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# ADS8664

## [ACTIVE](#)

## 12-Bit SAR ADC With 4-Channels, 500kSPS, and Bipolar Inputs Off 5V Supply

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# ADS8664

## [ACTIVE](#)

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## Product details

Resolution (Bits) 12 Sample rate (max) (ksps) 500 Number of input channels 4 Interface type SPI Architecture SAR Input type Single-ended Multichannel configuration Multiplexed Rating Catalog Reference mode Internal Input voltage range (max) (V) 10.24 Input voltage range (min) (V) -10.24 Features Daisy-Chainable, Oscillator, Over-Voltage Protection, PGA Operating temperature range (°C) -40 to 125 Power consumption (typ) (mW) 65 Analog supply (min) (V) 4.75 Analog supply voltage (max) (V) 5.25 SNR (dB) 73.8 Digital supply (min) (V) 1.65 Digital supply (max) (V) 5.25

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[TSSOP \(DBT\)](#) 38 62.08 mm<sup>2</sup> 9.7 x 6.4

- 12-Bit ADCs with Integrated Analog Front-End
  - 4-, 8-Channel MUX with Auto and Manual Scan
  - Channel-Independent Programmable Inputs:
    - $\pm 10.24\text{ V}$ ,  $\pm 5.12\text{ V}$ ,  $\pm 2.56\text{ V}$ ,  $\pm 1.28\text{ V}$ ,  $\pm 0.64\text{ V}$
    - $10.24\text{ V}$ ,  $5.12\text{ V}$ ,  $2.56\text{ V}$ ,  $1.28\text{ V}$
  - 5-V Analog Supply: 1.65-V to 5-V I/O Supply
  - Constant Resistive Input Impedance:  $1\text{ M}\Omega$
  - Input Overvoltage Protection: Up to  $\pm 20\text{ V}$
  - On-Chip, 4.096-V Reference with Low Drift
  - Excellent Performance:
    - 500-kSPS Aggregate Throughput
    - DNL:  $\pm 0.2\text{ LSB}$ ; INL:  $\pm 0.2\text{ LSB}$
    - Low Drift for Gain Error and Offset
    - SNR: 73.8 dB; THD:  $-95\text{ dB}$
    - Low Power: 65 mW
  - AUX Input  $\rightarrow$  Direct Connection to ADC Inputs
  - ALARM  $\rightarrow$  High and Low Thresholds per Channel
  - SPI™-Compatible Interface with Daisy-Chain
  - Industrial Temperature Range:  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
  - TSSOP-38 Package ( $9.7\text{ mm} \times 4.4\text{ mm}$ )
- 
- 12-Bit ADCs with Integrated Analog Front-End
  - 4-, 8-Channel MUX with Auto and Manual Scan
  - Channel-Independent Programmable Inputs:
    - $\pm 10.24\text{ V}$ ,  $\pm 5.12\text{ V}$ ,  $\pm 2.56\text{ V}$ ,  $\pm 1.28\text{ V}$ ,  $\pm 0.64\text{ V}$
    - $10.24\text{ V}$ ,  $5.12\text{ V}$ ,  $2.56\text{ V}$ ,  $1.28\text{ V}$
  - 5-V Analog Supply: 1.65-V to 5-V I/O Supply
  - Constant Resistive Input Impedance:  $1\text{ M}\Omega$
  - Input Overvoltage Protection: Up to  $\pm 20\text{ V}$
  - On-Chip, 4.096-V Reference with Low Drift
  - Excellent Performance:
    - 500-kSPS Aggregate Throughput
    - DNL:  $\pm 0.2\text{ LSB}$ ; INL:  $\pm 0.2\text{ LSB}$
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    - Low Power: 65 mW
  - AUX Input  $\rightarrow$  Direct Connection to ADC Inputs
  - ALARM  $\rightarrow$  High and Low Thresholds per Channel
  - SPI™-Compatible Interface with Daisy-Chain
  - Industrial Temperature Range:  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
  - TSSOP-38 Package ( $9.7\text{ mm} \times 4.4\text{ mm}$ )

The ADS8664 and ADS8668 are 4- and 8-channel, integrated data acquisition systems based on a 12-bit successive approximation (SAR) analog-to-digital converter (ADC), operating at a throughput of 500 kSPS. The devices feature integrated analog front-end circuitry for each input channel with overvoltage protection up to  $\pm 20\text{ V}$ , a 4- or 8-channel multiplexer with automatic and manual scanning modes, and an on-chip, 4.096-V reference with low temperature drift. Operating on a single 5-V analog supply, each input channel on the devices can support true bipolar input ranges of  $\pm 10.24\text{ V}$ ,  $\pm 5.12\text{ V}$ ,  $\pm 2.56\text{ V}$ ,  $\pm 1.28\text{ V}$  and  $\pm 0.64\text{ V}$ , as well as unipolar input ranges of  $0\text{ V}$  to  $10.24\text{ V}$ ,  $0\text{ V}$  to  $5.12\text{ V}$ ,  $0\text{ V}$  to  $2.56\text{ V}$  and  $0\text{ V}$  to  $1.28\text{ V}$ . The gain of the analog front-end for all input ranges is accurately trimmed to ensure a high dc precision. The input range selection is software-programmable and independent for each channel. The devices offer a  $1\text{-M}\Omega$  constant resistive input impedance irrespective of the selected input range.

The ADS8664 and ADS8668 offer a simple SPI-compatible serial interface to the digital host and also support daisy-chaining of multiple devices. The digital supply operates from  $1.65\text{ V}$  to  $5.25\text{ V}$ , enabling direct interface to a wide range of host controllers.

The ADS8664 and ADS8668 are 4- and 8-channel, integrated data acquisition systems based on a 12-bit successive approximation (SAR) analog-to-digital converter (ADC), operating at a throughput of 500 kSPS. The devices feature integrated analog front-end circuitry for each input channel with overvoltage protection up to  $\pm 20\text{ V}$ , a 4- or 8-channel multiplexer with automatic and manual scanning modes, and an on-chip, 4.096-V reference with low temperature drift. Operating on a single 5-V analog supply, each input channel on the devices can support true bipolar input ranges of  $\pm 10.24\text{ V}$ ,  $\pm 5.12\text{ V}$ ,  $\pm 2.56\text{ V}$ ,  $\pm 1.28\text{ V}$  and  $\pm 0.64\text{ V}$ , as well as unipolar input ranges of  $0\text{ V}$  to  $10.24\text{ V}$ ,  $0\text{ V}$  to  $5.12\text{ V}$ ,  $0\text{ V}$  to  $2.56\text{ V}$  and  $0\text{ V}$  to  $1.28\text{ V}$ . The gain of the analog front-end for all input ranges is accurately trimmed to ensure a high dc precision. The input range selection is software-programmable and independent for each channel. The devices offer a  $1\text{-M}\Omega$  constant resistive input impedance irrespective of the selected input range.

The ADS8664 and ADS8668 offer a simple SPI-compatible serial interface to the digital host and also support daisy-chaining of multiple devices. The digital supply operates from  $1.65\text{ V}$  to  $5.25\text{ V}$ , enabling direct interface to a wide range of host controllers.

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## Technical documentation

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| * Data sheet     | <a href="#">ADS866x 12-Bit, 500-kSPS, 4- and 8-Channel, Single-Supply, SAR ADCs with Bipolar Input Ranges datasheet</a> | <a href="#">PDF</a>   <a href="#">HTML</a> | 14 Jul 2015 |
| Circuit design   | <a href="#">Input Protection for High-Voltage ADC Circuit with TVS Diode (Rev. A)</a>                                   | <a href="#">PDF</a>   <a href="#">HTML</a> | 02 May 2023 |
| Application note | <a href="#">Circuit for detecting input floating on ADS8681 ADC</a>   | <a href="#">PDF</a>   <a href="#">HTML</a> | 31 Mar 2021 |
| Application note | <a href="#">Reducing Phase Delay by Averaging on ADS8686S with Burst Sequencer Mode</a>                                 | <a href="#">PDF</a>   <a href="#">HTML</a> | 11 Jan 2021 |
| Circuit design   | <a href="#">High common-mode differential input voltage to <math>\pm 10</math>-V ADC input circuit</a>                  |  | 20 Dec 2018 |
| Application note | <a href="#">Extending Input Voltage Range and Understanding Associated Errors for ADC With I</a>                        |  | 09 Nov 2018 |
| E-book           | <a href="#">Best of Baker's Best: Precision Data Converters -- SAR ADCs</a>   |  | 21 May 2015 |
| User guide       | <a href="#">Phase-Compensated 8-Ch Multiplexed Data Acquisition System for Power Automation (Rev. B)</a>                |  | 12 Mar 2015 |

## Design & development

For additional terms or required resources, click any title below to view the detail page where available.

GUI for evaluation module (EVM)

### SBAC139 — ADS86xxEVM-PDK GUI

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Supported products & hardware

## Supported products & hardware

### Products

#### Precision ADCs

[ADS8664](#) — 12-Bit SAR ADC With 4-Channels, 500kSPS, and Bipolar Inputs Off 5V Supply [ADS8674](#) — 14-Bit 500kSPS 4-Channel SAR ADC With Bipolar Inputs Off 5V Supply [ADS8684A](#) — 16-Bit, 500-kSPS, 4-Ch SAR ADC w/ programmable ( $\pm 10/\pm 5/\pm 2.5$ V) input ranges & ALARM on +5V supply [ADS8694](#) — 18-Bit 500kSPS 4-Channel SAR ADC With Bipolar Inputs Off 5V Supply

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Simulation model

### [ADS8688 IBIS Model](#)

SBAM199.ZIP (37 KB) - IBIS Model

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Simulation model

### [ADS868x TINA Model](#)

SBAM201.ZIP (1597 KB) - TINA-TI Reference Design

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Calculation tool

The analog engineer's calculator is designed to speed up many of the repetitive calculations that analog circuit design engineers use on a regular basis. This PC-based tool provides a graphical interface with a list of various common calculations ranging from setting operational-amplifier (...)

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Supported products & hardware

## Supported products & hardware

### Products

#### Precision op amps ( $V_{os} < 1\text{mV}$ )

[INA1620](#) — High-fidelity audio operational amplifier with integrated thin-film resistors and EMI filtering [OPA130](#) — Single, 1-MHz, 20-pA bias current, 530- $\mu\text{A}$  power, FET operational amplifier [OPA131](#) — Single, 4-MHz, 50-pA bias current, 750- $\mu\text{A}$  power, FET operational amplifier [OPA140](#) — Single-channel, 11-MHz, low-noise 36-V JFET precision operational amplifier with rail-to-rail output [OPA140A-DIE](#) — 11-MHz, low-noise 36-V JFET precision operational amplifier with rail-to-rail output [OPA145](#) — Single, 5.5-MHz, high slew rate, low-noise, low-power, RRO precision JFET operational amplifier [OPA177](#) — Precision Operational Amplifier [OPA180](#) — 0.1- $\mu\text{V}/^\circ\text{C}$  Drift, Low-Noise, Rail-to-Rail Output, 36-V, Zero-Drift Operational Amplifier [OPA180-Q1](#) — Automotive-Qualified 0.1- $\mu\text{V}/^\circ\text{C}$  Drift, Low-Noise, RRO, 36V, Zero-Drift Op Amp [OPA182](#) — Highest-precision, 36-V, 5-MHz, single, low-noise, zero-drift, MUX-friendly amplifier [OPA186](#) — Single, 24-V, low-power (90  $\mu\text{A}$ ) 5- $\mu\text{V}$ -offset zero-drift op amp with rail-to-rail input and output [OPA187](#) — Zero drift (10 $\mu\text{V}$ , 0.001 $\mu\text{V}/^\circ\text{C}$ ), MUX-friendly, low-noise, RRO, CMOS precision op amp [OPA188](#) — Precision, Low-Noise, Rail-to-Rail Output, 36V Zero-Drift Operational Amplifier [OPA188-Q1](#) — Automotive-Qualified Precision, Low-Noise, RRO, 36V, Zero-Drift Operational Amplifier [OPA189](#) — Single, 14-MHz, mux-friendly, low-noise, zero-drift, RRO, CMOS precision operational amplifier [OPA191](#) — Low-Power, Precision, 36-V, e-trim CMOS Amplifier [OPA192](#) — High-Voltage, Rail-to-Rail Input/Output, 5 $\mu\text{V}$ , 0.2 $\mu\text{V}/^\circ\text{C}$ , Precision Operational Amplifier [OPA192-Q1](#) — Automotive High-Voltage Rail-to-Rail Input/Output Precision Op Amp E-Trim™ Series [OPA196](#) — Single, 36-V, low power, all-purpose amplifier with mux-friendly input [OPA197](#) — Single, 36-V, precision, rail-to-rail input output, low offset voltage op amp [OPA197-Q1](#) — Single, automotive 36-V, precision, rail-to-rail input output, low offset voltage op amp [OPA202](#) — Low-noise (0.2  $\mu\text{VPP}$ , 9 nV/ $\sqrt{\text{Hz}}$ ) heavy-capacitive-drive (25 nF) super-beta precision op amp [OPA205](#) — Single, rail-to-rail bipolar precision e-trim™ op amp with low input bias current and low noise [OPA206](#) — Low-power (240  $\mu\text{A}$ ) low-noise (8 nV/ $\sqrt{\text{Hz}}$ ) precision e-trim™ op amp with super-beta inputs and OVP [OPA207](#) — Low power (350 $\mu\text{A}$ ), low noise (7.5nV/ $\sqrt{\text{Hz}}$ ), high precision (100 $\mu\text{V}$ , 0.2 $\mu\text{V}/^\circ\text{C}$ ), bipolar RRO op amp [OPA209](#) — Single, 2.2-nV/rHz, 18-MHz, precision, RRO, 36-V operational amplifier [OPA210](#) — 2.2-nV/ $\sqrt{\text{Hz}}$ , low-power, 36-V operational amplifier [OPA211](#) — 1.1nV/rHz Noise, Low-Power, Precision Operational Amplifier [OPA211-EP](#) — Enhanced Product 1.1nV/rHz Noise, Low Power, Precision Operational Amplifier [OPA211-HT](#) — High Temperature 1.1nV/rHz Noise, Low Power, Precision Operational Amplifier [OPA2130](#) — Dual, 1-MHz, 20-pA bias current, 530- $\mu\text{A}$  power, FET operational amplifier [OPA2131](#) — Dual, 4-MHz, 50-pA bias current, 750- $\mu\text{A}$  power, FET operational amplifier [OPA2140](#) — Dual-channel, 11-MHz, low-noise 36-V JFET precision operational amplifier with rail-to-rail output [OPA2145](#) — Dual, 5.5-MHz, high slew rate, low-noise, low-power, RRO precision JFET operational amplifier [OPA2156](#) — Low noise (3-nV/ $\sqrt{\text{Hz}}$  @10kHz), high speed (25-MHz, 40-V/ $\mu\text{s}$ ), CMOS precision RRIO dual op amp [OPA2180](#) — 0.1  $\mu\text{V}/^\circ\text{C}$  DRIFT, Low Noise, Rail-to-Rail Output, 36V Zero-Drift Op Amp [OPA2180-Q1](#) — Automotive-Qualified 0.1  $\mu\text{V}/^\circ\text{C}$  Drift, Low Noise, RRO, 36V, Zero-Drift Op Amp [OPA2182](#) — Industry's lowest offset drift (0.012  $\mu\text{V}/^\circ\text{C}$ , max), 5.7 nV/rHz, MUX-friendly 36V op amp [OPA2186](#) — Dual, 24-V, 90- $\mu\text{A}$  5- $\mu\text{V}$ -offset zero-drift operational amplifier with rail-to-rail input and output [OPA2187](#) — Zero-drift (10 $\mu\text{V}$ , 0.001 $\mu\text{V}/^\circ\text{C}$ ), MUX-friendly, low-noise, RRO, CMOS precision op amp (dual) [OPA2188](#) — 0.03 $\mu\text{V}/^\circ\text{C}$ , 6 $\mu\text{V}$  Vos, Low Noise, Rail-to-Rail Output, 36V Zero-Drift Operational Amplifier [OPA2188-Q1](#) — Automotive-Qualified 0.03 $\mu\text{V}/^\circ\text{C}$  Drift, 6 $\mu\text{V}$  Vos, Low-Noise, RRO, 36V, Zero-Drift Op Amp [OPA2189](#) — Dual, 14-MHz, MUX-friendly, low-noise, zero-drift, RRO, CMOS precision operational amplifier [OPA2191](#) — Low-power, 36-V, CMOS precision e-trim™ operational amplifier [OPA2192](#) — 36-V, Precision, RRIO, Low Offset Voltage, Low Input Bias Current Op Amp With e-trim [OPA2192-Q1](#) — Automotive 36-V, Precision, RRIO, Low Offset Voltage, Low Input Bias Current Op Amp With e-trim [OPA2196](#) — Dual, 36-V, low power, all-purpose amplifier with mux-friendly input [OPA2197](#) — Dual 36-V, precision, rail-to-rail input output, low offset voltage op amp [OPA2197-Q1](#) — Dual automotive 36-V, precision, rail-to-rail input output, low offset voltage op amp [OPA2202](#) — Low-noise (0.2  $\mu\text{VPP}$ , 9 nV/ $\sqrt{\text{Hz}}$ ), heavy-capacitive-drive (25 nF) dual super-beta precision op amp [OPA2205](#) — Dual, rail-to-rail bipolar precision e-trim™ op amp with low input bias current and low noise [OPA2206](#) — OVP  $\pm 40\text{-V}$ , low-power, low-noise, precision amplifier with e-trim™ and super beta input transistors [OPA2209](#) — Dual, 2.2-nV/rHz, 18-MHz, precision, RRO, 36-V operational amplifier [OPA2210](#) — Ultra-low noise (2.2-nV/ $\sqrt{\text{Hz}}$ ), super beta (0.3nA), high precision (5 $\mu\text{V}$ , 0.1 $\mu\text{V}/^\circ\text{C}$ ), 36-V, dual op amp 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high-speed (45 MHz and 150 V/ $\mu$ s), 36-V, low-noise (4 nV/ $\sqrt{\text{Hz}}$ ) RRO JFET operational amplifier [OPA317](#) — Low Offset, Rail-to-Rail I/O Operational Amplifier [OPA317-Q1](#) — Automotive-Qualified Operational Amplifier with Low-Offset, RRIO, and Low Current Consumption [OPA320](#) — Precision, zero-crossover, 20-MHz, 0.9-pA Ib, RRIO, CMOS operational amplifier [OPA320-Q1](#) — Automotive qualified, precision, zero-crossover, 20-MHz, 0.9-pA Ib, RRIO, CMOS operational amplifier [OPA325](#) — Low noise (10nV/rtHz), wide bandwidth (10MHz), low power (0.65mA), zero crossover op amp [OPA328](#) — Precision, zero-crossover, 50- $\mu$ V offset voltage, 40-MHz wide-bandwidth RRIO CMOS op amp [OPA330](#) — Single, 1.8-V, 35- $\mu$ A, micropower, precision, zero drift CMOS op amp [OPA333](#) — Micropower, 1.8-V, 17- $\mu$ A zero-drift CMOS precision operational amplifier [OPA333-Q1](#) — Automotive, micropower, 1.8-V, 17- $\mu$ A zero-drift CMOS precision operational amplifier [OPA333A-EP](#) — Enhanced-product, micropower, 1.8-V, 17- $\mu$ A zero-drift CMOS precision operational amplifier [OPA334](#) — Single 0.05uV/C max, single-supply CMOS operational amplifier with shutdown [OPA335](#) — Single 0.05uV/C max, single-supply CMOS operational amplifier [OPA336](#) — Single-Supply, MicroPower CMOS Operational Amplifiers MicroAmplifier™ Series [OPA336-EP](#) — Enhanced Product Single-Supply, Micropower Cmos Operational Amplifiers Microamplifier(Tm) [OPA340](#) — Single, single-supply, rail-to-rail, low power operational amplifier [OPA340-EP](#) — Enhanced Product Single-Supply, Rail-to-Rail Operational Amplifiers MicroAmplifier™ Series [OPA350](#) — Single, single-supply, rail-to-rail, high speed, low noise operational amplifier [OPA369](#) — Single, 1.8-V, 700-nA, zero-crossover rail-to-rail I/O operational amplifier [OPA37](#) — Ultra-low-noise (4.5-nV/ $\sqrt{\text{Hz}}$ ), 100- $\mu$ V offset, decompensated precision operational amplifier [OPA376](#) — Precision (0.025mV), low noise (7.5nV/rtHz), low quiescent current (760uA) op amp [OPA376-Q1](#) — Automotive Precision, Low Noise, Low Iq Operational Amplifier [OPA377](#) — Low-cost, low-noise, 5.5-MHz CMOS operational amplifier [OPA377-Q1](#) — Automotive Qualified, Low Noise, Low Voltage, Precision Operational Amplifier [OPA378](#) — Low-noise, 900-kHz, RRIO, precision operational amplifier, zero-drift series [OPA381](#) — Precision, Low Power, High-Speed Transimpedance Amplifier [OPA387](#) — Ultra-high precision (2  $\mu$ V), zero-drift (0.003  $\mu$ V/C), low-input-bias-current op amp (single) [OPA388](#) — Single, 10-MHz, CMOS, zero-drift, zero-crossover, true RRIO precision operational amplifier [OPA388-Q1](#) — Automotive qualified, wide bandwidth, zero drift, zero cross over, precision amplifier [OPA391](#) — Micropower, single, high-precision low-bias-current RRIO op amp with high speed-to-power ratio [OPA392](#) — Single, low-offset (10  $\mu$ V), low-noise (6 nV/rtHz) femptoamp-bias-current e-trim™ op amp [OPA396](#) — Single, micropower (24  $\mu$ A), low-offset (100  $\mu$ V), high speed-to-power ratio RRIO op amp [OPA397](#) — Single, low-offset (60  $\mu$ V), low-noise, low-bias-current RRIO e-trim™ operational amplifier [OPA3S328](#) — High-speed (40 MHz) high-precision (60  $\mu$ V) low-noise op amp with integrated gain switches [OPA404](#) — Quad High Speed Precision Difet® Operational Amplifier [OPA4140](#) — Quad-channel, 11-MHz, low-noise 36-V JFET precision operational amplifier with rail-to-rail output [OPA4180](#) — 0.1 uV/C Drift, Quad, Low Noise, Rail-to-Rail, 36V Zero Drift Op Amp [OPA4182](#) — 36-V, 5-MHz, quad, low-noise, zero-drift, MUX-friendly, precision op amp [OPA4186](#) — Quad, 24-V, low-power (90  $\mu$ A) 5- $\mu$ V-offset zero-drift op amp with rail-to-rail input and output [OPA4187](#) — Zero-drift (10 $\mu$ V, 0.001 $\mu$ V/°C), MUX-friendly, low-noise, RRO, CMOS quad precision op amp (quad) [OPA4188](#) — 0.03 $\mu$ V/C, Low Noise, Rail-to-Rail Output, 36V Zero-Drift Operational Amplifier [OPA4189](#) — Quad, 14-MHz, MUX-friendly, zero-drift, rail-to-rail-output, precision operational amplifier [OPA4191](#) — Quad, low-power, 36-V, precision, e-trim amplifier with RRIO [OPA4192](#) — Low-Noise, Low Quiescent Current, 36V RRI/O Precision Op Amps, E-Trim™ Series [OPA4196](#) — Quad, 36-V, low power, all-purpose amplifier with mux-friendly input [OPA4197](#) — Quad, 36-V, precision, rail-to-rail input output, low offset voltage op amp [OPA4197-Q1](#) — Automotive, quad channel, high precision, 36-V, 10-MHz, rail-to-rail input output op amp [OPA4202](#) — Low-noise (0.2  $\mu$ VPP, 9 nV/ $\sqrt{\text{Hz}}$ ), heavy-capacitive-drive (25 nF) quad super-beta precision op amp [OPA4205](#) — Quad, rail-to-rail bipolar precision e-trim™ op amp with low input bias current and low noise [OPA4206](#) — Input-overvoltage-protected, low-power, low-noise four-channel op amp with super-beta inputs [OPA4209](#) — Quad, 2.2-nV/rtHz, 18-MHz, precision, RRO, 36-V operational amplifier [OPA4227](#) — Quad high precision, low noise operational amplifiers [OPA4228](#) — Quad high precision, wide bandwidth, low noise operational amplifiers [OPA4241](#) — Quad, 5V single-supply, micro power operational amplifiers [OPA4251](#) — Quad, 15V single-supply, micro power operational amplifiers [OPA4277](#) — Quad, low-offset (10  $\mu$ V), precision op amp [OPA4277-EP](#) — Enhanced Products High Precision Operational Amplifiers [OPA4277-SP](#) — High-precision operational amplifier [OPA4317](#) — Quad, Low Offset, Rail-to-Rail I/O Operational Amplifier [OPA4325](#) — Low noise (10nV/rtHz), wide bandwidth (10MHz), low power (0.65mA), quad zero crossover op amp [OPA4330](#) — Quad, 1.8-V, 35- $\mu$ A, micropower, precision, zero drift CMOS op amp [OPA4336](#) — Quad Single-Supply, MicroPower CMOS Operational Amplifiers MicroAmplifier™ Series [OPA4340](#) — Quad, single-supply, rail-to-rail, low power operational amplifier [OPA4350](#) — Quad, single-supply, rail-to-rail, high speed, low noise operational amplifier [OPA4350-DIE](#) — High-Speed, Single-Supply, Rail-to-Rail Operational Amplifiers MicroAmplifier™ Series [OPA4376](#) — Quad precision, low-noise, low quiescent

