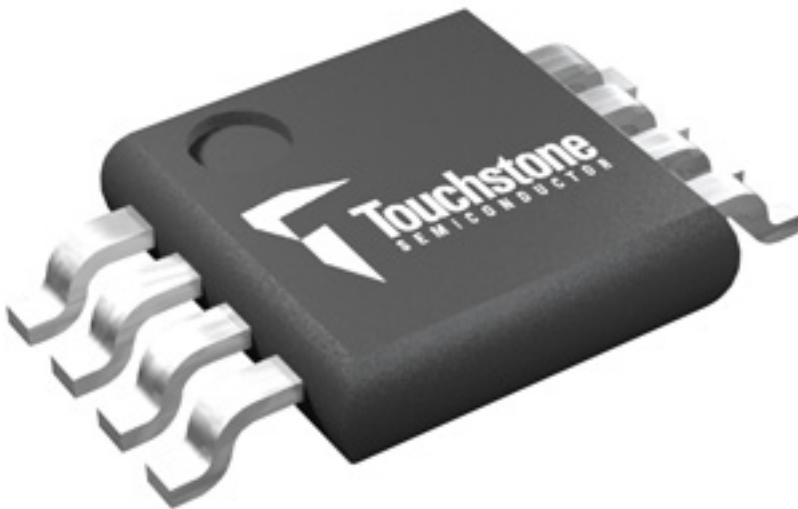


Analog-to-digital converter can be used as a drop-in replacement for the Analog Devices AD7887



[Touchstone Semiconductor](#)

[1] announced the immediate availability of the [TSA7887](#) [2], its first Analog Devices alternate source IC. The new TSA7887 is a two-channel, 12-bit, 125-kSPS analog-to-digital converter (ADC) that can be used as a drop-in replacement for the Analog Devices AD7887.

Priced at \$1.25 in 1,000-piece quantities, the new Touchstone TSA7887 is \$3 less expensive, pin-compatible, specification-identical, and functionally identical to the Analog Devices' AD7887. Touchstone now offers a total of 17 parts from Maxim and Analog Devices in its alternate-source analog IC family.

Touchstone's alternate-source parts are drop-in replacements that can be used in conjunction with the original manufacturer's ICs. Replacement parts ensure electronics companies have access to a constant supply of parts to build their products. All Touchstone alternate-source analog ICs are in stock and available to ship immediately.

The new TSA7887's features include:

- A \$1.25 price at 1k-piece quantities -- \$3 lower than the AD7887.
- 2.6-mW power consumption at 125kSPS while operating from a single +2.7V to +5.25V.

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- Four user-programmable, low-power operating modes including auto standby and auto power down.
- Two INL options: TSA7887B with ± 1 LSB INL and TSA7887A with ± 2 LSB INL.
- -40°C to +125°C operating temperature.
- One or two analog inputs each with an input range from 0V to VREF or 0V to VDD.
- An integrated 2.5V reference.

The TSA7887 is an ideal choice as an easy-to-use, stand-alone 12-bit ADC in low-power, industrial, process control and data-acquisition applications. Some portable and fixed-form-factor applications for the TSA7887 include: optical sensors, touch panels, personal digital assistants, programmable logic controllers, and medical instrumentation.

The TSA7887 is available in 8-pin SOIC and MSOP packages and is fully specified from -40°C to +125°C. It is in stock and ready to ship from Touchstone's distributors: [Digi-Key](#) [3] and [Future Electronics](#) [4]. Touchstone offers free samples/and completely assembled/tested demo boards upon request by visiting: <http://touchstonesemi.com/products/maxim-second-sources> [5].

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http://www.ecnmag.com/product-releases/2012/12/analog-digital-converter-can-be-used-drop-replacement-analog-devices-ad7887?qt-video_of_the_day=0

Links:

[1] <http://www.touchstonesemi.com/>

[2] <http://touchstonesemi.com/products/tsa7887-2>

[3] <http://www.digikey.com/product-search/en/integrated-circuits-ics/data-acquisition-analog-to-digital-converters-adc/2556291?k=TSA7887>

[4] http://www.futureelectronics.com/en/Search.aspx?dsNav=Ntk:ManufacturerPartNumberUpshiftedSearch%7c*tsa7887*%7c1%7c,Ny:True,Nea:True

[5] <http://touchstonesemi.com/products/maxim-second-sources>