

Competitor or TI?	TI	TI	TI	Competitor
Parameter	ADS9815	ADS9817	ADS8588H	AD7606
Description	Eight-channel, 18-bit, 1-MSPS/ch dual simultaneous-sampling ADC with integrated analog front end	Eight-channel, 18-bit, 2-MSPS/ch dual simultaneous-sampling ADC with integrated analog front end	16-Bit 500kSPS 8-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply	8-Channel DAS with 16-Bit, Bipolar Input, Simultaneous Sampling ADC
Resolution (Bits)	18	18	16	16
Sample rate (max) (ksps)	1000	2000	500	1000
Number of input channels	8	8	8	8
Interface type	Serial CMOS	Serial CMOS	Byte-Wide/Parallel/SPI	Parallel SPI
Architecture	SAR	SAR	SAR	SAR
Input type	Differential/Single-ended	Differential/Single-ended	Single-ended	Single-Ended
Multichannel configuration	Multiplexed	Multiplexed	Simultaneous Sampling	Data Acquisition System Integrated AA Filter Integrated PGA Simultaneous Sampling
Rating	Catalog	Catalog	Catalog	EP
Reference mode	External/Internal	External/Internal	External/Internal	External / Internal
Features	Over-Voltage Protection/PGA	Over-Voltage Protection/PGA	Oscillator/Over-Voltage Protection/PGA	ADC Anti-Aliasing Filter Integrated PGA Reference
Operating temperature range (°C)	-40 to 125	-40 to 125	-40 to 125	-55 ~ 125
Price Quantity (USD)	27	28.3	14.52	20.16
TI functional safety category	N/A	N/A	N/A	N/A
Package type	VQFN	VQFN	LQFP	64-Lead LQFP (10mm x 10mm)
Pin count	56	56	64	0
Package area (mm^2)	49.0	49.0	144.0	144.0
Package size (L x W) (mm)	7 x 7	7 x 7	12 x 12	0
Power consumption (typ) (mW)	220.0	220.0	88.5	100.0
SNR (dB)	N/A	92.3	92.6	95.5
Status	PREVIEW	ACTIVE	ACTIVE	ACTIVE