current operational amplifier [OPA4376-Q1](#) — Automotive-Qualified Precision Op Amp With E-Trim, Low Quiescent Current and Low Noise  
[OPA4377](#) — Quad low-cost, low-noise, 5.5-MHz CMOS operational amplifier [OPA4377-Q1](#) — Automotive-Qualified CMOS Operational Amplifier With Low Noise and 5.5MHz GBW [OPA4387](#) — Ultra-high precision (2  $\mu$ V), zero-drift (0.003  $\mu$ V/C), low-input-bias-current op amp (quad) [OPA4388](#) — Quad, 10-MHz, CMOS, zero-drift, zero-crossover, true RRIO precision operational amplifier [OPA4727](#) — e-trim™ 20MHz, High Precision CMOS Operational Amplifier [OPA4H014-SEP](#) — Radiation-tolerant, 11-MHz, low-noise, precision rail-to-rail output JFET amplifier [OPA593](#) — 85-V, 100- $\mu$ V wide-bandwidth (10 MHz) high-output-current (250 mA) precision operational amplifier [OPA627](#) — 55V/ $\mu$ S, High-Speed, 0.8 $\mu$ V/°C Drift Max, Precision Operational Amplifier [OPA627-DIE](#) — OPA627-DIE Precision High-Speed Difet Operational Amplifier [OPA637](#) — Precision High-Speed Difet® Operational Amplifiers [OPA727](#) — Single high precision, low noise operational amplifiers [OPA728](#) — 20-MHz, 2.5-fA/ $\sqrt$ Hz noise, high precision operational amplifiers [OPA734](#) — Single 0.05-uV/degC (max) single-supply CMOS op amp, zero-drift series with shutdown [OPA735](#) — Single 0.05uV/degC (max) single-supply CMOS operational amplifier, zero-drift series [OPA827](#) — Low-noise, high-precision, JFET-input operational amplifier [OPA828](#) — High-speed (45 MHz and 150 V/ $\mu$ s), 36-V, low-noise (4 nV/ $\sqrt$ Hz) RRO JFET operational amplifier [OPA928](#) — High-voltage femtoampere-input-bias precision e-trim™ operational amplifier with RRIO

#### General-purpose op amps

[OPA137](#) — Single, 36-V, 1-MHz operational amplifier with rail-to-rail input to V+ [OPA141](#) — Single, 10-MHz, single supply, low-noise, JFET precision amplifier [OPA170](#) — Single, 36-V, 1.2-MHz, low-power operational amplifier [OPA170-DIE](#) — Single-Supply, Low-Power Operational Amplifier [OPA170-EP](#) — Enhanced product, single, 36-V, 1.2-MHz, low-power operational amplifier [OPA170-Q1](#) — Automotive-grade, single, 36-V, 1.2-MHz, low-power operational amplifier [OPA171](#) — Single, 36-V, 3-MHz, low-power operational amplifier [OPA171-Q1](#) — Automotive-grade, single, 36-V, 3-MHz, low-power operational amplifier [OPA172](#) — Single, 36-V, 10-MHz, low-power operational amplifier [OPA2107](#) — Dual, 30-V, 4.5-MHz operational amplifier [OPA2137](#) — Dual, 36-V, 1-MHz operational amplifier [OPA2141](#) — Dual, 10-MHz, single supply, low-noise, JFET precision amplifier [OPA2170](#) — Dual, 36-V, 1.2-MHz, low-power operational amplifier [OPA2170-Q1](#) — Automotive-grade, dual, 36-V, 1.2-MHz, low-power operational amplifier [OPA2171](#) — Dual, 36-V, 3-MHz, low-power operational amplifier [OPA2171-EP](#) — Enhanced product, dual, 36-V, 3-MHz, low-power operational amplifier [OPA2171-Q1](#) — Automotive-grade, dual, 36-V, 3-MHz, low-power operational amplifier [OPA2172](#) — Dual, 36-V, 10-MHz, low-power operational amplifier [OPA2172-Q1](#) — Automotive-grade, dual, 36-V, 10-MHz, low-power operational amplifier [OPA2244](#) — Dual, 36-V, 430-kHz, low-power operational amplifier [OPA2310](#) — Dual-channel, 5.5-V, 3-MHz high-output-current (150-mA) fast-shutdown (1- $\mu$ s) operational amplifier [OPA2313](#) — Dual, 5.5-V, 1-MHz, low quiescent current (50- $\mu$ A), RRIO operational amplifier [OPA2313-Q1](#) — Automotive-grade, dual, 5.5-V, 1-MHz, low quiescent current (50- $\mu$ A), RRIO operational amplifier [OPA2314](#) — Dual, 5.5-V, 3-MHz, 1.8-V min supply, low noise (14-nV/ $\sqrt$ Hz) operational amplifier [OPA2314-EP](#) — Enhanced product, dual, 5.5-V, 3-MHz, RRIO operational amplifier [OPA2314-Q1](#) — Automotive-grade, dual, 5.5-V, 3-MHz, 1.8-V min supply, low noise (14-nV/ $\sqrt$ Hz) operational amplifier [OPA2316](#) — Dual, 5.5-V, 10-MHz, low noise (11-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA2316-Q1](#) — Automotive-grade, dual, 5.5-V, 10-MHz, low noise (11-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA2322](#) — Dual, 5.5-V, 20-MHz, low noise (8.5-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA2322-Q1](#) — Automotive-grade, dual, 5.5-V, 20-MHz, low noise (8.5-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA2323](#) — Dual, 5.5-V, 20-MHz, zero-cross low-noise (6 nV/ $\sqrt$ Hz) RRIO operational amplifier [OPA2337](#) — Dual, 5.5-V, 3-MHz, RRO operational amplifier [OPA2338](#) — Dual, 5.5-V, 12.5-MHz, RRO operational amplifier [OPA2341](#) — Dual, 5.5-V, 5.5-MHz, RRIO operational amplifier with shutdown [OPA2342](#) — Dual, 5.5-V, 1-MHz, low bias current (0.2-pA), RRIO operational amplifier [OPA2343](#) — Dual, 5.5-V, 5.5-MHz, RRIO operational amplifier [OPA2344](#) — Dual, 5.5-V, 1-MHz, 1-mV offset, RRIO operational amplifier [OPA2345](#) — Dual, 5.5-V, 3-MHz, 1-mV offset, RRIO operational amplifier [OPA2347](#) — Dual, 5.5-V, 350-kHz, low quiescent current (20- $\mu$ A), RRIO operational amplifier [OPA2348](#) — Dual, 5.5-V, 1-MHz, low quiescent current (45- $\mu$ A), RRIO operational amplifier [OPA2348-Q1](#) — Automotive-grade, dual, 5.5-V, 1-MHz, low quiescent current (45- $\mu$ A), RRIO operational amplifier [OPA2349](#) — Dual, 5.5-V, 70-kHz, low quiescent current (1- $\mu$ A), RRIO operational amplifier [OPA2353](#) — Dual, 5.5-V, 44-MHz, low noise (7-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA2363](#) — Dual, 5.5-V, 7-MHz, RRIO operational amplifier with shutdown [OPA2364](#) — Dual, 5.5-V, 7-MHz, RRIO operational amplifier [OPA2373](#) — Dual, 5.5-V, 6.5-MHz, RRIO operational amplifier with shutdown [OPA2374](#) — Dual, 5.5-V, 6.5-MHz, RRIO operational amplifier [OPA2375](#) — Dual, 5.5-V, 10-MHz, low noise (4.6-nV/ $\sqrt$ Hz), RRO operational amplifier [OPA2379](#) — Dual, 5.5-V, 90-kHz, low quiescent current (2.9- $\mu$ A), RRIO operational amplifier [OPA244](#) — Single, 36-V, 430-kHz, low-power operational amplifier [OPA2703](#) — Dual, 12-V, 1-MHz operational amplifier [OPA2704](#) — Dual, 12-V, 3-MHz operational amplifier [OPA2705](#) — Dual, 12-V, 1-MHz, low-power, low-offset operational amplifier [OPA2725](#) — Dual, 12-V, 20-MHz, low-power, low-offset operational amplifier [OPA2726](#) — Dual, 12-V, 20-MHz, low-power operational amplifier [OPA2743](#) — Dual, 12-V, 7-MHz operational amplifier [OPA2990](#) — Dual, 40-V, 1.1-MHz, low-power operational amplifier [OPA2991](#) — Dual, 40-V, 4.5-MHz, low-power operational amplifier [OPA2991-Q1](#) — Automotive, dual, 40-V 4.5-MHz low-power operational amplifier [OPA2992](#) — Dual, 40-V, 10.6-MHz, rail-to-rail input and output low-offset-voltage low-noise op amp [OPA2992-Q1](#) — Automotive, dual, 40-V, 10-MHz rail-to-rail input and output low-noise operational amplifier [OPA2994](#) — Dual, 32V, 24MHz RRIO high-output-current (125mA) op amp with unlimited capacitance load drive [OPA2994-Q1](#) — Automotive, dual, 24-V, 25-MHz high-output-current (150 mA) operational amplifier [OPA310](#) — Single, 5.5-V, 3-MHz high-output-current (150 mA) fast-shutdown (1  $\mu$ s) operational amplifier [OPA310-Q1](#) — Automotive, single, 5.5-V, 3-MHz high-output-current (150 mA) fast-shutdown operational amplifier [OPA313](#) — Single, 5.5-V, 1-MHz, low quiescent current (50- $\mu$ A), RRIO operational amplifier [OPA314](#) — Single, 5.5-V, 3-MHz, low noise (4.6-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA314-Q1](#) — Automotive-grade, single, 5.5-V, 3-MHz, low noise (4.6-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA316](#) — Single, 5.5-V, 10-MHz, 50-mA output current, low noise (11-nV/ $\sqrt$ Hz), RRIO operational amplifier [OPA316-Q1](#) — Automotive-grade, single, 5.5-V, 10-MHz, 50-mA output current, low noise (11-nV/ $\sqrt$ Hz), RRIO op amp [OPA322](#) — Single, 5.5-V, 20-MHz, 65-mA output current, low noise (8.5-nV/ $\sqrt$ Hz) operational amplifier [OPA322-Q1](#) — Automotive-grade, single, 5.5-V, 20-MHz, 65-mA output current, low noise (8.5-nV/ $\sqrt$ Hz) op amp [OPA323](#) — Single, 5.5-V, 20-MHz, zero-cross low-noise (6 nV/ $\sqrt$ Hz) RRIO operational amplifier [OPA337](#) — Single, 5.5-V, 3-MHz, RRO operational amplifier [OPA338](#) — Single, 5.5-V, 62.5-MHz, RRO operational amplifier [OPA341](#) — Single, 5.5-V, 5.5-MHz, extended temp, RRIO operational amplifier with shutdown [OPA342](#) — Single, 5.5-V, 1-MHz, low bias current (0.2-pA), RRIO operational amplifier [OPA343](#) — Single, 5.5-V, 5.5-MHz, RRIO operational amplifier [OPA344](#) — Single, 5.5-V, 1-MHz, 1-mV offset, RRIO operational amplifier [OPA345](#) — Single, 5.5-V, 3-MHz, RRIO



operational amplifier [OPA347](#) — Single, 5.5-V, 350-kHz, low quiescent current (20- $\mu$ A), RRIO operational amplifier [OPA348](#) — Single, 5.5-V, 1-MHz, low quiescent current (45- $\mu$ A), RRIO operational amplifier [OPA348-Q1](#) — Automotive-grade, single, 5.5-V, 1-MHz, low quiescent current (45- $\mu$ A), RRIO operational amplifier [OPA349](#) — Single, 5.5-V, 70-kHz, low quiescent current (1- $\mu$ A), RRIO operational amplifier [OPA353](#) — Single, 5.5-V, 44-MHz, low noise (7-nV/ $\sqrt{\text{Hz}}$ ), RRIO operational amplifier [OPA363](#) — Single, 5.5-V, 7-MHz, RRIO operational amplifier with shutdown [OPA364](#) — Single, 5.5-V, 7-MHz, RRIO operational amplifier [OPA373](#) — Single, 5.5-V, 6.5-MHz, RRIO operational amplifier with shutdown [OPA374](#) — Single, 5.5-V, 6.5-MHz, RRIO operational amplifier [OPA375](#) — OPAx375, 500uV, 10-MHz, Low Broadband Noise, RRO, Operational Amplifier [OPA379](#) — Single, 5.5-V, 90-kHz, low quiescent current (2.9- $\mu$ A), RRIO operational amplifier [OPA4130](#) — Quad, low bias current, low-noise, precision difet operational amplifier [OPA4131](#) — Quad, 1-MHz, 20-pA bias current, 530- $\mu$ A power, FET operational amplifier [OPA4137](#) — Quad, 36-V, 1-MHz, RRI operational amplifier [OPA4141](#) — Quad, 10-MHz, single supply, low-noise, JFET precision amplifier [OPA4170](#) — Quad, 36-V, 1.2-MHz, low-power operational amplifier [OPA4170-Q1](#) — Automotive-grade, quad, 36-V, 1.2-MHz, low-power operational amplifier [OPA4171](#) — Quad, 36-V, 3-MHz, low-power operational amplifier [OPA4171-Q1](#) — Automotive-grade, quad, 36-V, 3-MHz, low-power operational amplifier [OPA4172](#) — Quad, 36-V, 10-MHz, low-power operational amplifier [OPA4172-Q1](#) — Automotive-grade, quad, 36-V, 10-MHz, low-power operational amplifier [OPA4243](#) — Quad, 36-V, 430-kHz operational amplifier [OPA4244](#) — Quad, 36-V, 430-kHz, low-offset operational amplifier [OPA4310](#) — Quad, 5.5-V, 3-MHz high-output-current (150 mA) fast-shutdown (1  $\mu$ s) operational amplifier [OPA4313](#) — Quad, 5.5-V, 1-MHz, low quiescent current (50- $\mu$ A), RRIO operational amplifier [OPA4314](#) — Quad, 5.5-V, 3-MHz, low noise (4.6-nV/ $\sqrt{\text{Hz}}$ ), RRIO operational amplifier [OPA4314-Q1](#) — Automotive-grade, quad, 5.5-V, 3-MHz, low noise (4.6-nV/ $\sqrt{\text{Hz}}$ ), RRIO operational amplifier [OPA4316](#) — Quad, 5.5-V, 10-MHz, 50-mA output current, low noise (11-nV/ $\sqrt{\text{Hz}}$ ), RRIO operational amplifier [OPA4316-Q1](#) — Automotive-grade, quad, 5.5-V, 10-MHz, 50-mA output current, low noise (11-nV/ $\sqrt{\text{Hz}}$ ), RRIO op amp [OPA4322](#) — Quad, 5.5-V, 20-MHz, 65-mA output current, low noise (8.5-nV/ $\sqrt{\text{Hz}}$ ), RRIO operational amplifier [OPA4322-Q1](#) — Automotive-grade, quad, 5.5-V, 20-MHz, 65-mA output current, low noise (8.5-nV/ $\sqrt{\text{Hz}}$ ), RRIO op amp [OPA4323](#) — Quad, 5.5-V, 20-MHz, zero-cross low-noise (6 nV/ $\sqrt{\text{Hz}}$ ) RRIO operational amplifier [OPA4342](#) — Quad, 5.5-V, 1-MHz, low bias current (0.2-pA), RRIO operational amplifier [OPA4343](#) — Quad, 5.5-V, 5.5-MHz, RRIO operational amplifier [OPA4344](#) — Quad, 5.5-V, 1-MHz, 1-mV offset, RRIO operational amplifier [OPA4345](#) — Quad, 5.5-V, 3-MHz, 1-mV offset, RRIO operational amplifier [OPA4347](#) — Quad, 5.5-V, 350-kHz, low quiescent current (20- $\mu$ A), RRIO operational amplifier [OPA4348](#) — Quad, 5.5-V, 1-MHz, low quiescent current (45- $\mu$ A), RRIO operational amplifier [OPA4348-Q1](#) — Automotive-grade, quad, 5.5-V, 1-MHz, low quiescent current (45- $\mu$ A), RRIO operational amplifier [OPA4353](#) — Quad, 5.5-V, 44-MHz, low noise (7-nV/ $\sqrt{\text{Hz}}$ ) operational amplifier [OPA4364](#) — Quad, 5.5-V, 7-MHz, RRIO operational amplifier [OPA4364-Q1](#) — Automotive-grade, quad, 5.5-V, 7-MHz, RRIO operational amplifier [OPA4374](#) — Quad, 5.5-V, 6.5-MHz, RRIO operational amplifier [OPA4379](#) — Quad, 5.5-V, 90-kHz, low quiescent current (2.9- $\mu$ A), RRIO operational amplifier [OPA4703](#) — Quad, 12-V, 1-MHz, low-offset operational amplifier [OPA4704](#) — Quad, 12-V, 3-MHz operational amplifier [OPA4705](#) — Quad, 12-V, 1-MHz operational amplifier [OPA4743](#) — Quad, 12-V, 7-MHz operational amplifier [OPA4990](#) — Quad, 40-V 1.1-MHz low-power (0.12 mA) operational amplifier [OPA4990-Q1](#) — Automotive, quad, 40-V 1.1-MHz low-power (0.12 mA) operational amplifier [OPA4991](#) — Quad, 40-V, 4.5-MHz, low-power operational amplifier [OPA4991-EP](#) — Enhanced-product, quad, 40-V 4.5-MHz rail-to-rail input and output operational amplifier [OPA4991-Q1](#) — Automotive, quad, 40-V, 4.5-MHz, low-power operational amplifier [OPA4992](#) — Quad, 40-V, 10.6-MHz, rail-to-rail input/output, low-offset-voltage, low-noise op amp [OPA4992-Q1](#) — Automotive, quad, 40-V, 10.6-MHz, rail-to-rail input and output low-offset-voltage low-noise op amp [OPA4H199-SEP](#) — Space-enhanced-product, quad, 40-V 4.5-MHz rail-to-rail input and output operational amplifier [OPA602](#) — High-Speed Precision Difet® Operational Amplifier [OPA703](#) — Single, 12-V, 1-MHz, low-offset operational amplifier [OPA704](#) — Single, 12-V, 3-MHz operational amplifier [OPA705](#) — Single, 12-V, 1-MHz operational amplifier [OPA725](#) — Single, 12-V, 20-MHz operational amplifier [OPA726](#) — Single, 12-V, 20-MHz operational amplifier with shutdown [OPA743](#) — Single, 12-V, 7-MHz operational amplifier [OPA990](#) — Single, 40-V, 1.1-MHz, low-power operational amplifier [OPA991](#) — Single, 40-V 4.5-MHz low-power operational amplifier [OPA991-Q1](#) — Automotive, single, 40-V 4.5-MHz low-power operational amplifier [OPA992](#) — Single, 40-V, 10.6-MHz, rail-to-rail input/output, low-offset-voltage, low-noise op amp [OPA992-Q1](#) — Automotive, single, 40-V, 10-MHz rail-to-rail input and output low-noise operational amplifier [OPA994](#) — Single, 32V, 24MHz RRIO high-output-current (125mA) op amp with unlimited capacitance load drive

