There are two high speed ADC evaluation kits available. The FIFO-based data acquisition board has a 32kB FIFO depth and acquires up to 133Msps on each channel. The FPGA-based data acquisition board has a 64kB FIFO depth and acquires up to 800Msps on each channel.

ADIsimADC

ADIsimADC simulates behavior using many critical specifications of data converters, including offset, gain, sample rate, bandwidth, jitter, latency, both AC and DC linearity. These models provide a way to validate performance of the converter at the system level to determine the applicability of a selected device. Users can run real-time FFT and time-domain analysis; analyze SNR, SINAD, SFDR, and harmonics; export data for additional analysis.

Price, Packaging, and Availability

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AD9233 Model Optio	n
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<u>Model</u>	<u>Status</u>	<u>Package</u>	Pins	Temp Range	Price* (1000 pcs.)	Available	RoHS Compliant	Samples Cart	Purchase Cart
AD80141BCPZ-140	Prodn	48 ld LFCSP (7x7x.85mm w/4.1mm Pad)	48	Ind	\$17.40	9/21/2007	Y Material Declaration	Add to Cart	Add to Cart
AD9233-105EB	LAST TIME BUY	EVALUATION BOARDS	48	TBD	-	-	N	Contact ADI	Contact ADI
AD9233-105EBZ	Prodn	EVALUATION BOARDS	48	TBD	-	-	Y	Contact ADI	Add to Cart
AD9233-125EBZ	Prodn	EVALUATION BOARDS	48	TBD	\$200.00	9/21/2007	Υ	Contact ADI	Add to Cart
AD9233BCPZ-105	Prodn	48 ld LFCSP (7x7x.85mm w/4.1mm Pad)	48	Ind	\$22.75	9/21/2007	Y Material Declaration	Add to Cart	Add to Cart
AD9233BCPZ-125	Prodn	48 ld LFCSP (7x7x.85mm w/4.1mm Pad)	48	Ind	\$26.95	9/21/2007	Y Material Declaration	Add to Cart	Add to Cart
AD9233BCPZ-80	Prodn	48 ld LFCSP (7x7x.85mm w/4.1mm Pad)	48	TBD	\$16.70	9/21/2007	Y Material Declaration	Add to Cart	Add to Cart
AD9233BCPZRL7- 105	Prodn	48 ld LFCSP (7x7x.85mm w/4.1mm Pad)	48	Ind	\$22.75	9/21/2007	Y Material Declaration	Contact ADI	Add to Cart
AD9233BCPZRL7- 125	Prodn	48 ld LFCSP (7x7x.85mm w/4.1mm Pad)	48	Ind	\$26.95	10/12/2007	Y Material Declaration	Contact ADI	Add to Cart

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Interactive Signal Chains

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Parametric Selection Table

Part# Res		Throughput Rate	# of Inputs	Operating Pwr Diss	
AD0222 425	40	40514070		405 W	
AD9233-125	12	125MSPS	1	425mW	
AD9230-170	12	170MSPS	1 1	407mW	
AD9211-200	10	200MSPS	1	356mW	
AD9230-250	12	250MSPS	1	463mW	
AD9430-170	12	170MSPS	1	1.43W	
AD9433-125	12	125MSPS	1	1.5W	
AD9233-105	12	105MSPS	1	350mW	
AD9430-210	12	210MSPS	1	1.7W	
AD9236	12	80MSPS	1	411mW	
AD9237-65	12	65MSPS	1	270mW	
AD9235-65	12	65MSPS	1	350mW	

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