#### Audio op amps

[OPA132](#) — Single SoundPlus™ 8-MHz, 5-pA, High Performance Audio Operational Amplifiers with FET inputs [OPA134](#) — Single SoundPlus™ 8-MHz, 50-pA, high-performance audio op amp with FET inputs [OPA1602](#) — Dual, SoundPlus™ high-performance, bipolar-input audio op amp [OPA1604](#) — Quad, SoundPlus High-Performance, Bipolar-Input Audio Op Amp [OPA1611](#) — 1.1nV/ $\sqrt{\text{Hz}}$  Noise, Low Power, Precision Operational Amplifier [OPA1612](#) — SoundPlus™ Audio Operational Amplifier with 1.1nV/ $\sqrt{\text{Hz}}$  Noise, Low THD and Precision [OPA1612-Q1](#) — Automotive, 1.1nV/ $\sqrt{\text{Hz}}$  Noise, Low Power, Precision Audio Operational Amplifier [OPA1622](#) — SoundPlus™ Audio Operational Amplifier with High Performance, Low THD+N and Bipolar Input [OPA1632](#) — Fully Differential I/O Audio Amplifier [OPA1633](#) — Ultra-low-distortion 195-MHz fully-differential audio amplifier [OPA1637](#) — High-fidelity, high-voltage (36-V), low-noise (3.7-nV/rHz) Burr-Brown™ audio fully-differential amp [OPA1641](#) — Single Sound-Plus High-Performance, JFET-Input Audio OpAmps [OPA1641-Q1](#) — Single Automotive Sound-Plus High-Performance, JFET-Input Audio Op Amps [OPA1642](#) — Dual SoundPlus™ high-performance, JFET-input audio op amp [OPA1642-Q1](#) — Dual automotive soundplus™ high-performance, JFET-input audio op amps [OPA1644](#) — OPA1641/1642/1644 SoundPLUS™ High-Performance, JFET-Input Audio OpAmps [OPA1652](#) — Dual SoundPlus™ low-noise & distortion, general-purpose, FET-input audio op amp [OPA1654](#) — Quad sound plus low noise and distortion, general-purpose, FET-input audio op amps [OPA1655](#) — SoundPlus™ ultra-low noise and distortion, Burr-Brown™ single audio operational amplifier [OPA1656](#) — SoundPlus™ ultra-low noise and distortion, Burr-Brown™ audio operational amplifier [OPA1662](#) — Dual SoundPlus™ low noise (3.3nV/rHz) and distortion (-124dB), wide bandwidth (22MHz) audio op amp [OPA1662-Q1](#) — Automotive Sound Plus, Low-Power, Low-Noise and Distortion, Audio Op Amp [OPA1664](#) — Quad sound plus low-power, low-noise and distortion, audio op amps [OPA1671](#) — Single supply, wide bandwidth (13MHz), low noise (7nV/rHz), RRIO audio op amp [OPA1677](#) — Low-distortion (-120 dB) low-noise (4.5 nV/rHz) single audio operational amplifier [OPA1678](#) — Low distortion (-120 dB), low noise (4.5nV/rHz), dual audio op amp [OPA1679](#) — Low distortion (-120 dB), low noise (4.5nV/rHz), quad audio op amp [OPA1679-Q1](#) — Automotive quad-channel, low-noise 4.5-nV/rHz, low-distortion 120-dB, audio operational

amplifier [OPA1688](#) — 36V, 10MHz, Low Distortion High Drive Rail-to-Rail Output Audio Operational Amplifiers [OPA1692](#) — SoundPlus™ Low-Power, Low-Noise, High-Performance Dual Bipolar-Input Audio Op Amp [OPA2132](#) — Dual, SoundPlus™ 8-MHz, 5-pA, High Performance Audio Operational Amplifiers with FET inputs [OPA2134](#) — SoundPlus™ Audio Operational Amplifier with Low Distortion, Low Noise and Precision [OPA4132](#) — Quad, 4-MHz, 50-pA bias current, 750-μA power, FET operational amplifier [OPA4134](#) — Quad SoundPlus™ High Performance Audio Operational Amplifiers [OPA604](#) — FET-Input, Audio Operational Amplifier

#### Transimpedance amplifiers

[OPA1S2384](#) — 250-MHz, CMOS Transimpedance Amplifier (TIA) with Integrated Switch and Buffer [OPA1S2385](#) — 250-MHz, CMOS Transimpedance Amplifier (TIA) with Integrated active low Switch and Buffer [OPA2380](#) — OPA2380 - Dual, High-Speed Precision Transimpedance Amplifier [OPA380](#) — Single, High-Speed Precision Transimpedance Amplifier [OPA3S2859](#) — Dual-channel, 900-MHz 2.2-nV/√Hz programmable-gain transimpedance amplifier [OPA3S2859-EP](#) — Enhanced product, dual-channel, 900-MHz, 2.2-nV/√Hz, programmable gain transimpedance amplifier [OPA857](#) — Ultralow-Noise, Wideband, Pseudo-Differential Output Transimpedance Amplifier [OPA857-DIE](#) — Low-Noise, Wideband, Selectable-gain, Transimpedance Amp

#### High-speed op amps (GBW ≥ 50 MHz)

[OPA2300](#) — Low-Noise, High-Speed, 16-Bit Accurate CMOS Operational Amplifier with digital shutdown [OPA2301](#) — Low-Noise, High-Speed, 16-Bit Accurate CMOS Operational Amplifier [OPA2354](#) — 250MHz, Rail-to-Rail I/O, CMOS Dual Operational Amplifier [OPA2354A-Q1](#) — Automotive 250MHz, Rail-to-Rail I/O, CMOS Dual Operational Amplifier [OPA2355](#) — 2.5V, 200MHz GBW, CMOS Dual Op Amp With Shutdown [OPA2356](#) — 2.5V, 200MHz GBW, CMOS Dual Op Amp [OPA2356-EP](#) — Enhanced product 2.5 V, 200 MHz GBW, CMOS dual op amp [OPA2357](#) — 250MHz, Rail-to-Rail I/O, Dual CMOS Operational Amplifier w/Shutdown [OPA2365](#) — 2.2V, 50MHz, Low-Noise Single-Supply Rail-to-Rail Operational Amplifiers [OPA2365-Q1](#) — Automotive 2.2V, 50MHz, Low-Noise Single-Supply Rail-to-Rail Operational Amplifiers [OPA2607](#) — Dual-channel, low-power, precision, 50-MHz decompensated CMOS op amp [OPA2607-Q1](#) — Automotive, dual-channel, 50-MHz decompensated rail-to-rail output CMOS op amp [OPA2613](#) — Dual Wideband, High-Output Current, Operational Amplifier with Current Limit [OPA2614](#) — Dual, High Gain Bandwidth, High Output Current, Operational Amplifier with Current Limit [OPA2625](#) — High-Bandwidth, High-Precision, Low THD+N, 16-Bit and 18-Bit ADC Drivers with shutdown [OPA2626](#) — High-Bandwidth, High-Precision, Low THD+N, 16-Bit and 18-Bit ADC Drivers [OPA2652](#) — SpeedPlus™ Dual, 700MHz, Voltage-Feedback Operational Amplifier [OPA2673](#) — Dual, Wideband, High Output Current Amplifier and PLC Line Driver with Active Off-line Control [OPA2674](#) — Dual, Wideband, High Output Current Amplifier and DSL/PLC Line Driver with Current Limit [OPA2675](#) — Dual-channel, wideband high-power-output current-feedback amplifier [OPA2677](#) — SpeedPlus™ Dual, Wideband, High Output Current Operational Amplifier and DSL/PLC Line Driver [OPA2683](#) — Very-low-power dual-current feedback operational amplifier [OPA2684](#) — Dual, Low Power, Current Feedback Operational Amplifier [OPA2690](#) — Dual Wideband, Voltage Feedback Operational Amplifier with Disable [OPA2691](#) — Dual wideband current feedback operational amplifier with disable [OPA2694](#) — Dual, Wideband, Low Power, Current Feedback Operational Amplifier [OPA2695](#) — Ultra-Wideband, Current-Feedback Operational Amplifier with Disable [OPA2810](#) — Dual channel, high performance, 27 V, 105 MHz, RRIO FET input op amp [OPA2822](#) — Dual, wideband low-noise SpeedPlus™ operational amplifier [OPA2830](#) — Dual, Low-Power, Single-Supply Wideband Operational Amplifier [OPA2832](#) — Dual, Low Power, High-Speed, Fixed Gain Operational Amplifier [OPA2834](#) — Ultra-low power, 50MHz rail-to-rail out, negative rail in, voltage-feedback op amp [OPA2835](#) — Dual, Ultra Low Power, Rail to Rail Out, Negative Rail In, VFB Amplifier [OPA2835-DIE](#) — OPA2835-DIE ULTRA LOW-POWER, RAIL-TO-RAIL OUT, NEGATIVE RAIL IN, VFB OP AMP [OPA2836](#) — Dual, Very Low Power, Rail to Rail out, Negative Rail in, VFB Op Amp [OPA2836-Q1](#) — Automotive, Dual, Very Low Power, Rail to Rail output, VFB Op Amp [OPA2837](#) — Dual, Low-Power, Precision, Rail-to-Rail Output, 105MHz, Voltage Feedback Amplifier [OPA2846](#) — Dual, Wideband, Low-Noise, Voltage-Feedback Operational Amplifier [OPA2863](#) — Dual, low-power, 110-MHz, 12-V, rail-to-rail input and output (RRIO) voltage-feedback amplifier [OPA2863-Q1](#) — Automotive, dual, low-power, 110-MHz, 12-V RRIO voltage-feedback amplifier [OPA2863A](#) — Dual, high-precision, low-power, 105-MHz, 12-V RRIO voltage-feedback amplifier [OPA2889](#) — Dual 115MHz, Low Power, Wideband, Voltage Feedback Operational Amplifier with Disable [OPA2890](#) — Dual 250MHz, Low Power, Wideband, Voltage Feedback Operational Amplifier with Disable [OPA300](#) — High Speed, Low Noise, Single Supply CMOS Operational Amplifier [OPA301](#) — Low-Noise, High-Speed, 16-Bit Accurate CMOS Operational Amplifier [OPA3355](#) — 2.5V, 200MHz GBW, CMOS Triple Op Amp With Shutdown [OPA354](#) — 250MHz, Rail-to-Rail I/O, CMOS Single Operational Amplifier [OPA354A-Q1](#) — Automotive 250MHz, Rail-to-Rail I/O, CMOS Single Operational Amplifier [OPA355](#) — 2.5V, 200MHz GBW, CMOS Single Op Amp With Shutdown [OPA355-Q1](#) — Automotive 2.5V, 200MHz GBW, CMOS Single Op Amp With Shutdown [OPA356](#) — 2.5V, 200MHz GBW, CMOS Single Op Amp [OPA356-Q1](#) — Automotive Catalog 2.5V, 200MHz GBW, CMOS Single Op Amp [OPA357](#) — 250MHz, Rail-to-Rail I/O, Single CMOS Operational Amplifier w/Shutdown [OPA358](#) — 3V Single Supply 80MHz High-Speed Op Amp in SC70 [OPA365](#) — 2.2V, 50MHz, Low-Noise, Single-Supply Rail-to-Rail Operational Amplifier [OPA365-EP](#) — Enhanced Product 2.2V, 50MHz, Low-Noise, Single-Supply Rail-to-Rail Op Amp [OPA365-Q1](#) — Automotive 2.2V, 50MHz, Low-Noise, Single-Supply Rail-to-Rail Operational Amplifier [OPA3684](#) — Low-Power, Triple Current Feedback Operational Amplifier with Disable [OPA3690](#) — Triple, Wideband, Voltage-Feedback Operational Amplifier with Disable [OPA3691](#) — Triple Wideband Current Feedback Operational Amplifier with Disable [OPA3695](#) — Ultra-Wideband, Current-Feedback Operational Amplifier with Disable [OPA3832](#) — 250MHz triple, low-power, high-speed, fixed-gain operational amplifier [OPA4354](#) — 250 MHz, rail-to-rail I/O, CMOS quad operational amplifier [OPA4354-Q1](#) — Automotive, 250MHz, Rail-to-Rail I/O, CMOS Quad Operational Amplifier [OPA4684](#) — Quad, Low-Power, Current Feedback Operational Amplifier [OPA4684M](#) — Military Quad, Low-Power, Current Feedback Operational Amplifier [OPA4820](#) — Quad, Unity-Gain, Low-Noise, Voltage-Feedback Operational Amplifier [OPA4830](#) — Quad, Low-Power, Single-Supply, Wideband Operational Amplifier [OPA4863](#) — Quad, low-power, 110-MHz RRIO voltage-feedback amplifier [OPA4872-EP](#) — Enhanced Product 4:1 High-Speed Multiplexer [OPA607](#) — Low power, precision, 50 MHz decompensated CMOS operational amplifier for cost sensitive systems [OPA607-Q1](#) — Automotive, 50-MHz, low-power, gain of 6-V/V stable, rail-to-rail output CMOS operational amplifier [OPA625](#) — High Bandwidth, High Precision, Low Noise & Distortion Amplifier SAR ADC Driver with Power Scaling [OPA653](#) — 500MHz, Fixed Gain of +2V/V, JFET input amplifier [OPA656](#) — Wideband, Unity Gain Stable FET-



Input Operational Amplifier [OPA656-DIE](#) — Wideband, Unity Gain Stable FET-Input Operational Amplifier [OPA657](#) — 1.6GHz, Low Noise, FET-Input Operational Amplifier [OPA657-DIE](#) — Bare-DIE 1.6-GHz, Low-Noise, FET-Input Operational Amplifier [OPA659](#) — 650MHz unity gain stable JFET input amplifier [OPA683](#) — Very-low-power current-feedback amplifier with disable [OPA684](#) — Low-Power, Current Feedback Operational Amplifier With Disable [OPA688M](#) — Military Speedplus unity gain stable, wideband voltage limiting amplifier [OPA689M](#) — Military wideband, high gain voltage limiting amplifier [OPA690](#) — Wideband voltage-feedback operational amplifier with disable [OPA691](#) — Wideband Current Feedback Operational Amplifier with Disable [OPA692](#) — Wideband, Fixed Gain Buffer Amplifier with Disable [OPA694](#) — WideBand, Low-Power, Current Feedback Amplifier [OPA695](#) — Ultra-Wideband, Current-Feedback Operational Amplifier with Disable [OPA698](#) — Unity Gain Stable, Wideband Voltage Limiting Amplifier [OPA698M](#) — Unity-Gain-Stable Wideband Voltage Limiting Amplifier [OPA699](#) — OPA699: Wideband, High Gain Voltage Limiting Amplifier [OPA699M](#) — Gain +4 Stable Wideband Voltage Limiting Amplifier [OPA810](#) — Single Channel, High Performance, 27 V, 140 MHz, RRIO FET Input Op Amp [OPA814](#) — 600-MHz, high-precision unity-gain-stable FET-input operational amplifier [OPA817](#) — 800-MHz, high-precision unity-gain-stable FET-input operational amplifier [OPA818](#) — 2.7-GHz, 13-V, decompensated 7-V/V, FET-input operational amplifier [OPA820](#) — Unity gain stable, low-noise, voltage feedback operational amplifier [OPA830](#) — Low-Power, Single-Supply Operational Amplifier [OPA830-EP](#) — Low-Power, Single-Supply, Wideband Operational Amplifier [OPA832](#) — Low-Power, Single-Supply, Fixed-Gain Video Buffer Amplifier [OPA835](#) — Ultra Low Power, Rail to Rail Out, Negative Rail In, VFB Amplifier [OPA836](#) — Very Low Power, Rail to Rail out, Negative Rail in, VFB Op Amp [OPA837](#) — Low-power, precision 105-MHz voltage-feedback operational amplifier [OPA838](#) — 1-mA, 300-MHz Gain Bandwidth, Voltage-Feedback Op Amp [OPA842](#) — Wideband, Low Distortion, Unity Gain Stable, Voltage Feedback Operational Amplifier [OPA843](#) — Wideband, Low Distortion, Medium Gain, Voltage Feedback Operational Amplifier [OPA846](#) — Wideband low-noise voltage-feedback operational amplifier [OPA846-DIE](#) — Wideband, Low Noise, Voltage Feedback Operational Amplifier, OPA846-DIE [OPA847](#) — Wideband, ultra-low noise, voltage feedback operational amplifier with shutdown [OPA855](#) — 8 GHz Gain Bandwidth Product, Decompensated Transimpedance Amplifier with Bipolar Input [OPA855-Q1](#) — Automotive 8-GHz gain bandwidth, decompensated transimpedance amplifier with bipolar input [OPA856](#) — 1.1-GHz unity-gain bandwidth, 0.9 nV/√Hz, bipolar input amplifier [OPA858](#) — 5.5 GHz Gain Bandwidth Product, Decompensated Transimpedance Amplifier with FET Input [OPA858-Q1](#) — Automotive 5.5-GHz gain bandwidth, decompensated transimpedance amplifier with FET input [OPA859](#) — 1.8 GHz Unity-Gain Bandwidth, 3.3 nV/√Hz, FET Input Amplifier [OPA859-Q1](#) — Automotive 1.8-GHz unity-gain bandwidth, 3.3-nV/√Hz, FET input amplifier [OPA863](#) — Single-channel, low-power, 110-MHz, 12-V rail-to-rail input and output voltage-feedback amplifier [OPA863A](#) — Single-channel, high-precision, low-power, 105-MHz, 12-V RRIO voltage-feedback amplifier [OPA890](#) — Low Power, Wideband, Voltage Feedback Operational Amplifier with Disable [OPA891](#) — 180-MHz 0.95-nV/√Hz operational amplifier with ultra-low total harmonic distortion (THD) [OPA892](#) — 2-GHz 10-V/V stable 0.95-nV/√Hz operational amplifier with ultra-low total harmonic distortion (THD)

#### Power op amps

[OPA2541](#) — Dual High Power Operational Amplifier [OPA2544](#) — High-Voltage, High-Current Dual Operational Amplifier [OPA445](#) — High Voltage FET-Input Operational Amplifier [OPA452](#) — 80-V, 50-mA, unity-gain stable with a BW of 1.8-MHz operational amplifiers [OPA453](#) — 80-V, 50-mA optimized for gains greater than 5 with a BW of 7.5-MHz operational amplifiers [OPA454](#) — High voltage (100 V), high-current (50 mA) operational amplifiers, g=1 stable [OPA455](#) — 150-V, wide bandwidth 6.5-MHz, high-slew rate 32-V/μs unity-gain stable op amp [OPA462](#) — 180-V, wide bandwidth (6.5 MHz), high-slew rate (25 V/μs) unity-gain stable op amp [OPA521](#) — 2.5A Narrowband line driver [OPA541](#) — High Power Monolithic Operational Amplifier [OPA544](#) — High-Current (4A Typ), High-Voltage, Operational Amplifier [OPA547](#) — High-Voltage, High-Current Op Amp with shutdown capability [OPA548](#) — High-voltage, high-current, wide-output-voltage-swing power operational amplifier [OPA549](#) — High-Voltage, High-Current Op Amp, Excellent Output Swing [OPA549-HIREL](#) — High-Voltage, High-Current Operational Amplifier [OPA551](#) — High-current (380mA Typ), high-voltage (60V), operational amplifier [OPA552](#) — High-current (380mA typ), high-voltage (60V), wide bandwidth (12MHz), operational amplifier [OPA561](#) — High-current high-speed operational amplifier [OPA564](#) — 1.5A, 24V, 17MHz, Power Operational Amplifier [OPA564-Q1](#) — Automotive 1.5A, 24V, 17MHz, Power Operational Amplifier [OPA567](#) — Rail-to-Rail I/O, 2A Power Amplifier [OPA569](#) — Power Op Amp, Output Signal Swings Within 200mV of Rails at 2A Output Current

#### Video amplifiers

[OPA360](#) — 3V, Video Amplifier with Low Pass Filter, Internal G=2 and SAG Correction in SC70 [OPA361](#) — 3V Video Amplifier with Internal Gain and Filter [OPA361-Q1](#) — Automotive AEC-Q100 Grade 1 Qualified 3V Video Amplifier with Internal Gain and Filter [OPA362](#) — 3V Video Amplifier with Internal Gain and Filter in SC70 [OPA3692](#) — Triple, Wideband, Fixed Gain Video Buffer Amplifier With Disable [OPA3693](#) — Triple, ultra-wideband, fixed-gain, video buffer with disable [OPA3875](#) — Triple-channel, 700-MHz, op amp with 2:1 high-speed multiplexer [OPA4872](#) — 12V, 500MHz high-speed op amp with 4:1 high-speed multiplexer [OPA693](#) — Ultra-Wideband, Fixed Gain Video Buffer Amplifier with Disable [OPA875](#) — Single-channel, 700-MHz, op amp with 2:1 high-speed multiplexer

#### Line drivers

[OPA2670](#) — Single Port, High Output Current VDSL2 and PLC Line Driver with Power Control

#### Transconductance amplifiers & laser drivers

[OPA615](#) — Wide Bandwidth, DC Restoration Circuit [OPA860](#) — Wide Bandwidth Operational Transconductance Amplifier and Buffer [OPA861](#) — Wide Bandwidth Operational Transconductance Amplifier

#### Fully differential amplifiers

Precision ADCs

[ADS1000](#) — 12-Bit, 128SPS, 1-Ch Delta-Sigma ADC w/ PGA, Oscillator & I2C [ADS1000-Q1](#) — Automotive, 12-Bit, 128SPS, 1-Ch Delta-Sigma ADC w/ PGA, Oscillator & I2C [ADS1013](#) — 12-Bit 3.3kSPS 1-Ch Delta-Sigma ADC With Oscillator, Voltage Reference, and I2C [ADS1013-Q1](#) — Automotive 12-Bit 3.3kSPS 1-Ch Delta-Sigma ADC With Oscillator, Voltage Reference, and I2C [ADS1014](#) — 12-Bit 3.3kSPS 1-Ch Delta-Sigma ADC With PGA, Oscillator, Voltage Reference, Comparator, and I2C [ADS1014-Q1](#) — Automotive 12-Bit 3.3kSPS 1-Ch Delta-Sigma ADC With PGA, Oscillator, VREF, Comparator, and I2C [ADS1015](#) — 12-bit, 3.3-kSPS, 4-channel, delta-sigma ADC with PGA, oscillator, VREF, comparator and I2C [ADS1015-Q1](#) — Automotive 12-bit, 3.3-kSPS, 4-ch, delta-sigma ADC with PGA, oscillator, VREF, comparator and I2C [ADS1018](#) — 12-bit, 3.3-kSPS, 4-channel, delta-sigma ADC with PGA, oscillator, VREF, temp sensor and SPI [ADS1018-Q1](#) — Automotive, 12-bit, 3.3-kSPS, 4-ch, delta-sigma ADC with PGA, oscillator, VREF, temp sensor and SPI [ADS1100](#) — 16-Bit, 128SPS, 1-Ch Delta-Sigma ADC w/ PGA, Oscillator & I2C [ADS1110](#) — 16-Bit 240SPS 1-Ch Delta-Sigma ADC With PGA, Oscillator, Voltage Reference, and I2C [ADS1112](#) — 16-Bit 240SPS 4-Ch Delta-Sigma ADC With PGA, Oscillator, Voltage Reference, and I2C [ADS1113](#) — 16-Bit 860SPS 1-Ch Delta-Sigma ADC With Oscillator, Voltage Reference, and I2C [ADS1113-Q1](#) — Automotive 16-Bit 860SPS 1-Ch Delta-Sigma ADC With PGA, Oscillator, Vref, Comparator, and I2C [ADS1114-Q1](#) — Automotive 16-Bit 860SPS 1-Ch Delta-Sigma ADC With PGA, Oscillator, Vref, Comparator, and I2C [ADS1115](#) — 16-bit, 860-SPS, 4-channel, delta-sigma ADC with PGA, oscillator, VREF, comparator and I2C [ADS1115-Q1](#) — Automotive 16-bit, 860-SPS, 4-ch, delta-sigma ADC with PGA, oscillator, VREF, comparator and I2C [ADS1115L](#) — 16-bit, 860-SPS four-channel delta-sigma ADC with PGA, comparator and 1.8-V I<sup>2</sup>C bus voltage support [ADS1118](#) — 16-bit, 860-SPS, 4-channel, delta-sigma ADC with PGA, oscillator, VREF, temp sensor and SPI [ADS1118-Q1](#) — Automotive 16-bit, 860-SPS, 4-ch, delta-sigma ADC with PGA, oscillator, VREF, temp sensor and SPI [ADS1119](#) — 16-bit, 1kSPS, 4-ch general-purpose delta-sigma ADC with I2C interface and external Vref inputs [ADS1120](#) — 16-bit, 2-kSPS, 4-ch, low-power, small-size delta-sigma ADC with PGA, VREF, 2x IDACs & SPI interface [ADS1120-Q1](#) — Automotive 16-bit 2-kSPS 4-ch low-power delta-sigma ADC with PGA and VREF for small signal sensors [ADS112C04](#) — 16-bit, 2-kSPS, 4-ch, low-power, small-size delta-sigma ADC with PGA, VREF, 2x IDACs & I2C interface [ADS112U04](#) — 16-bit, 2-kSPS, 4-ch, low-power, small-size delta-sigma ADC w/ PGA, VREF, 2x IDACs & UART interface [ADS1130](#) — 18-Bit, 80SPS, 1-Ch Delta-Sigma ADC for Resistive Bridge Sensors & Weigh Scales [ADS1131](#) — 18-Bit, 80SPS, 1-Ch Delta-Sigma ADC w/ Powerdown Switch for Resistive Bridge Sensors & Weigh Scales [ADS1146](#) — 16-Bit 2kSPS 1-Ch ADC With PGA for Precision Sensor Measurement [ADS1147](#) — 16-Bit 2kSPS 4-Ch ADC With PGA, Reference, and IDAC for Precision Sensor Measurement [ADS1148](#) — 16-bit 2-kSPS ADC with PGA, reference and IDAC for precision sensor measurement [ADS1148-Q1](#) — Automotive 16-bit 2-kSPS ADC with PGA, reference and IDAC for precision sensor measurement [ADS114S06](#) — 16-bit, 4-kSPS, 6-ch delta-sigma ADC with PGA and voltage reference for sensor measurement [ADS114S06B](#) — 16-bit, 4-kSPS, 6-ch delta-sigma ADC With PGA and voltage reference for low-cost applications [ADS114S08](#) — 16-bit, 4-kSPS, 12-ch delta-sigma ADC with PGA and voltage reference for sensor measurement [ADS114S08B](#) — 16-bit, 4-kSPS, 12-ch delta-sigma ADC with PGA and voltage reference for low-cost applications [ADS1158](#) — 16-Bit, 125kSPS, 16-Ch Delta-Sigma ADC w/ Fast Channel Scan & Automatic Sequencer [ADS1174](#) — Quad, Simultaneous Sampling, 16-Bit Analog-to-Digital Converter [ADS1178](#) — Octal, Simultaneous Sampling, 16-Bit Analog-to-Digital Converter [ADS117L11](#) — 16-bit, 400-kSPS, low-power, wide-bandwidth delta-sigma ADC with input and reference buffers [ADS1201](#) — High Dynamic Range Delta-Sigma Modulator [ADS1202](#) — Current-shunt delta-sigma modulator, 10MHz CLK, +/-250mV input, 16-bit resolution [ADS1203](#) — Current-shunt delta-sigma modulator, 10MHz CLK, +/-250mV input, 16-bit resolution, ext ref option [ADS1204](#) — Four Delta-Sigma Modulators, 10MHz CLK, 0-5V Input, 16-Bit Resolution [ADS1205](#) — Two 1-Bit, 10MHz, 2nd-Order, Delta-Sigma Modulator [ADS1208](#) — 10MHz Modulator With Built-in Current Excitation for Hall Sensors [ADS1209](#) — 16-Bit, 10MHz, 2-Ch, Delta-Sigma Modulator [ADS1211](#) — 24-bit, 15.6-kSPS, 8-ch delta-sigma ADC with VREF and PGA [ADS1213](#) — 22-bit, 6.25-kSPS, 8-ch Delta-Sigma ADC with VREF and PGA [ADS1216](#) — 24-bit, 8-ch delta-sigma ADC with VREF, PGA, IDACs and RAM [ADS1217](#) — 8-Channel, 24-Bit Analog-to-Digital Converter [ADS1218](#) — 24-Bit, 780SPS ADC w/ Flash Memory, 8 Ch, VREF, Buffer, 2 IDACs, Serial Out, Digital I/O, Low Power [ADS1219](#) — 24-bit, 1kSPS, 4-ch general-purpose delta-sigma ADC with I2C interface and external Vref inputs [ADS1220](#) — 24-bit, 2-kSPS, four-channel, low-power, delta-sigma ADC with PGA, VREF, SPI and two IDACs [ADS1222](#) — 24-bit ADC with 2-channel differential input multiplexer [ADS1224](#) — 24-bit 240-SPS ADC with 4-channel differential input multiplexer, high-Z buffer, and serial output [ADS1225](#) — 24-bit 100-SPS ADC with differential input and internal oscillator [ADS1226](#) — 24-bit ADC with two differential input multiplexers and internal oscillators [ADS122C04](#) — 24-bit, 2-kSPS, 4-ch, low-power, small-size delta-sigma ADC with PGA, VREF, 2x IDACs & I2C interface [ADS122U04](#) — 24-bit, 2-kSPS, 4-ch, low-power, small-size delta-sigma ADC w/ PGA, VREF, 2x IDACs & UART interface [ADS1230](#) — 20-Bit, 80SPS, 1-Ch Delta-Sigma ADC for Resistive Bridge Sensors & Weigh Scales [ADS1231](#) — 24-Bit, 80SPS, 1-Ch Delta-Sigma ADC for Resistive Bridge Sensors & Weigh Scales [ADS1232](#) — 24-Bit, 80SPS, 2-Ch (Differential), Pin-Programmable Delta-Sigma ADC for Bridge Sensors [ADS1234](#) — 24-Bit, 80SPS, 4-Ch (Differential), Pin-Programmable Delta-Sigma ADC for Bridge Sensors [ADS1235](#) — 24-bit, 7.2-kSPS, 3-ch differential, delta-sigma ADC with PGA and AC excitation for bridge sensors [ADS1235-Q1](#) — Automotive 24-bit, 7.2-kSPS, 3-ch differential input, delta-sigma ADC with PGA and AC excitation [ADS1240](#) — 24-Bit, 30-SPS, 4-Ch delta-sigma ADC with PGA [ADS1241](#) — 24-Bit, 30-SPS, 8-Ch delta-sigma ADC with PGA [ADS1242](#) — 24-Bit ADC, 4 Ch, PGA 1:128, 50/60 Hz Notch, 0.6 mW Power Consumption [ADS1243](#) — 24-Bit ADC, 8 Ch, PGA 1:128, 50/60 Hz Notch, 0.6 mW Power Consumption [ADS1243-HT](#) — High-Temperature 24-Bit ADC, 8-Ch, PGA 1:128, 50/60Hz Notch [ADS1244](#) — 24-Bit 15sps Delta-Sigma ADC with 50 & 60Hz rejection [ADS1245](#) — 24-Bit Low-Power ADC With High-Z Input Buffer [ADS1246](#) — 24-Bit, 2kSPS, 1-Ch Delta-Sigma ADC With PGA for Precision Sensor Measurement [ADS1247](#) — 24-Bit, 2kSPS, 4-Ch Delta-Sigma ADC With PGA, Vref and 2x IDACs for Precision Sensor Measurement [ADS1248](#) — 24-bit, 2-kSPS, eight-channel delta-sigma ADC for precision sensor measurement [ADS124S06](#) — 24-bit, 4-kSPS, 6-ch delta-sigma ADC with PGA and voltage reference for precision sensor measurement [ADS124S08](#) — 24-bit, 4-kSPS, 12-ch delta-sigma ADC with PGA and voltage reference for sensor measurement [ADS1250](#) — 20-Bit Data Acquisition System Analog-to-Digital Converter [ADS1251](#) — 24-Bit, 20kHz, Low-Power Analog-to-Digital Converter [ADS1252](#) — ResolutionPlus 24-Bit, 40kHz Analog-to-Digital Converter [ADS1253](#) — 24-Bit, 20-kSPS, 4-Ch, single-supply delta-sigma ADC [ADS1254](#) — 24-Bit, 20-kSPS, 4-Ch delta-sigma ADC with separate AVDD and DVDD [ADS1255](#) — 24-Bit, 30kSPS, Very-Low-Noise Delta-Sigma ADC [ADS1256](#) — 24-Bit,



30kSPS, 8-Ch Delta-Sigma ADC With PGA for Factory Automation and Process Control [ADS1257](#) — 24-Bit, 30kSPS, 4-Ch Industrial ADC With Integrated PGA [ADS1258](#) — 24-bit, 125kSPS, 16-ch delta-sigma ADC with fast channel scan and automatic sequencer [ADS1258-EP](#) — Enhanced product 16-channel 24-bit analog-to-digital converter (ADC) [ADS1259](#) — 24-bit, 14.4kSPS, 1-ch delta-sigma ADC with low-drift voltage reference for factory automation [ADS1259-Q1](#) — Automotive, 24-bit, 14.4kSPS, 1-ch delta-sigma ADC w/ low-drift Vref for high-dynamic range systems [ADS125H01](#) — 24-bit, 40-kSPS, 1-ch delta-sigma ADC with low-noise PGA and  $\pm 20$ -V input [ADS125H02](#) — 24-bit, 40-kSPS, 2-ch delta-sigma ADC with  $\pm 20$ -V input, PGA, IDACs, GPIOs and VREF [ADS1260](#) — 24-bit, 40-kSPS, 5-ch delta-sigma ADC with PGA, VREF and IDACs for factory automation [ADS1260-Q1](#) — Automotive 24-bit, 40-kSPS, 5-ch delta-sigma ADC with PGA, VREF and IDACs [ADS1261](#) — 24-bit, 40-kSPS, 10-ch delta-sigma ADC with PGA, VREF, IDACs & AC excitation for factory automation [ADS1261-Q1](#) — Automotive 24-bit, 40-kSPS, 10-ch, delta-sigma ADC with PGA, VREF, IDACs and AC excitation [ADS1262](#) — 32-bit 38-kSPS 10-ch delta-sigma ADC with PGA and voltage reference for factory automation [ADS1263](#) — 32-bit 38-kSPS 10-ch delta-sigma ADC with PGA, VREF and auxiliary ADC for factory automation [ADS1271](#) — 24-Bit, 105kSPS, 1-Ch Delta-Sigma ADC for Wide Bandwidth Applications [ADS1274](#) — 24-Bit, 144kSPS, 4-Ch Simultaneous-Sampling Delta-Sigma ADC for Wide Bandwidth Applications [ADS1278](#) — 24-Bit, 144kSPS, 8-Ch Simultaneous-Sampling Delta-Sigma ADC for Wide Bandwidth Applications [ADS1278-EP](#) — Enhanced Product Octal, 144kHz, Simultaneous Sampling 24-Bit Delta Sigma ADC [ADS1278-HT](#) — High-Temperature Quad/Octal, Simultaneous-Sampling, 24-Bit Analog-to-Digital Converter [ADS1278-SP](#) — Radiation Hardened 24-Bit 8-Ch Simultaneous-Sampling Delta-Sigma ADC [ADS127L01](#) — 24-Bit, 512kSPS, 1-Ch, Very-Low-Power, Wide-Bandwidth Delta-Sigma ADC [ADS127L11](#) — 24-bit, 400-kSPS, delta-sigma ADC with easy-to-drive inputs and wideband or low-latency filters [ADS127L21](#) — 24-bit, 512-kSPS wide-bandwidth delta-sigma ADC with programmable IIR and FIR filters [ADS1281](#) — Ultra-high-resolution 4-kSPS 1-channel delta-sigma ADC for seismic and energy exploration [ADS1282](#) — Ultra-high-resolution 4-kSPS 2-channel delta-sigma ADC with PGA for seismic and energy exploration [ADS1282-SP](#) — High-resolution analog-to-digital converter (ADC) [ADS1283](#) — Ultra-high-resolution 4-kSPS 2-ch delta-sigma ADC with PGA for seismic and energy exploration [ADS1284](#) — Ultra-high-resolution 4-kSPS 2-ch ADC w/ PGA and low-power mode for seismic and geospace exploration [ADS1285](#) — 32-bit high-resolution two-channel delta-sigma ADC for seismic and geospace exploration [ADS1286](#) — 12-bit micropower sampling analog-to-digital converter (ADC) [ADS1287](#) — Low-power 1-kSPS 1-ch delta-sigma ADC with PGA for seismic and energy exploration [ADS1287D](#) — Low-power 1-kSPS 2-ch (simultaneous) delta-sigma ADC with PGA for seismic and energy exploration [ADS130B02-Q1](#) — Automotive 16-bit, 32-kSPS, two-channel, simultaneous-sampling, delta-sigma ADC [ADS130B04-Q1](#) — Automotive 16-bit, 32-kSPS, four-channel, simultaneous-sampling, delta-sigma ADC [ADS130E08](#) — Low-Cost, 8-Channel, Integrated Analog Front-End for Metering Applications [ADS131A02](#) — 24-bit 128-kSPS 2-channel simultaneous-sampling delta-sigma ADC [ADS131A04](#) — 24-bit 128-kSPS 4-channel simultaneous-sampling delta-sigma ADC [ADS131B02-Q1](#) — Automotive 24-bit, 32-kSPS, two-channel, simultaneous-sampling, delta-sigma ADC [ADS131B04-Q1](#) — Automotive 24-bit, 32-kSPS, four-channel, simultaneous-sampling, delta-sigma ADC [ADS131B23](#) — 3 ADC channel, SPI, high-voltage battery pack monitor for current and voltage sensing [ADS131B23-Q1](#) — Automotive high-voltage battery-pack monitor with three ADC channels for current and voltage sensing [ADS131B24-Q1](#) — Automotive high-voltage battery-pack monitor with four ADC channels for current and voltage sensing [ADS131B26-Q1](#) — Automotive high-voltage battery-pack monitor with six ADC channels for current and voltage sensing [ADS131E04](#) — 24-bit 64-kSPS 4-channel simultaneous-sampling delta-sigma ADC for power monitoring and protection [ADS131E06](#) — 24-bit 64-kSPS 6-channel simultaneous-sampling delta-sigma ADC for power monitoring and protection [ADS131E08](#) — 24-bit 64-kSPS 8-channel simultaneous-sampling delta-sigma ADC for power monitoring and protection [ADS131E08S](#) — 24-bit 64-kSPS 8-ch simultaneous delta-sigma ADC with fast start-up for monitoring and protection [ADS131M02](#) — Two-channel, 24-bit, 64-kSPS, simultaneous-sampling, delta-sigma ADC [ADS131M02-Q1](#) — Automotive, two-channel, 24-bit, 64-kSPS simultaneous-sampling delta-sigma ADC [ADS131M03](#) — Three-channel, 24-bit, 64-kSPS, simultaneous-sampling, delta-sigma ADC [ADS131M03-Q1](#) — Automotive, three-channel, 24-bit, 64-kSPS, simultaneous-sampling, delta-sigma ADC [ADS131M04](#) — Four-channel, 24-bit, 64-kSPS, simultaneous-sampling, delta-sigma ADC [ADS131M04-Q1](#) — Automotive, four-channel, 24-bit, 64-kSPS simultaneous-sampling delta-sigma ADC [ADS131M06](#) — Six-channel, 24-bit, 32-kSPS, simultaneous-sampling, delta-sigma ADC [ADS131M06-Q1](#) — Automotive, six-channel, 24-bit, 32-kSPS simultaneous-sampling delta-sigma ADC [ADS131M08](#) — 24-bit, 32-kSPS, 8-channel, simultaneous-sampling, delta-sigma ADC [ADS131M08-Q1](#) — Automotive, eight-channel, 24-bit, 32-kSPS simultaneous-sampling delta-sigma ADC [ADS1601](#) — 16-Bit, 1.25MSPS, High Speed and High Precision Delta Sigma ADC [ADS1602](#) — 16-Bit, 2.5MSPS Analog-to-Digital Converter [ADS1605](#) — 16-bit, 5 MSPS Delta-Sigma, Analog-to-Digital Converter [ADS1606](#) — 16 Bit, 5MSPS Single Channel Delta-Sigma ADC Single with FIFO [ADS1610](#) — 16-Bit, 10MSPS Delta-Sigma Analog-to-Digital Converter [ADS1625](#) — 18 Bit, 1.25MSPS Single Channel Delta-Sigma ADC [ADS1626](#) — 18 Bit, 1.25MSPS Single Channel Delta-Sigma ADC Single with an adjustable FIFO [ADS1672](#) — High Speed High Resolution 625kSPS 24 bit Delta Sigma ADC [ADS1675](#) — 4MSPS, 24-Bit Analog-to-Digital Converter [ADS7028](#) — Small 8-channel 12-bit analog-to-digital converter (ADC) with SPI, GPIOs and CRC [ADS7029-Q1](#) — Ultra-Low-Power Ultra-Small-Size 8-Bit 2MSPS SAR ADC [ADS7038](#) — 8-channel, 1-MSPS, 12-bit analog-to-digital converter (ADC) with SPI, GPIOs and CRC [ADS7038-Q1](#) — Automotive, 8-channel, 1-MSPS, 12-bit analog-to-digital converter (ADC) with SPI, GPIOs and CRC [ADS7039-Q1](#) — Ultra-Low-Power Ultra-Small-Size 10-Bit 2MSPS SAR ADC [ADS7040](#) — Ultra-low-power, ultra-small-size SAR ADC, 8 bit, 1 MSPS, single ended [ADS7041](#) — Ultra-low power and ultra-small size SAR ADC, 10 bit, 1 MSPS, single ended [ADS7042](#) — 12-Bit 1MSPS Ultra-Low-Power Ultra-Small-Size SAR ADC With SPI Interface [ADS7043](#) — Ultra-Low-Power Ultra-Small-Size SAR ADC | 12 Bit | 1MSPS | Pseudo Differential [ADS7044](#) — Ultra-Low-Power Ultra-Small-Size SAR ADC | 12 Bit | 1MSPS | Fully Differential [ADS7046](#) — 12-Bit, 3MSPS, Single-Ended Input, Small-Size Low-Power SAR ADC [ADS7047](#) — 12-Bit, 3MSPS, Differential Input, Small-Size Low-Power SAR ADC [ADS7049-Q1](#) — Ultra-Low-Power Ultra-Small-Size 12-Bit 2MSPS SAR ADC [ADS7052](#) — 14-Bit, 1MSPS, Single-Ended Input, Small-Size Low-Power SAR ADC [ADS7054](#) — 14-Bit, 1MSPS, Differential Input, Small-Size Low-Power SAR ADC [ADS7056](#) — 14-bit 2.5-MSPS ultra-low-power ultra-small-size SAR ADC with SPI [ADS7057](#) — 14-Bit, 2.5MSPS, Differential Input, Small-Size Low-Power SAR ADC [ADS7066](#) — Eight-channel, 250-kSPS, 16-bit analog-to-digital converter with internal reference, GPIOs and SPI [ADS7067](#) — Eight-channel, 800-kSPS, 16-bit SAR analog-to-digital converter (ADC) with GPIOs and SPI [ADS7128](#) — Small 8-ch 12-bit analog-to-digital converter (ADC) with I2C interface, GPIOs, CRC and RMS module [ADS7138](#) — 8-channel, 140-kSPS, 12-bit analog-to-digital converter (ADC) with I2C, GPIOs and CRC [ADS7138-Q1](#) — Automotive, 8-channel, 140-kSPS, 12-bit analog-to-digital converter (ADC) with I2C, GPIOs and CRC [ADS7142](#) — 12-bit 140-kSPS 2-ch nanopower SAR ADC with 1.8-V operation in 1.5-mm x 2-mm QFN package [ADS7142-Q1](#) — Automotive 2-channel 12-bit 140-kSPS I2C-compatible ADC with programmable threshold and host wake-up [ADS7223](#) — 12-bit 1MSPS 4x2/2x2 Simultaneous Sampling SAR ADC



[ADS7229](#) — 12-Bit, 1-MSPS, 1-ch SAR ADC w/ single-ended inputs [ADS7230](#) — Low-power, 12-bit, 2-channel, 1-MHz, single/dual unipolar input, ADCs with serial interface [ADS7250](#) — SAR ADC, Dual, 750 kSPS, 12 Bit, Simultaneous Sampling [ADS7251](#) — SAR ADC, Dual, 2 MSPS, 12 Bit, Simultaneous Sampling [ADS7253](#) — 12 Bit, 1 MSPS, Dual, Simultaneous Sampling Single Ended / Pseudo-Differential SAR ADC [ADS7254](#) — 12 Bit, 1 MSPS, Dual, Simultaneous Sampling Differential SAR ADC [ADS7263](#) — 14-bit 1MSPS 4x2/2x2 Simultaneous Sampling SAR ADC [ADS7279](#) — Low-Power, 14-Bit, 1-MHz, Single Unipolar Input, ADC with Serial Interface [ADS7280](#) — Low-Power, 14-Bit, 1-MHz, Dual Unipolar Input, ADC with Serial Interface [ADS774](#) — Microprocessor-Compatible Sampling CMOS A/D Converter [ADS774H](#) — Microprocessor-Compatible Sampling CMS Analog-to-Digital Converter [ADS7800](#) — 12-Bit 3us Sampling Analog-to-Digital Converter [ADS7804](#) — 12-Bit 10us Sampling CMOS Analog-to-Digital Converter [ADS7805](#) — 16-Bit 10us Sampling CMOS Analog-to-Digital Converter [ADS7806](#) — Low-Power 12-Bit Sampling CMOS Analog-to-Digital Converter [ADS7807](#) — Low-Power 16-Bit Sampling CMOS Analog-to-Digital Converter [ADS7808](#) — 12-bit 10-μs serial CMOS-sampling analog-to-digital converter (ADC) [ADS7809](#) — 16-Bit 10us Serial CMOS Sampling Analog-to-Digital Converter [ADS7811](#) — 16-Bit, 250-kSPS, 1-Ch SAR ADC with single-ended input [ADS7812](#) — Low-Power, Serial 12-Bit Sampling Analog-To-Digital Converter [ADS7813](#) — Low-Power, Serial 16-Bit Sampling Analog-To-Digital Converter [ADS7815](#) — 16-Bit, 250-kSPS, 1-Ch SAR ADC with single-ended input [ADS7816](#) — 12-bit high-speed micropower sampling analog-to-digital converter (ADC) [ADS7817](#) — 12-Bit Differential Input Micro Power Sampling Analog-to-Digital Converter [ADS7818](#) — 12-Bit High Speed Low Power Sampling Analog-to-Digital Converter with 5V input range [ADS7822](#) — 12-Bit, 200kSPS Micro Power Sampling Analog-To-Digital Converter [ADS7822-Q1](#) — Automotive 12-Bit, 200kSPS Micro Power Sampling Analog-To-Digital Converter [ADS7823](#) — 12-Bit Low Power, I2C Serial, Sampling Analog-To-Digital Converter [ADS7824](#) — 4-Channel, 12-Bit Sampling CMOS A/D Converter [ADS7825](#) — 4 Channel, 16-Bit Sampling CMOS A/D Converter [ADS7826](#) — 5.25V-2.7V, 10 bit, 200KSPS, Synchronous Serial ADC [ADS7827](#) — 5.25V-2.7V, 8 bit, 250KSPS, Synchronous Serial ADC [ADS7828](#) — 12-Bit, 8-Channel SAR ADC with Internal Reference and I2C Interface [ADS7828-Q1](#) — Automotive 12-Bit 50 kSPS ADC I2C Low Power 8-Channel MUX Int 2.5V Ref [ADS7829](#) — 12-Bit High Speed 2.7V microPower Sampling Analog-to-Digital Converter [ADS7830](#) — 8-Bit, 8-Channel Sampling A/D Converter with I2C Interface [ADS7834](#) — 12-Bit High Speed Low Power Sampling Analog-to-Digital Converter with 2.5V input range [ADS7835](#) — 12-Bit, High-Speed, Low Power Sampling Analog-to-Digital Converter [ADS7841](#) — 12-bit 4-channel serial output sampling analog-to-digital converter (ADC) [ADS7841-Q1](#) — Automotive 12-bit 4-channel serial output sampling analog-to-digital converter (ADC) [ADS7842](#) — 12-Bit, 4-Channel Parallel Output Sampling Analog-to-Digital Converter [ADS7844](#) — 12-Bit, 8-Channel Serial Output Sampling Analog-To-Digital Converter [ADS7850](#) — SAR ADC, Dual, 750 kSPS, 14 Bit, Simultaneous Sampling [ADS7851](#) — SAR ADC, Dual, 1.5 MSPS, 14 Bit, Simultaneous Sampling [ADS7852](#) — 12-Bit, 8-Channel, Parallel Output Analog-to-Digital Converter [ADS7853](#) — SAR ADC, dual, single-ended input, 1 MSPS, 14-bit, simultaneous sampling [ADS7854](#) — SAR ADC, dual, differential input, 1 MSPS, 14-bit, simultaneous sampling [ADS7861](#) — Dual, 500kHz, 12-Bit, 2+2 Ch, Simultaneous Sampling Analog-To-Digital Converter [ADS7862](#) — Dual 500kHz, 12-Bit, 2+2 Ch Simultaneous Sampling Analog-To-Digital Converter [ADS7863](#) — Dual, 2MSPS, 12-Bit, 3+3 or 2+2 Channel, Simultaneous Sampling Analog-To-Digital SAR Converter [ADS7863A](#) — Dual, 2MSPS, 12-Bit, 2+2 or 3+3 Channel, Simultaneous Sampling SAR ADC [ADS7864](#) — 500kHz, 12-Bit, 6-Channel Simultaneous Sampling Analog-To-Digital Converter [ADS7865](#) — Dual, 2MSPS, 12-Bit, 3+3 or 2+2 Channel, Simultaneous Sampling ADC [ADS7866](#) — 1.2V, 12 Bit 200KSPS, Serial ADC [ADS7867](#) — 1.2V, 10 bit 240KSPS, Serial ADC [ADS7868](#) — 1.2V, 8 bit 280KSPS, Serial ADC [ADS7869](#) — 12-Ch 7 Simultaneous Sampling, Analog Motor Control Front End w/3 1MSPS, 12-Bit ADCs [ADS7870](#) — 12-Bit ADC, MUX, PGA and Internal Reference Data Acquisition System [ADS7871](#) — 14-Bit 48KSPS DAS with ADC, MUX, PGA and Internal Reference [ADS7881](#) — 2.7V-5.25V Digital, 5V Analog, 12 Bit, 4MSPS, Parallel ADC with Ref [ADS7882](#) — 2.7V-5.25V Digital, 5V Analog, 12 Bit, 3MSPS, Parallel ADC with Ref [ADS7883](#) — 2.7V-5.5V, 12 bit, 3MSPS, Serial ADC [ADS7884](#) — 2.7V-5.5V, 10 Bit, 3MSPS, Serial ADC [ADS7885](#) — 2.7V-5.5V, 8 Bit, 3MSPS, Serial ADC [ADS7886](#) — 2.35V-5.25V, 12 bit, 1MSPS, Serial ADC [ADS7887](#) — 2.35V-5.25V, 10 Bit, 1.25MSPS, Serial ADC [ADS7888](#) — 2.35V-5.25V, 8 Bit, 1.25MSPS, Serial ADC [ADS7890](#) — 14-Bit, 1.25MSPS, 1-Ch SAR ADC with Serial Interface and Internal Voltage Reference [ADS7891](#) — 2.7-V to 5.25-V digital, 5-V analog, 14-bit 3-MSPS parallel ADC with internal reference [ADS7924](#) — 12-Bit 4-Ch MUX-Input SAR ADC With Intelligent System Power Control [ADS7945](#) — 14-Bit, 2MSPS, Dual-Channel, Unipolar, Differential, u-Power SAR ADC [ADS7946](#) — 14-Bit, 2MSPS, Dual-Channel, Unipolar, Pseudo-Differential, u-Power SAR ADC [ADS7947](#) — 12-Bit, 2 MSPS, Dual Channel, Pseudo-differential uPower Serial SAR ADC [ADS7948](#) — 10-Bit, 2 MSPS, Dual Channel, Pseudo-differential uPower Serial SAR ADC [ADS7949](#) — 8-Bit, 2 MSPS, Dual Channel, Pseudo-differential, uPower Serial SAR ADC [ADS7950](#) — 12 bit, 1 MSPS, 4 ch, single ended, micro power, sr i/f, SAR ADC [ADS7950-Q1](#) — Automotive, 12-bit, 1-MSPS, 4-channel, single-ended SAR ADC [ADS7951](#) — 12 bit, 1 MSPS, 8 Channel, Single-Ended, SAR ADC [ADS7951-Q1](#) — Automotive 12 bit, 1 MSPS, 8 Channel, Single-Ended, SAR ADC [ADS7952](#) — 12 bit, 1 MSPS, 12 Ch, single ended, micro power, sr i/f, SAR ADC [ADS7952-Q1](#) — Automotive 12-Bit, 1MSPS, 12-Channel Single-Ended Micropower, Serial Interface ADC [ADS7953](#) — 12-Bit, 1-MSPS, 16-Channel, Single-Ended, microPower SAR ADC with Serial I/F [ADS7953-Q1](#) — Automotive 12-Bit, 1MSPS, 16-Channel Single-Ended Micropower, Serial Interface ADC [ADS7954](#) — 10 bit, 1 MSPS, 4 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7954-Q1](#) — Automotive 10 bit, 1 MSPS, 4 Channel, Single-Ended, SAR ADC [ADS7955](#) — 10 bit, 1 MSPS, 8 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7955-Q1](#) — Automotive 10 bit, 1 MSPS, 8 Channel, Single-Ended, SAR ADC [ADS7956](#) — 10 bit, 1 MSPS, 12 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7956-Q1](#) — Automotive 10-Bit, 1MSPS, 12-Channel Single-Ended Micropower, Serial Interface ADC [ADS7957](#) — 10 bit, 1 MSPS, 16 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7957-Q1](#) — Automotive 10-Bit, 1MSPS, 16-Channel Single-Ended Micropower, Serial Interface ADC [ADS7958](#) — 8 bit, 1 MSPS, 4 Channel, Single-Ended, SAR ADC [ADS7958-Q1](#) — Automotive 8 bit, 1 MSPS, 4 Channel, Single-Ended, SAR ADC [ADS7959](#) — 8 bit, 1 MSPS, 8 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7959-Q1](#) — Automotive 8 bit, 1 MSPS, 8 Channel, Single-Ended, SAR ADC [ADS7960](#) — 8 Bit, 1 MSPS, 12 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7960-Q1](#) — Automotive 8 bit, 1 MSPS, 12 Channel, Single-Ended, SAR ADC [ADS7961](#) — 8 Bit, 1 MSPS, 16 Ch, Single Ended, Micro Power, sr i/f, SAR ADC [ADS7961-Q1](#) — Automotive 8-Bit, 1MSPS, 16-Channel Single-Ended Micropower, Serial Interface ADC [ADS8028](#) — 12-bit, 8-channel, 1MSPS, SAR ADC with Internal Reference and Internal Temperature Sensor [ADS8166](#) — 16-bit, 250-kSPS, 8-ch SAR ADC with VREF, VREF buffer and direct sensor interface [ADS8167](#) — 16-bit, 500-kSPS, 8-ch SAR ADC with VREF, VREF buffer and direct sensor interface [ADS8168](#) — 16-bit, 1-MSPS, 8-ch SAR ADC with VREF, VREF buffer and direct sensor interface [ADS8201](#) — 2.2V to 5.5V, Low-Power, 12-Bit, 100kSPS, 8-Channel DAS with PGA and SPI™ [ADS8284](#) — 18 bit, 1 MSPS, 4 channel, Pseudo bipolar, differential ADC with onboard ADC driver OPA [ADS8317](#) — 16-Bit, Pseudo-Bipolar, Fully Diff Input, 250kSPS Serial Out, 2.7V-to-5.5V Micropower Sampling ADC [ADS8318](#) — 16-Bit, Unipolar Differential

Input, 500kSPS Serial Out, 4.5V-to-5.5V Micropower Sampling ADC [ADS8319](#) — Precision 16-Bit SAR Analog-to-Digital Converter (ADC) With SPI Interface [ADS8320](#) — 16-Bit, High-Speed, 2.7V-to-5V Micropower Sampling Analog-to-Digital Converter (ADC) [ADS8320-HT](#) — High-Temperature 16-bit, high-speed, 2.7 V-to-5 V micropower sampling ADC [ADS8321](#) — 16-Bit, High-Speed, Micropower Sampling Analog-to-Digital Converter (ADC) [ADS8322](#) — Unipolar, 16-Bit, 500kSPS CMOS Analog-to-Digital Converter (ADC) [ADS8323](#) — Pseudo Bipolar, 16-Bit, 500kSPS CMOS Analog-to-Digital Converter [ADS8324](#) — 14-Bit 50 kSPS ADC Ser. Out, 1.8V Operation [ADS8325](#) — 16-Bit, 100kSPS Serial Out, 2.7V-to-5.5V Micropower Sampling ADC [ADS8326](#) — 16-Bit, Pseudo-Diff Input, 250kSPS Serial Out, 2.7V-to-5.5V Micropower Sampling ADC [ADS8327](#) — 2.7V-to-5.5V 16-Bit 500kSPS Serial Analog-to-Digital Converter (ADC) [ADS8328](#) — 2.7V-to-5.5V 16-Bit 500kSPS Serial ADC With 2-to-1 Multiplexer [ADS8329](#) — 2.7V-to-5.5V 16-Bit 1MSPS Serial Analog-to-Digital Converter (ADC) [ADS8330](#) — 2.7V-to-5.5V 16-Bit 1MSPS Serial ADC With 2-to-1 Multiplexer [ADS8331](#) — 2.7V-to-5.5V 16-Bit 500kSPS Low-Power Serial Analog-to-Digital Converter (ADC) [ADS8332](#) — 2.7V-to-5.5V, 16-Bit, 500kSPS Low-Power Serial ADC With 8-Ch Multiplexer and Breakout [ADS8339](#) — 16-bit, 250-kSPS, serial-interface micropower, miniature SAR ADC [ADS8341](#) — 16-Bit, 4-Channel Serial Output Sampling Analog-to-Digital Converter (ADC) [ADS8342](#) — 16-Bit 250 kSPS ADC Parallel Out, 4 true bipolar channels [ADS8343](#) — 16-Bit, 4-Channel Serial Output Sampling Analog-To-Digital Converter [ADS8344](#) — 16-Bit, 100-kSPS, 8-Ch SAR ADC with single-ended inputs [ADS8345](#) — 16-Bit, 100-kSPS, 8-Ch SAR ADC with fully differential inputs [ADS8350](#) — Dual 750kSPS 16-Bit Simultaneous-Sampling SAR Analog-to-Digital Converter (ADC) [ADS8353](#) — 16-bit 600-kSPS 2-channel simultaneous-sampling SAR ADC with single-ended inputs [ADS8353-Q1](#) — Automotive 16-bit 600-kSPS 2-channel simultaneous-sampling SAR ADC with single-ended inputs [ADS8354](#) — Dual 700kSPS 16-Bit Simultaneous-Sampling SAR Analog-to-Digital Converter (ADC) [ADS8355](#) — 16-bit 1-MSPS 2-channel simultaneous-sampling SAR ADC with single-ended inputs [ADS8361](#) — 16-Bit 500 kSPS 2 ADCs, 4ch, serial out [ADS8363](#) — 16-Bit, 1-MSPS, 4x2/2x2 Simultaneous-Sampling SAR ADC [ADS8364](#) — 6-Channel 16-Bit Simultaneous-Sampling SAR ADC With 250kSPS for Motor and Power Control [ADS8365](#) — 16-Bit 250kSPS 6-Ch Simultaneous Sampling SAR ADC [ADS8370](#) — 16-Bit 600KSPS Serial ADC with Ref and Unipolar Pseudo Diff Input [ADS8371](#) — 16-Bit 750-kHz Unipolar Input Micro Power Sampling ADC Converter w/Parallel [ADS8372](#) — 16-Bit 600KSPS Serial ADC with Ref and Pseudo Bipolar, Fully Differential Input [ADS8380](#) — 18-Bit 600KSPS Serial ADC with Ref and Unipolar Pseudo Diff Input [ADS8381](#) — 18 Bit 580KSPS parallel ADC [ADS8382](#) — 18-Bit 600KSPS Serial ADC with Ref and Pseudo Bipolar, Fully Differential Input [ADS8383](#) — 18 Bit 500KSPS Parallel ADC [ADS8405](#) — 16-Bit 1.25 MSPS Unipolar Input Micro Power Sampling ADC [ADS8406](#) — 16-Bit 1.25 MSPS, Pseudo Bipolar, Fully Differential Input Micro Power Sampling ADC [ADS8411](#) — 16-Bit, 2MSPS ADC with P8/P16 Parallel Output, Internal Clock & Internal Reference [ADS8412](#) — 16-Bit 2MSPS Parallel ADC W/Ref, Unipolar Fully Differential Input [ADS8413](#) — 16-bit, Unipolar Diff Input, 2MSPS Sampling rate, 4.75V to 5.25V ADC with LVDS Serial Interface [ADS8422](#) — 16 Bit 4MSPS Parallel ADC W/Ref, Pseudo Bipolar, Fully Differential Input [ADS8471](#) — 16-bit 1-MSPS pseudo-differential SAR ADC with reference [ADS8472](#) — 16-Bit 1MSPS 0.65 LSB Max INL Precision ADC with Parallel Interface and Reference [ADS8481](#) — 18 Bit 1MSPS parallel ADC W/Ref [ADS8482](#) — 18 Bit 1MSPS Parallel ADC W/Ref, Pseudo Bipolar, Fully Differential Input [ADS8484](#) — 18 Bit 1.25MSPS Parallel ADC W/Ref, Pseudo Bipolar, Fully Differential Input [ADS8504](#) — 12-Bit 250kHz CMOS Analog-to-Digital Converter With Parallel Interface 2.5V Internal Reference [ADS8505](#) — 16-Bit, 250-kSPS, 1-Ch SAR ADC with programmable ( $\pm 10/\pm 5/\pm 3.3$ V) input ranges and parallel interface [ADS8506](#) — 12-Bit 40KSPS Analog-to-Digital Converter With Serial Interface and Reference Parallel [ADS8507](#) — 16-Bit 40KSPS Analog-to-Digital Converter With Internal Reference and Parallel/Serial Interface [ADS8508](#) — 12-Bit 250kHz CMOS Analog-to-Digital Converter With Serial Interface 2.5V Internal Reference [ADS8509](#) — 16-Bit, 250-kSPS, 1-Ch SAR ADC with programmable ( $\pm 10/\pm 5/\pm 3.3$ V) input ranges and SPI interface [ADS8512](#) — 12-Bit 40kSPS Low-Power Sampling ADC With Internal Reference and Serial Interface [ADS8513](#) — 16-Bit 40kSPS Low-Power Sampling ADC With Internal Reference and Parallel/Serial Interface [ADS8515](#) — 16-Bit 250kHz CMOS Analog-to-Digital Converter With Parallel Interface 4.096V Internal Reference [ADS8517](#) — Low-Power 16-Bit 200kSPS  $\pm 10$ V Bipolar Input SAR ADC With S/P Interface [ADS8519](#) — 16-Bit 250kHz CMOS Analog-to-Digital Converter With Serial Interface 4.096V Internal Reference [ADS8528](#) — 12-Bit 8-Channel Simultaneous-Sampling Bipolar-Input ADC [ADS8548](#) — 14-Bit 8-Channel Simultaneous-Sampling Bipolar-Input ADC [ADS8555](#) — 630-kSPS, 16-bit, six-channel, simultaneous-sampling analog-to-digital converter (ADC) [ADS8556](#) — 630kSPS 6-Channel Simultaneous-Sampling ADC [ADS8557](#) — 670kSPS 14-Bit 6-Channel Simultaneous-Sampling ADC [ADS8558](#) — 730kSPS 12-Bit 6-Channel Simultaneous-Sampling ADC [ADS8568](#) — 16-bit, 8-channel, simultaneous-sampling, bipolar-input, SAR analog-to-digital converter (ADC) [ADS8578S](#) — 14-Bit High-Speed 8-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8584S](#) — 16-Bit High-Speed 4-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8586S](#) — 16-Bit High-Speed 6-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8588H](#) — 16-Bit 500kSPS 8-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8588S](#) — 16-Bit High-Speed 8-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8598H](#) — 18-Bit 500kSPS 8-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8598S](#) — 18-Bit 200kSPS 8-Channel Simultaneous-Sampling ADC With Bipolar Inputs on a Single Supply [ADS8634](#) — 12-Bit 4-Channel Bipolar SAR With Software-Selectable Input Ranges [ADS8638](#) — 12-Bit 8-Channel Bipolar SAR With Software-Selectable Input Ranges [ADS8661](#) — 12-Bit, 1.25-MSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8664](#) — 12-Bit SAR ADC With 4-Channels, 500kSPS, and Bipolar Inputs Off 5V Supply [ADS8665](#) — 12-Bit, 500-kSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8668](#) — 12-Bit 500kSPS 8-Channel SAR ADC With Bipolar Inputs Off 5V Supply [ADS8671](#) — 14-Bit, 1-MSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8674](#) — 14-Bit 500kSPS 4-Channel SAR ADC With Bipolar Inputs Off 5V Supply [ADS8675](#) — 14-Bit, 500-kSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8678](#) — 14-Bit 500kSPS 8-Channel SAR ADC With Bipolar Inputs Off 5V Supply [ADS8681](#) — 16-Bit, 1-MSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8684](#) — 16-Bit, 500-kSPS, 4-Ch SAR ADC w/ programmable ( $\pm 10/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8684A](#) — 16-Bit, 500-kSPS, 4-Ch SAR ADC w/ programmable ( $\pm 10/\pm 5/\pm 2.5$ V) input ranges & ALARM on +5V supply [ADS8685](#) — 16-Bit, 500-kSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8686S](#) — 16-channel 16-bit 1-MSPS dual simultaneous-sampling ADC with integrated analog front end (AFE) [ADS8688](#) — 16-bit, 500-kSPS, 8-channel, single-supply SAR ADC with bipolar input ranges [ADS8688A](#) — 16-bit, 500-kSPS, 8-channel SAR ADC with bipolar inputs using 5-V supply and low-drift VREF [ADS8688AT](#) — 16-bit, 500-kSPS, 8-ch, SAR ADC with bipolar inputs using 5 V, low-drift VREF and wide temp range [ADS8689](#) — 16-Bit, 100-kSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8691](#) — 18-Bit, 1-MSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8694](#) — 18-Bit 500kSPS 4-Channel SAR ADC



With Bipolar Inputs Off 5V Supply [ADS8695](#) — 18-Bit, 500-kSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8698](#) — 18-Bit 500kSPS 8-Channel SAR ADC With Bipolar Inputs Off 5V Supply [ADS8699](#) — 18-Bit, 100-kSPS, 1-Ch SAR ADC with programmable ( $\pm 12/\pm 10/\pm 6/\pm 5/\pm 2.5$ V) input ranges on +5V supply [ADS8860](#) — 16-bit, 1-MSPS, 1-channel SAR ADC with single-ended input, SPI and daisy chain [ADS8861](#) — 16-Bit, 1-MSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8862](#) — 16-Bit, 680-kSPS, 1-Ch SAR ADC with Single-Ended Input, SPI Interface and Daisy-Chain [ADS8863](#) — 16-Bit, 680-kSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8864](#) — 16-Bit, 400-kSPS, 1-Ch SAR ADC with Single-Ended Input, SPI Interface and Daisy-Chain [ADS8865](#) — 16-Bit, 400-kSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8866](#) — 16-Bit, 100-kSPS, 1-Ch SAR ADC with Single-Ended Input, SPI Interface and Daisy-Chain [ADS8867](#) — 16-Bit, 100-kSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8881](#) — 18-Bit, 1-MSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8883](#) — 18-Bit, 680-kSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8885](#) — 18-Bit, 400-kSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8887](#) — 18-Bit, 100-kSPS, 1-Ch SAR ADC with True-Differential Input, SPI Interface and Daisy-Chain [ADS8900B](#) — 20-bit, 1-MSPS, one-channel SAR ADC with internal VREF buffer, internal LDO and enhanced SPI [ADS8902B](#) — 20-bit, 500-kSPS, one-channel SAR ADC with internal VREF buffer, internal LDO and enhanced SPI [ADS8904B](#) — 20-bit, 250-kSPS, one-channel SAR ADC with internal VREF buffer, internal LDO and enhanced SPI [ADS8910B](#) — 18-Bit, 1-MSPS, 1-Ch SAR ADC with Internal VREF Buffer, Internal LDO and Enhanced SPI Interface [ADS8912B](#) — 18-Bit, 500-kSPS, 1-Ch SAR ADC with Internal VREF Buffer, Internal LDO and Enhanced SPI Interface [ADS8914B](#) — 18-Bit, 250-kSPS, 1-Ch SAR ADC with Internal VREF Buffer, Internal LDO and Enhanced SPI Interface [ADS8920B](#) — 16-bit, 1-MSPS, one-channel SAR ADC with internal VREF buffer, internal LDO and enhanced SPI [ADS8922B](#) — 16-bit, 500-kSPS, one-channel SAR ADC with internal VREF buffer, internal LDO and enhanced SPI [ADS8924B](#) — 16-bit, 250-kSPS, one-channel SAR ADC with internal VREF buffer, internal LDO and enhanced SPI [ADS9110](#) — 18-bit, 2-MSPS, one-channel SAR ADC with enhanced serial peripheral interface (SPI) [ADS9120](#) — 16-Bit, 2.5-MSPS, 1-Ch SAR ADC with Enhanced SPI Interface [ADS9218](#) — Two-channel, simultaneous-sampling, 18-bit 10-MSPS SAR ADC with fully-differential ADC input driver [ADS9224R](#) — 16-bit, 3-MSPS, dual-channel, simultaneous-sampling SAR ADC with internal reference and enhanced SPI [ADS9226](#) — 16-bit, 2.048-MSPS, dual-channel, simultaneous-sampling SAR ADC with enhanced SPI [ADS9227](#) — Two-channel, simultaneous-sampling, 16-bit 5-MSPS SAR ADC with fully-differential ADC input driver [ADS9234R](#) — 14-bit, 3.5-MSPS, dual, simultaneous-sampling SAR ADC with internal reference and enhanced SPI [ADS9815](#) — Eight-channel, 18-bit, 1-MSPS/ch dual simultaneous-sampling ADC with integrated analog front end [ADS9817](#) — Eight-channel, 18-bit, 2-MSPS/ch dual simultaneous-sampling ADC with integrated analog front end

#### Biosensing AFEs

[ADS1191](#) — 16-bit, 1-ch, Low-Power Analog Front END (AFE) for ECG Applications [ADS1192](#) — 16-bit, 2-ch, Low-Power Analog Front END (AFE) for ECG Applications [ADS1194](#) — Low-Power, 4-Channel, 16-Bit Analog Front-End for ECG [ADS1196](#) — Low-Power, 6-Channel, 16-Bit Analog Front-End for ECG [ADS1198](#) — Low-Noise, 8 Channel, 16 Bit Analog Front End for ECG/EEG Measurements [ADS1291](#) — 24-bit, 1-ch, Low-Power Analog Front END (AFE) for ECG Applications [ADS1292](#) — 24-bit, 2-ch, Low-Power Analog Front END (AFE) for ECG Applications [ADS1292R](#) — 2-Channel 24-Bit ADC With Integrated Respiration Impedance and ECG Front End [ADS1293](#) — 24-bit, 3-ch, Low-Power Analog Front END (AFE) for ECG Applications [ADS1294](#) — 4-Channel 24-Bit ADC With Integrated ECG Front End [ADS1294R](#) — 4-Channel 24-Bit ADC With Integrated Respiration Impedance and ECG Front End [ADS1296](#) — 6-Channel 24-Bit ADC With Integrated ECG Front End [ADS1296R](#) — 6-Ch 24-Bit ADC With Integrated Respiration Impedance and ECG Front End [ADS1298](#) — 8-Channel 24-bit ADC With Integrated ECG Front End [ADS1298R](#) — 24-Bit 8-Ch Analog Front-End With Integrated Respiration Impedance for ECG [ADS1299](#) — Low-Noise, 8-Channel, 24-Bit Analog-to-Digital Converter for Biopotential Measurements [ADS1299-4](#) — Low-Noise, 4-Channel, 24-Bit Analog-to-Digital Converter for Biopotential Measurements [ADS1299-6](#) — Low-noise, 6-channel, 24-bit analog-to-digital converter for biopotential measurements

#### High-speed ADCs ( $\geq 10$ MSPS)

[ADS2806](#) — Dual-Channel, 12-Bit, 32-MSPS Analog-to-Digital Converter (ADC) [ADS2807](#) — Dual-Channel, 12-Bit, 50-MSPS Analog-to-Digital Converter (ADC) [ADS4122](#) — 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS4125](#) — 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS4126](#) — 12-Bit, 160-MSPS Analog-to-Digital Converter (ADC) [ADS4128](#) — 12-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS4129](#) — 12-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS4142](#) — 14-bit, 65 MSPS, Analog-to-Digital Converter (ADC) [ADS4145](#) — 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS4146](#) — 14-Bit, 160-MSPS Analog-to-Digital Converter (ADC) [ADS4149](#) — 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS41B25](#) — 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS41B29](#) — 12-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS41B49](#) — 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS4222](#) — Dual-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS4225](#) — Dual-Channel, 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS4226](#) — Dual-Channel, 12-Bit, 160-MSPS Analog-to-Digital Converter (ADC) [ADS4229](#) — Dual-Channel, 12-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS4242](#) — Dual-Channel, 14-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS4245](#) — Dual-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS4245-EP](#) — Dual-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC)- Enhanced Product [ADS4246](#) — Dual-Channel, 14-Bit, 160-MSPS Analog-to-Digital Converter (ADC) [ADS4249](#) — Dual-Channel, 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS42B49](#) — Dual-Channel, 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS42JB46](#) — Dual-Channel, 14-Bit, 160-MSPS Analog-to-Digital Converter (ADC) [ADS42JB49](#) — Dual-Channel, 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS42JB69](#) — Dual-Channel, 16-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS42LB49](#) — Dual-Channel, 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS4449](#) — Quad-Channel, 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS5231](#) — Dual-Channel, 12-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS5232](#) — Dual-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS5237](#) — Dual-Channel, 10-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS5240](#) — Quad-Channel, 12-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS5242](#) — Quad-Channel, 12-Bit, 65-MSPS Analog-to-Digital



Converter (ADC) [ADS5263](#) — Quad-Channel, 16-Bit, 100-MSPS Analog-to-Digital Converter (ADC) [ADS5270](#) — Eight-Channel, 12-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS5271](#) — Eight-Channel, 12-Bit, 50-MSPS Analog-to-Digital Converter (ADC) [ADS5272](#) — Eight-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS5273](#) — Eight-Channel, 12-Bit, 70-MSPS Analog-to-Digital Converter (ADC) [ADS5277](#) — Eight-Channel, 10-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS5281](#) — Eight-Channel, 12-Bit, 50-MSPS Analog-to-Digital Converter (ADC) [ADS5282](#) — Eight-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS5287](#) — Eight-Channel, 10-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS5292](#) — Eight-Channel, 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS5294](#) — Eight-Channel, 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS5295](#) — Octal Channel 12-Bit, 100MSPS High-SNR and Low-Power ADC [ADS5296A](#) — 10-Bit, 200-MSPS, 4 or 8-Channel / 12-Bit, 80-MSPS, 8-Channel ADC [ADS52J65](#) — 8-channel 16-bit 125-MSPS analog-to-digital converter (ADC) with JESD204B interface [ADS52J90](#) — 14-bit multichannel low-power high-speed analog-to-digital converter (ADC) [ADS52J91](#) — 10-bit, 12-bit, and 14-bit, multichannel, low-power ADC with LVDS and JESD outputs [ADS5400](#) — 12-bit 1-GSPS analog-to-digital converter (ADC) [ADS5400-SP](#) — QMLV, 50-krad, ceramic, 12-bit, single-channel, 1-GSPS ADC [ADS5401](#) — 12-Bit, 800-MSPS Analog-to-Digital Converter (ADC) [ADS5402](#) — Dual-Channel, 12-Bit, 800-MSPS Analog-to-Digital Converter (ADC) [ADS5403](#) — 12-Bit, 500-MSPS Analog-to-Digital Converter (ADC) [ADS5404](#) — Dual-Channel, 12-Bit, 500-MSPS Analog-to-Digital Converter (ADC) [ADS5407](#) — Dual-Channel, 12-Bit, 500-MSPS Analog-to-Digital Converter (ADC) [ADS5409](#) — Dual-Channel, 12-Bit, 900-MSPS Analog-to-Digital Converter (ADC) [ADS5411](#) — 11-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS5413](#) — 12-Bit, 65-MSPS, 1.0-GHz Input Bandwidth Analog-to-Digital Converter (ADC) [ADS5421](#) — 14-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS5422](#) — 14-Bit, 62-MSPS Analog-to-Digital Converter (ADC) [ADS5423](#) — 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS5424](#) — 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS5424-SP](#) — QMLV, 150-krad, ceramic, 14-bit, single-channel, 125-MSPS ADC [ADS5440](#) — 13-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS5440-EP](#) — 13-Bit, 210-MSPS Analog-to-Digital Converter (ADC) - Enhanced-Product [ADS5444](#) — 13-bit 250-MSPS analog-to-digital converter (ADC) [ADS5444-EP](#) — 13-bit 250-MSPS analog-to-digital converter (ADC) - enhanced product [ADS5444-SP](#) — QMLV, ceramic, 13-bit, single-channel, 250-MSPS ADC [ADS5463](#) — 12-bit 500-MSPS analog-to-digital converter (ADC) [ADS5463-EP](#) — 12-bit 500-MSPS analog-to-digital converter (ADC) - enhanced product [ADS5463-SP](#) — Radiation-hardness-assured (RHA), QMLV, 100-krad, ceramic, 12-bit, single, 500-MSPS ADC [ADS5474](#) — 14-bit 400-MSPS analog-to-digital converter (ADC) [ADS5474-SP](#) — Radiation-hardness-assured (RHA), QMLV, 100-krad, ceramic, 14-bit, single, 400-MSPS ADC [ADS5481](#) — 16-bit, 80-MSPS analog-to-digital converter (ADC) with high SFDR and LVDS outputs [ADS5482](#) — 16-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS5483](#) — 16-Bit, 135-MSPS Analog-to-Digital Converter (ADC) [ADS5484](#) — 16-Bit, 170-MSPS Analog-to-Digital Converter (ADC) [ADS5485](#) — 16-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS54J20](#) — Dual-Channel, 12-Bit, 1.0-GSPS Analog-to-Digital Converter (ADC) [ADS54J40](#) — Dual-Channel, 14-Bit, 1.0-GSPS Analog-to-Digital Converter (ADC) [ADS54J42](#) — Dual-Channel, 14-Bit, 625-MSPS Analog-to-Digital Converter (ADC) [ADS54J54](#) — Quad-Channel, 14-Bit, 500-MSPS Analog-to-Digital Converter (ADC) [ADS54J60](#) — Dual-Channel, 16-Bit, 1.0-GSPS Analog-to-Digital Converter (ADC) [ADS54J64](#) — Quad-Channel, 14-Bit, 1-GSPS, 2x-Oversampling Analog-to-Digital Converter (ADC) [ADS54J66](#) — Quad-Channel, 14-Bit, 500-MSPS Analog-to-Digital Converter (ADC) [ADS54J69](#) — Dual-Channel, 16-Bit, 500-MSPS Analog-to-Digital Converter (ADC) [ADS54RF63](#) — 12-Bit, 550-MSPS, RF Sampling Analog-to-Digital Converter (ADC) [ADS5500](#) — 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS5500-EP](#) — 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC)- Enhanced Product [ADS5510](#) — 11-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS5517](#) — 11-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS5520](#) — 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS5521](#) — 12-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS5522](#) — 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS5525](#) — 12-Bit, 170-MSPS Analog-to-Digital Converter (ADC) [ADS5527](#) — 12-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS5541](#) — 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS5542](#) — 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS5545](#) — 14-Bit, 170-MSPS Analog-to-Digital Converter (ADC) [ADS5546](#) — 14-Bit, 190-MSPS Analog-to-Digital Converter (ADC) [ADS5547](#) — 14-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS5553](#) — Dual-Channel, 14-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS5560](#) — 16-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS5562](#) — 16-bit, 80-MSPS analog-to-digital converter (ADC) with high SNR and CMOS/LVDS outputs [ADS58B18](#) — 11-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS58B19](#) — 9-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS58C28](#) — Dual-Channel, 11-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS58C48](#) — Quad-Channel, 11-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS6122](#) — 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS6123](#) — 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS6124](#) — 12-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS6125](#) — 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS6128](#) — 12-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS6129](#) — 12-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS6142](#) — 14-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS6143](#) — 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS6144](#) — 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS6145](#) — 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS6148](#) — 14-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS6149](#) — 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS61B23](#) — 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS61B29](#) — 12-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS61B49](#) — 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS61JB23](#) — 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS61JB46](#) — 14-Bit, 160-MSPS Analog-to-Digital Converter (ADC) [ADS6222](#) — Dual-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS6224](#) — Dual-Channel, 12-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS6225](#) — Dual-Channel, 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS6242](#) — Dual-Channel, 14-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS6243](#) — Dual-Channel, 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS6244](#) — Dual-Channel, 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS6245](#) — Dual-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS62C15](#) — Dual-Channel, 11-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS62C17](#) — Dual-Channel, 11-Bit, 200-MSPS Analog-to-Digital Converter (ADC) [ADS62P15](#) — Dual-Channel, 11-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS62P19](#) — Dual-Channel, 11-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS62P22](#) — Dual-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS62P23](#) — Dual-Channel, 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS62P24](#) — Dual-Channel, 12-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS62P25](#) — Dual-Channel, 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS62P28](#) — Dual-Channel, 12-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS62P29](#) — Dual-Channel, 12-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS62P42](#) — Dual-Channel, 14-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS62P43](#) — Dual-Channel, 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS62P44](#) — Dual-Channel, 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS62P45](#) —

Dual-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS62P48](#) — Dual-Channel, 14-Bit, 210-MSPS Analog-to-Digital Converter (ADC) [ADS62P49](#) — Dual-Channel, 14-Bit, 250-MSPS Analog-to-Digital Converter (ADC) [ADS6422](#) — Quad-Channel, 12-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS6423](#) — Quad-Channel, 12-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS6424](#) — Quad-Channel, 12-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS6425](#) — Quad-Channel, 12-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS6442](#) — Quad-Channel, 14-Bit, 65-MSPS Analog-to-Digital Converter (ADC) [ADS6443](#) — Quad-Channel, 14-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS6444](#) — Quad-Channel, 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) [ADS6444-EP](#) — Quad-Channel, 14-Bit, 105-MSPS Analog-to-Digital Converter (ADC) - Enhanced-Product [ADS6445](#) — Quad-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) [ADS6445-EP](#) — Quad-Channel, 14-Bit, 125-MSPS Analog-to-Digital Converter (ADC) - Enhanced-Product [ADS800](#) — 12-Bit, 40 MSPS ADC SE/Diff inputs. Internal References, pin compatible to ADS801/2 [ADS801](#) — 12-Bit, 25 MSPS ADC SE/Diff inputs. Internal References, pin compatible to ADS800/2 [ADS802](#) — 12-Bit, 10-MSPS Analog-to-Digital Converter (ADC) [ADS803](#) — 12-Bit, 5-MSPS Analog-to-Digital Converter (ADC) [ADS804](#) — 12-Bit, 10-MSPS Analog-to-Digital Converter (ADC) [ADS805](#) — 12-Bit, 20-MSPS Analog-to-Digital Converter (ADC) [ADS807](#) — 12-Bit, 53-MSPS Analog-to-Digital Converter (ADC) [ADS820](#) — 10-Bit, 20-MSPS Analog-to-Digital Converter (ADC) [ADS821](#) — 10-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS822](#) — 10-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS825](#) — 10-Bit, 40-MSPS Analog-to-Digital Converter (ADC) [ADS828](#) — 10-Bit, 75-MSPS Analog-to-Digital Converter (ADC) [ADS830](#) — 8-Bit, 60-MSPS Analog-to-Digital Converter (ADC) [ADS831](#) — 8-Bit, 80-MSPS Analog-to-Digital Converter (ADC) [ADS850](#) — 14-Bit, 10-MSPS Analog-to-Digital Converter (ADC) [ADS900](#) — 10-Bit, 20-MSPS Analog-to-Digital Converter (ADC) [ADS901](#) — 10-Bit, 20-MSPS Analog-to-Digital Converter (ADC) [ADS930](#) — 8-Bit, 30 MSPS ADC SE/Diff Inputs w/ Internal Ref. and Low Power, Powerdown

#### Receivers

[ADS54T01](#) — 1-ch 750MSPS BTS Feedback and Receiver IC [ADS54T02](#) — 2-ch 750MSPS BTS Feedback and Receiver IC [ADS54T04](#) — 2-ch 500MSPS BTS Feedback and Receiver IC [ADS58C20](#) — Dual Channel IF BTS Receiver with Signal Processing for multi-mode 3G+LTE+GSM [ADS58C23](#) — Dual Channel IF BTS Receiver with Signal Processing for multi-mode 3G+LTE [ADS58H40](#) — Quad-Channel, 14-Bit, 250-MSPS Receiver and Feedback IC [ADS58H43](#) — Quad-Channel, 14-Bit, 250-MSPS Receiver and Feedback IC [ADS58J63](#) — Quad Channel 14-bit 500 Mps Telecom Receiver IC [ADS58J64](#) — Quad-channel, 14-bit, 1-GSPS telecom receiver and feedback IC [ADS58J89](#) — Quad 500MSPS Receiver and Feedback IC [ADS62PF49](#) — Dual Channel 250MSPS Feedback Receiver IC

#### Touchscreen controllers

[ADS7843](#) — 12-bit Analog-to-Digital Converter (ADC) with a synchronous serial interface and touch screen con [ADS7843-Q1](#) — Automotive 4-wire Touch Screen Controller [ADS7845](#) — 5-wire Touch Screen Controller [ADS7846](#) — 4-wire Touch Screen Controller

#### Difference amplifiers

[INA105](#) — Precision Unity Gain Differential Amplifier [INA106](#) — Precision Fixed-Gain Differential Amplifier [INA117](#) — High Common-Mode Voltage Difference Amplifier [INA132](#) — Low Power, Single-Supply Difference Amplifier [INA133](#) — 1.5-MHz, 450- $\mu$ V offset, 0.95-mA power, precision difference amplifier [INA143](#) — High speed (5-V/ $\mu$ s), 250- $\mu$ V offset, G= 10 or G= 0.1 precision difference amplifier [INA145](#) — Programmable Gain Difference Amplifier [INA146](#) — High-Voltage, Programmable Gain Difference Amplifier [INA148](#) — +200V Common-Mode Voltage Difference Amplifier [INA148-Q1](#) — Automotive +200V Common-Mode Voltage Difference Amplifier [INA149](#) — High Common Mode Voltage Difference Amplifier [INA149-EP](#) — Enhanced Product High Common Mode Voltage Difference Amplifier [INA152](#) — Single-Supply Difference Amplifier [INA154](#) — High-Speed, Precision Difference Amplifier (G = 1) [INA157](#) — High-Speed, Precision Difference Amplifier [INA159](#) — High-Speed, Precision Gain of 0.2 Level Translation Difference Amplifier [INA159-EP](#) — Enhanced Product Precision, Gain of 0.2 Level Translation Difference Amplifier [INA2132](#) — Dual, Low Power, Single-Supply Difference Amplifier [INA2133](#) — Dual 1.5-MHz, 450- $\mu$ V offset, 0.95-mA power, precision difference amplifier [INA2143](#) — Dual high-speed (5-V/ $\mu$ s), 250- $\mu$ V offset, g= 10 or g= 0.1 precision difference amplifier [INA500](#) — Low-power, 1-M $\Omega$  RIN, 20- $\mu$ A IQ, small-size attenuating difference amplifier [INA592](#) — High-precision (40- $\mu$ V offset), 2-MHz, 88-dB CMRR, low-power, e-trim™ difference amplifier [INA597](#) — Precision (200 $\mu$ V offset), 2MHz, 88 dB CMRR, low power, e-trim™ difference amplifier

#### Instrumentation amplifiers

[INA101](#) — Very High Accuracy Instrumentation Amplifier [INA103](#) — Low Noise, Low Distortion Instrumentation Amplifier [INA110](#) — Fast-Settling FET-Input Very High Accuracy Instrumentation Amplifier [INA111](#) — High Speed FET-Input Instrumentation Amplifier [INA114](#) — 1-MHz, 50- $\mu$ V, 11-nV/ $\sqrt$ Hz, 3mA-power, precision instrumentation amplifier [INA115](#) — 1-MHz, 50- $\mu$ V, 11-nV/ $\sqrt$ Hz, 3mA-power, switched gain enabled precision instrumentation amplifier [INA116](#) — Ultra Low Input Bias Current Instrumentation Amplifier [INA118](#) — Precision, Low Power Instrumentation Amplifier [INA121](#) — FET-Input, Low Power Instrumentation Amplifier [INA122](#) — Single Supply, MicroPower Instrumentation Amplifier [INA125](#) — Instrumentation Amplifier with Precision Voltage Reference [INA125-DIE](#) — Instrumentation Amplifier with Precision Voltage Reference [INA126](#) — 36V microPower (175- $\mu$ A), 250- $\mu$ V offset, precision instrumentation amplifier [INA128](#) — Precision, 130-dB CMRR, 700- $\mu$ A, Low-Power, Instrumentation Amplifier [INA128-HT](#) — High Temperature Precision Low Power Instrumentation Amplifiers. [INA129](#) — Precision, Low Power Instrumentation Amplifiers [INA129-EP](#) — Enhanced Product Precision, Low Power Instrumentation Amplifiers [INA129-HT](#) — High Temperature Precision, Low Power Instrumentation Amplifiers [INA131](#) — Precision G = 100 Instrumentation Amplifier [INA141](#) — Precision, Low Power, G = 10, 100 Instrumentation Amplifier [INA155](#) — 5.5-V single-Supply, 550-KHz (G=10), 6.5-V/ $\mu$ s slew rate, 1-mV offset, RRO, CMOS instrumentation a [INA156](#) — 5.5-V single-supply, 550-kHz (G=10), 6.5-V/ $\mu$ s slew rate, 8-mV offset, RRO, CMOS instrumenta [INA163](#) — Low-Noise Low-Distortion Instrumentation Amplifier [INA166](#) — Low-Noise, Low-Distortion, G=2000 Instrumentation Amplifier [INA188](#) — 36-V, Zero-Drift, Rail-to-Rail-Out Instrumentation Amplifier [INA2126](#) — Dual 36-V



micropower (175- $\mu$ A), 250- $\mu$ V offset, precision instrumentation amplifier [INA2128](#) — Dual, Low Power Instrumentation Amplifier [INA2141](#) — Dual, Low Power,  $G = 10, 100$  Instrumentation Amplifier [INA217](#) — Low Noise, Low-Distortion Instrumentation Amplifier Replacement for SSM2017 [INA2321](#) — Dual micropower (40- $\mu$ A) plus shutdown, 500- $\mu$ V offset, 10-pA bias, RRO instrumentation amp [INA2331](#) — Low-power, single-supply, CMOS, instrumentation amplifier [INA2332](#) — Low-Power, Single-Supply, CMOS Instrumentation Amplifiers [INA317](#) — Micro-power (50 $\mu$ A), zero-drift (75 $\mu$ V offset, 0.3 $\mu$ V/ $^{\circ}$ C), precision RRO instrumentation amplifier [INA321](#) — Micropower (40- $\mu$ A) plus shutdown, 500- $\mu$ V offset, 10-pA bias, RRO instrumentation amp [INA322](#) — Micropower (40- $\mu$ A) plus shutdown, 2-mV offset, 10-pA bias, RRO instrumentation amp [INA326](#) — Precision, Low Drift, CMOS Instrumentation Amplifier [INA327](#) — Precision, Low Drift, CMOS Instrumentation Amplifier with Shutdown [INA330](#) — Thermistor Signal Amplifier for Temperature Control [INA331](#) — Low-Power, Single Supply, CMOS, Instrumentation Amplifier [INA332](#) — Low-power, single-supply, CMOS, low-cost, instrumentation amplifier [INA333](#) — Low-Power, Zero-Drift, Precision Instrumentation Amplifier [INA333-HT](#) — High Temperature Low Power, Precision Instrumentation Amplifier [INA333-Q1](#) — Automotive low-power, zero-drift, precision instrumentation amplifier [INA337](#) — Wide-Temperature, Precision Instrumentation Amplifier [INA338](#) — Wide-Temperature, Precision Instrumentation Amplifier with Shutdown [INA350](#) — Low-power (100  $\mu$ A) selectable-gain instrumentation amplifier available in 8-pin WSON (2 mm by 2 mm) [INA351](#) — Tiny (1.5-mm  $\times$  2-mm) low-power (110  $\mu$ A) instrumentation amplifier with integrated reference buffer [INA351A](#) — Low-power (110  $\mu$ A) instrumentation amplifier with integrated reference amp to enable calibration [INA818](#) — Low power (350- $\mu$ A), precision instrumentation amp with  $\pm 60$ -V overvoltage protection (gain pins 1, 8) [INA819](#) — Low power (350- $\mu$ A), precision instrumentation amp with  $\pm 60$ -V overvoltage protection (gain pins 2, 3) [INA821](#) — High bandwidth (4.7MHz), low noise (7nV/ $\sqrt$ Hz), precision (35 $\mu$ V), low-power, instrumentation amp [INA823](#) — Precision (100  $\mu$ V), low-power (250  $\mu$ A), wide-supply (2.7 V to 36 V), instrumentation amplifier [INA826](#) — Precision, 200- $\mu$ A Supply Current, 36-V Supply Instrumentation Amplifier [INA826S](#) — 200  $\mu$ A, 36V, Rail-to-Rail Out Instrumentation Amplifier with Shutdown [INA827](#) — Precision,  $G > 5$ , 200uA, 2.7-V to 36-V Supply Instrumentation Amplifier [INA828](#) — 50- $\mu$ V Offset, 7-nV/ $\sqrt$ Hz Noise, Low-Power, Precision Instrumentation Amplifier [INA848](#) — Ultra-low-noise, high-bandwidth instrumentation amplifier with fixed gain of 2000 [INA849](#) — Ultra-low noise (1 nV/ $\sqrt$ Hz), high-speed (28 MHz, 35 V/ $\mu$ s) precision (35  $\mu$ V) instrumentation amplifier [INA851](#) — Low-noise (3.2 nV/ $\sqrt$ Hz) high-speed (22 MHz) fully-differential instrumentation amp with OVP ( $\pm 40$  V)

#### Audio line receivers

[INA134](#) — Single, Audio Differential Line Receivers, 0dB ( $G=1$ ) [INA137](#) — Single, Audio Differential Line Receivers,  $+6$ dB ( $G=1/2$  or 2) [INA1650](#) — Dual SoundPlus™ high common-mode rejection (91-dB), low THD+N ( $-120$ -dB) differential line receiver [INA1650-Q1](#) — Automotive, High Common-mode Rejection, Low Distortion Differential Audio Line Receiver [INA1651](#) — Soundplus™ high common-mode rejection (91-dB), low THD+N ( $-120$  dB) differential line receiver [INA1651-Q1](#) — SoundPlus™ high common-mode rejection, low distortion differential line receiver for automotive [INA2134](#) — Dual, audio differential line receivers, 0 dB ( $g=1$ ) [INA2134-EP](#) — Enhanced Product Audio Differential Line Receiver 0dB ( $G = 1$ ) [INA2137](#) — Dual, audio differential line receivers,  $\pm 6$  dB ( $g=1/2$  or 2)

#### Analog current-sense amplifiers

[INA138](#) — 2.7 to 36V, 800kHz Variable gain current sense amplifier [INA138-Q1](#) — AEC-Q100, 2.7 to 36V, 800kHz Variable gain current sense amplifier [INA139](#) — 2.7 to 36V, 440kHz Variable gain current sense amplifier [INA139-Q1](#) — AEC-Q100, 2.7 to 36V, 440kHz Variable gain current sense amplifier [INA168](#) — 2.7 to 60V, 800kHz Variable gain current sense amplifier [INA168-Q1](#) — AEC-Q100, 2.7 to 60V, 800kHz Variable gain current sense amplifier [INA169](#) — 2.7 to 60V, 440kHz Variable gain current sense amplifier [INA169-Q1](#) — AEC-Q100, 2.7 to 60V, 440kHz Variable gain current sense amplifier [INA170](#) — 2.7 to 60V, bi-directional, 400kHz Variable gain current sense amplifier [INA180](#) — 26V, 350kHz current sense amplifier [INA180-Q1](#) — AEC-Q100, 26V, 350kHz current sense amplifier [INA181](#) — 26-V bi-directional 350-kHz current-sense amplifier [INA181-Q1](#) — AEC-Q100, 26V, bi-directional, 350kHz current sense amplifier [INA183](#) — 2.7-V to 26-V, high-precision current sense amplifier with input supply [INA185](#) — 26-V, 350-kHz, bi-directional, high-precision current sense amplifier in ultra-small SOT-563 package [INA186](#) — 40-V, bidirectional, high-precision current sense amplifier with picoamp input bias & ENABLE [INA186-Q1](#) — AEC-Q100, 40-V, bidirectional, high-precision current sense amplifier w/ picoamp input bias & ENABLE [INA190](#) — 40-V, bidirectional, ultraprecise current sense amplifier with picoamp IB & ENABLE [INA190-EP](#) — Enhanced product, 40-V, bidirectional, ultraprecise current sense amplifier with picoamp IB & EN [INA190-Q1](#) — AEC-Q100, 40V, bi-directional, ultra-precise current sense amplifier w/picoamp IB & ENABLE [INA191](#) — 40V, ultra-precise current sense amplifier with ENABLE and picoamp IB in WCSP [INA193](#) — -16 to 80V, 500kHz current sense amplifier [INA193A-EP](#) — Enhanced product, -16 to 80V, 500-kHz current sense amplifier [INA193A-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier [INA194](#) — -16 to 80V, 500kHz current sense amplifier [INA194A-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier [INA195](#) — -16 to 80V, 500kHz current sense amplifier [INA195A-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier [INA196](#) — -16 to 80V, 500kHz current sense amplifier [INA196A-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier [INA197](#) — -16 to 80V, 500kHz current sense amplifier [INA197A-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier [INA198](#) — -16 to 80V, 500kHz current sense amplifier [INA198A-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier [INA199](#) — 26V, bi-directional current sense amplifier [INA199-Q1](#) — AEC-Q100, 26V, bi-directional current sense amplifier [INA200](#) — -16 to 80V, 500kHz current sense amplifier w/ comparator [INA200-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier w/ comparator [INA201](#) — -16 to 80V, 500kHz current sense amplifier w/ comparator [INA201-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier w/ comparator [INA202](#) — -16 to 80V, 500kHz current sense amplifier w/ comparator [INA202-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier w/ comparator [INA203](#) — -16 to 80V, 500kHz current sense amplifier w/ dual comparators [INA203-Q1](#) — AEC-Q100, -16 to 80V, 500kHz current sense amplifier w/ dual comparators [INA204](#) — -16 to 80V, 500kHz current sense amplifier w/ dual comparators [INA205](#) — -16 to 80V, 500kHz current sense amplifier w/ dual comparators [INA206](#) — -16 to 80V, 500kHz current sense amplifier w/ window comparator [INA207](#) — -16 to 80V, 500kHz current sense amplifier w/ window comparator [INA208](#) — -16 to 80V, 500kHz current sense amplifier w/ window comparator [INA210](#) — 26V, bi-directional, high-precision current sense amplifier [INA210-Q1](#) — AEC-Q100, 26V, bi-directional, high-precision current sense amplifier [INA211](#) — 26V, bi-directional, high-precision current sense amplifier [INA211-Q1](#) — AEC-Q100, 26V, bi-directional, high-precision current sense amplifier [INA212](#) — 26V, bi-directional, high-precision current



sense amplifier [INA212-Q1](#) — AEC-Q100, 26V, bi-directional, high-precision current sense amplifier [INA213](#) — 26V, bi-directional, high-precision current sense amplifier [INA213-Q1](#) — AEC-Q100, 26V, bi-directional, high-precision current sense amplifier [INA214](#) — 26V, bi-directional, high-precision current sense amplifier [INA214-Q1](#) — AEC-Q100, 26V, bi-directional, high-precision current sense amplifier [INA215](#) — 26V, bi-directional, high-precision current sense amplifier [INA215-Q1](#) — AEC-Q100, 26V, bi-directional, high-precision current sense amplifier [INA216](#) — 1.8 to 5.5V, high-precision current sense amplifier in wesp [INA2180](#) — 26V, dual channel, 350kHz current sense amplifier [INA2180-Q1](#) — AEC-Q100, 26V, dual channel, 350kHz current sense amplifier [INA2181](#) — 26V, dual channel, bi-directional, 350kHz current sense amplifier [INA2181-Q1](#) — AEC-Q100, 26V, dual channel, bi-directional, 350kHz current sense amplifier [INA2191](#) — 40-V, dual-channel, bidirectional, ultraprecise current sense amp w/ picoamp IB & ENABLE in wesp [INA223](#) — 26V, programmable-gain current sense amplifier & analog power monitor [INA225](#) — 36V, bi-directional current sense amplifier w/ four pin-selectable gain settings [INA225-Q1](#) — AEC-Q100, 36V, bi-directional current sense amplifier w/ four pin-selectable gain settings [INA2290](#) — Dual-channel, 2.7-V to 120-V, 1.1-MHz, ultra-precise current sense amplifier [INA240](#) — -4 to 80V, bidirectional, ultra-precise current sense amplifier with enhanced PWM rejection [INA240-Q1](#) — AEC-Q100, -4 to 80V, bi-directional, ultra-precise current sense amplifier w/ enhanced pwm rejection [INA240-SEP](#) — -4 to 80V, ultra-precise current sense amplifier w/ enhanced pwm rejection in space enhanced plastic [INA241A](#) — -5-V to 110-V bidirectional ultraprecise current sense amplifier with enhanced PWM rejection [INA241A-Q1](#) — AEC-Q100, -4-V to 110-V bidirectional ultraprecise current sense amp with enhanced PWM rejection [INA241B](#) — -5-V to 110-V bidirectional high-precision current sense amplifier with enhanced PWM rejection [INA241B-Q1](#) — AEC-Q100, -4-V to 110-V bidirectional high-precision current sense amp with enhanced PWM rejection [INA270](#) — -16 to 80V, split-stage current sense amplifier w/ in-line filter capability [INA270A-Q1](#) — AEC-Q100, -16 to 80V, split-stage current sense amplifier w/ in-line filter capability [INA271](#) — -16 to 80V, split-stage current sense amplifier w/ in-line filter capability [INA271-HT](#) — High temp, -16 to 80V, split-stage current sense amplifier w/ in-line filter capability [INA271A-Q1](#) — AEC-Q100, -16 to 80V, split-stage current sense amplifier w/ in-line filter capability [INA280](#) — 2.7-V to 120-V, 1.1-MHz, high-precision current sense amplifier in small (SC-70) package [INA280-Q1](#) — AEC-Q100, 2.7-V to 120-V, 1.1-MHz current sense amplifier in small (SC-70) package [INA281](#) — -4-V to 110-V, 1.3-MHz, high-precision current sense amplifier [INA281-Q1](#) — AEC-Q100, -4-V to 110-V, 1.3-MHz current sense amplifier [INA282](#) — -14 to 80V, bi-directional current sense amplifier [INA282-Q1](#) — AEC-Q100, -14 to 80V, bi-directional current sense amplifier [INA283](#) — -14 to 80V, bi-directional current sense amplifier [INA283-Q1](#) — AEC-Q100, -14 to 80V, bi-directional current sense amplifier [INA284](#) — -14 to 80V, bi-directional current sense amplifier [INA284-Q1](#) — AEC-Q100, -14 to 80V, bi-directional current sense amplifier [INA285](#) — -14 to 80V, bi-directional current sense amplifier [INA285-Q1](#) — AEC-Q100, -14 to 80V, bi-directional current sense amplifier [INA286](#) — -14 to 80V, bi-directional current sense amplifier [INA286-Q1](#) — AEC-Q100, -14 to 80V, bi-directional current sense amplifier [INA290](#) — 2.7 to 120V, 1.1MHz, ultra-precise current sense amplifier in small (SC-70) package [INA290-Q1](#) — AEC-Q100, 2.7-V to 120-V, 1.1-MHz, ultra-precise current sense amplifier in small (SC-70) package [INA293](#) — -4-V to 110-V, 1.3-MHz, ultra-precise current sense amplifier [INA293-Q1](#) — AEC-Q100, -4-V to 110-V, 1.3-MHz, ultra-precise current sense amplifier [INA296A](#) — -5-V to 110-V, bidirectional, 1.1-MHz 8-V/μs ultraprecise current sense amplifier [INA296A-Q1](#) — AEC-Q100, -5-V to 110-V, bidirectional, 1.1-MHz 8-V/μs ultraprecise current sense amplifier [INA296B](#) — -5-V to 110-V, bidirectional, 1.1-MHz 8-V/μs high-precision current sense amplifier [INA296B-Q1](#) — AEC-Q100, -5-V to 110-V, bidirectional, 1.1-MHz 8-V/μs high-precision current sense amplifier [INA300](#) — 36V current sense comparator [INA300-Q1](#) — AEC-Q100, 36V current sense comparator [INA301](#) — 36V, 550kHz, 4V/μs, high-precision current sense amplifier w/ comparator [INA301-Q1](#) — AEC-Q100, 36V, 550kHz, 4V/μs, high-precision current sense amplifier w/ comparator [INA302](#) — 36V, bi-directional, 550kHz, 4V/μs, high-precision current sense amplifier w/ dual comparators [INA302-Q1](#) — AEC-Q100, 36V, bi-directional, 550kHz, 4V/μs, high-precision current sense amp w/ dual comparators [INA303](#) — 36V, bi-directional, 550kHz, 4V/μs, high-precision current sense amplifier w/ window comparator [INA303-Q1](#) — AEC-Q100, 36V, bi-directional, 550kHz, 4V/μs, high-precision current sense amp w/ window comparator [INA310A](#) — -4-V to 110-V, 1.3-MHz, ultra-precise current-sense amplifier with comparator [INA310A-Q1](#) — AEC-Q100 -4-V to 110-V 1.3-MHz ultra-precise current-sense amplifier with comparator and reference [INA310B](#) — -4-V to 110-V 1.3-MHz high-precision current-sense amplifier with comparator [INA310B-Q1](#) — AEC-Q100 -4-V to 110-V 1.3-MHz high precision current-sense amplifier with comparator and reference [INA381](#) — 26-V, 350-kHz current sense amplifier with integrated over-current comparator [INA381-Q1](#) — AEC-Q100, 26-V, 350-kHz current sense amplifier with integrated overcurrent comparator [INA4180](#) — 26V, quad channel, 350kHz current sense amplifier [INA4180-Q1](#) — AEC-Q100, 26V, quad channel, 350kHz current sense amplifier [INA4181](#) — 26V, quad channel, bi-directional, 350kHz current sense amplifier [INA4181-Q1](#) — AEC-Q100, 26V, quad channel, bi-directional, 350kHz current sense amplifier [INA4290](#) — Quad-channel, 120-V, high-voltage, high-bandwidth, unidirectional current sense amplifier [INA901-SP](#) — Radiation hardened, -15-V to 65-V, split-stage current sense amplifier with in-line filter option

#### Digital power monitors

[INA209](#) — 26V, 12-bit, i2c output current/voltage/power monitor w/ analog comparator [INA219](#) — 26-V 12-bit I2C output digital power monitor [INA220](#) — 26V, 12-bit, i2c output current/voltage/power monitor [INA220-Q1](#) — AEC-Q100, 26V, 12-bit, i2c output current/voltage/power monitor [INA226](#) — 36V, 16-bit, ultra-precise i2c output current/voltage/power monitor w/alert [INA226-Q1](#) — AEC-Q100, 36V, 16-bit, ultra-precise, i2c output current/voltage/power monitor w/alert [INA228](#) — 85-V, 20-bit, ultra-precise, I2C output current/voltage/power/energy/charge monitor with alert [INA228-Q1](#) — AEC-Q100, 85-V, 20-bit, ultraprecise, I2C output current/voltage/power/energy/charge monitor [INA229](#) — 85-V, 20-bit, ultra-precise, SPI output current/voltage/power/energy/charge monitor with alert [INA229-Q1](#) — AEC-Q100, 85-V, 20-bit, ultraprecise, SPI output current/voltage/power/energy/charge monitor [INA230](#) — 36-V, 16-bit, I2C output current, voltage and power monitor with alert [INA231](#) — 28V, 16-bit, i2c output current/voltage/power monitor w/alert in wesp [INA232](#) — 48-V, 16-bit high-precision I2C output digital power monitor with alert [INA233](#) — 36V, 16-bit, ultra-precise i2c & pmbus output current/voltage/power/energy monitor w/alert [INA234](#) — 28-V, 12-bit, I2C output current/voltage/power monitor with alert in WCSP [INA236](#) — 48-V, 16-bit ultraprecise I2C output digital power monitor with alert in WCSP [INA237](#) — 85-V, 16-bit, I2C output current/voltage/power monitor with alert [INA237-Q1](#) — AEC-Q100, 85-V, 16-bit, I2C output current/voltage/charge monitor [INA238](#) — 85-V, 16-bit, high-precision I2C output current/voltage/power monitor with alert [INA238-Q1](#) — AEC-Q100, 85-V, 16-bit, high-precision, I2C output current/voltage/charge monitor [INA239](#) — 85-V, 16-bit, high-precision, SPI output current/voltage/power monitor with alert [INA239-Q1](#) — AEC-Q100, 85-V, 16-bit, high-precision, SPI output current/voltage/power monitor [INA3221](#) — 26V, triple channel, 13-bit, i2c output

current/voltage monitor w/alerts [INA3221-Q1](#) — AEC-Q100, 26V, triple channel, 13-bit, i2c output current/voltage monitor w/alerts

#### Analog current-sense amplifiers with integrated shunt resistor

[INA250](#) — 36V, bi-directional, precision current sense amplifier w/int. shunt resistor [INA250-Q1](#) — AEC-Q100, 36V, bi-directional, precision current sense amplifier w/int. shunt resistor [INA253](#) — 80V, bi-directional, precision current sense amp w/pwm rejection & int. shunt resistor [INA253-Q1](#) — AEC-Q100, 80V, bi-directional, precision current sense amp w/pwm rejection & int. shunt resistor [INA254](#) — 80-V, bidirectional  $\pm 75$ -A zero-drift current-sense amplifier with PWM rejection and shunt resistor

#### Digital power monitors with integrated shunt resistor

[INA260](#) — 36V, 16-bit, precision i2c output current/voltage/power monitor w/ int. shunt resistor [INA700](#) — 40-V 16-Bit I<sup>2</sup>C output digital power monitor in WCSP with EZShunt™ Technology [INA740A](#) — 85-V, 16-bit high-precision I<sup>2</sup>C-output digital power monitor with 800- $\mu\Omega$  EZShunt™ Technology [INA740B](#) — 85-V 16-bit I<sup>2</sup>C-output digital power monitor with 800- $\mu\Omega$  EZShunt™ Technology [INA741](#) — 85-V, 20-bit ultra-precise I<sup>2</sup>C-output digital power monitor with 800- $\mu\Omega$  EZShunt™ Technology [INA745A](#) — 40-V, 16-bit high-precision I<sup>2</sup>C-output digital power monitor with 800- $\mu\Omega$  EZShunt™ Technology [INA745B](#) — 40-V 16-bit I<sup>2</sup>C-output digital power monitor with 800- $\mu\Omega$  EZShunt™ Technology [INA746](#) — 40-V, 20-bit ultra-precise I<sup>2</sup>C-output digital power monitor with 800- $\mu\Omega$  EZShunt™ Technology [INA780A](#) — 85-V, 16-bit high-precision I<sup>2</sup>C-output digital power monitor with 400- $\mu\Omega$  EZShunt™ Technology [INA780B](#) — 85-V 16-bit I<sup>2</sup>C-output digital power monitor with 400- $\mu\Omega$  EZShunt™ Technology [INA781](#) — 85-V, 20-bit ultra-precise I<sup>2</sup>C-output digital power monitor with 400- $\mu\Omega$  EZShunt™ Technology

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Simulation tool

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TINA-TI provides all the conventional DC, transient and frequency domain analysis of SPICE and much more. TINA has extensive post-processing capability that allows you to format results the way you want them. Virtual instruments allow you to select input waveforms and probe circuit nodes voltages (...)

User guide: [PDF](#)

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Latest version

Version: 1.71

Release date: 19 Jan 2024

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Analog Engineer's Calc Installer

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[OPA2365-Q1](#)  
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[OPA2836](#)  
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[OPA300](#)  
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[OPA3355](#)  
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[OPA891](#)  
[OPA892](#)

#### **Power op amps**

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[OPA564](#)  
[OPA564-Q1](#)  
[OPA567](#)  
[OPA569](#)

#### **Video amplifiers**

[OPA360](#)  
[OPA361](#)  
[OPA361-Q1](#)  
[OPA362](#)  
[OPA3692](#)  
[OPA3693](#)  
[OPA3875](#)  
[OPA4872](#)  
[OPA693](#)  
[OPA875](#)

## Line drivers

[OPA2670](#)

## Transconductance amplifiers & laser drivers

[OPA615](#)

[OPA860](#)

[OPA861](#)

## Fully differential amplifiers

[OPA862](#)

## Precision ADCs

[ADS1000](#)

[ADS1000-Q1](#)

[ADS1013](#)

[ADS1013-Q1](#)

[ADS1014](#)

[ADS1014-Q1](#)

[ADS1015](#)

[ADS1015-Q1](#)

[ADS1018](#)

[ADS1018-Q1](#)

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#### **Biosensing AFEs**

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[ADS1299-6](#)

#### **High-speed ADCs ( $\geq 10$ MSPS)**

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#### **Receivers**

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[ADS54T04](#)  
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[ADS58C23](#)  
[ADS58H40](#)  
[ADS58H43](#)  
[ADS58J63](#)  
[ADS58J64](#)  
[ADS58J89](#)  
[ADS62PF49](#)

#### **Touchscreen controllers**

[ADS7843](#)  
[ADS7843-Q1](#)  
[ADS7845](#)  
[ADS7846](#)

## Difference amplifiers

[INA105](#)  
[INA106](#)  
[INA117](#)  
[INA132](#)  
[INA133](#)  
[INA143](#)  
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[INA146](#)  
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[INA157](#)  
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[INA159-EP](#)  
[INA2132](#)  
[INA2133](#)  
[INA2143](#)  
[INA500](#)  
[INA592](#)  
[INA597](#)

## Instrumentation amplifiers

[INA101](#)  
[INA103](#)  
[INA110](#)  
[INA111](#)  
[INA114](#)  
[INA115](#)  
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[INA851](#)

**Audio line receivers**

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[INA1651-Q1](#)  
[INA2134](#)  
[INA2134-EP](#)  
[INA2137](#)

**Analog current-sense amplifiers**

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[INA212](#)  
[INA212-Q1](#)  
[INA213](#)  
[INA213-Q1](#)  
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[INA215](#)  
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[INA216](#)  
[INA2180](#)  
[INA2180-Q1](#)  
[INA2181](#)  
[INA2181-Q1](#)  
[INA2191](#)  
[INA223](#)  
[INA225](#)  
[INA225-Q1](#)  
[INA2290](#)  
[INA240](#)  
[INA240-Q1](#)  
[INA240-SEP](#)  
[INA241A](#)  
[INA241A-Q1](#)  
[INA241B](#)  
[INA241B-Q1](#)  
[INA270](#)  
[INA270A-Q1](#)  
[INA271](#)  
[INA271-HT](#)  
[INA271A-Q1](#)  
[INA280](#)  
[INA280-Q1](#)  
[INA281](#)  
[INA281-Q1](#)  
[INA282](#)  
[INA282-Q1](#)  
[INA283](#)  
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[INA284](#)  
[INA284-Q1](#)

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[INA293](#)  
[INA293-Q1](#)  
[INA296A](#)  
[INA296A-Q1](#)  
[INA296B](#)  
[INA296B-Q1](#)  
[INA300](#)  
[INA300-Q1](#)  
[INA301](#)  
[INA301-Q1](#)  
[INA302](#)  
[INA302-Q1](#)  
[INA303](#)  
[INA303-Q1](#)  
[INA310A](#)  
[INA310A-Q1](#)  
[INA310B](#)  
[INA310B-Q1](#)  
[INA381](#)  
[INA381-Q1](#)  
[INA4180](#)  
[INA4180-Q1](#)  
[INA4181](#)  
[INA4181-Q1](#)  
[INA4290](#)  
[INA901-SP](#)

#### **Digital power monitors**

[INA209](#)  
[INA219](#)  
[INA220](#)  
[INA220-Q1](#)  
[INA226](#)  
[INA226-Q1](#)  
[INA228](#)  
[INA228-Q1](#)  
[INA229](#)  
[INA229-Q1](#)  
[INA230](#)  
[INA231](#)  
[INA232](#)  
[INA233](#)  
[INA234](#)  
[INA236](#)  
[INA237](#)  
[INA237-Q1](#)  
[INA238](#)  
[INA238-Q1](#)  
[INA239](#)  
[INA239-Q1](#)  
[INA3221](#)  
[INA3221-Q1](#)

#### **Analog current-sense amplifiers with integrated shunt resistor**

[INA250](#)  
[INA250-Q1](#)  
[INA253](#)

[INA253-Q1](#)  
[INA254](#)

#### Digital power monitors with integrated shunt resistor

[INA260](#)  
[INA700](#)  
[INA740A](#)  
[INA740B](#)  
[INA741](#)  
[INA745A](#)  
[INA745B](#)  
[INA746](#)  
[INA780A](#)  
[INA780B](#)  
[INA781](#)

#### Die & wafer services

[ADS1282-HT](#)

#### Documentation

[open-in-new Analog\\_Engineers\\_Calculator\\_1.71\\_manifest.html](#)

Software Manifest

#### Release Information

General calculator tool for analog design support.

#### What's new

- Changed Amplifier and Comparators > INA Vcm vs Vout for INA321 and INA322. These are both 2 amp + gain topologies. The change corrected an issue with output swing to the positive rail when gain is greater than 5V/V.
- Changed start up version test to check for the new version after all the files are updated. Previously, this was checked on startup and for new installs the “a new version is available” message would pop up.
- Changed version and date to be a global. These globals are displayed in the “about” pop-up (accessible in the links tab).
- Added the “What Changed?” feature.

#### Download options

##### SBAC139 — ADS86xxEVM-PDK GUI

Latest version

Version: 01.00.00.00

Release date: 25 Jun 2015

[open-in-new](#)

[View all versions](#)

lock [ADS86xxEVM-PDK GUI \(zip\)](#) — 168685 K

#### Checksum

lock = Requires export approval (1 minute)

#### Precision ADCs

[ADS8664](#)  
[ADS8674](#)  
[ADS8684A](#)  
[ADS8694](#)

#### Release Information



The design resource accessed as [www.ti.com/lit/zip/sbac139](http://www.ti.com/lit/zip/sbac139) or [www.ti.com/lit/xx/sbac139/sbac139.zip](http://www.ti.com/lit/xx/sbac139/sbac139.zip) has been migrated to a new user experience at [www.ti.com/tool/download/SBAC139](http://www.ti.com/tool/download/SBAC139). Please update any bookmarks accordingly.