

4-Channel, 24-GHz Receiver Downconverter Delivers Industry's Best Noise and Power Performance in Space-Saving Package

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) today introduced a highly integrated, 4-channel, 24-GHz receiver downconverter MMIC with the industry's best combination of low-noise performance, high linearity and low-power consumption. The ADF5904 integrated, multi-channel receiver downconverter achieves a 10-dB noise figure that is 3 dB better than competing devices, while using 50 percent less power, and is assembled in a small, cost-effective 5 x 5 mm LFCSP plastic package. Each of the device's four on-chip receive channels use a simple, single-ended connection to four individual antennas, which simplifies RF-transmission-line design and PCB layout, and reduces board size. The receiver downconverter then simultaneously handles four receive signals directly to produce a high-quality, high-amplitude baseband signal that easily connects to one of ADI's four-channel analog-to-digital converters. The ADF5904 also incorporates an integrated temperature sensor that eliminates the need for discrete sensing components that otherwise can require additional time and resources to calibrate during system assembly and test.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20150521005014/en/>

- View product page, download data sheet, order samples and evaluation boards: <http://www.analog.com/adf5904>
- Connect with engineers and ADI product experts on EngineerZone®, an online technical support community: <https://ez.analog.com/community/rf>

The ADF5904 is designed for multi-channel receiver, high-frequency applications that use digital beam forming, such as automotive ADAS, microwave radar sensors, and industrial radar systems - environments where energy efficiency is becoming a more important system-level design consideration. The ADF5904 24-GHz receiver enables these and other sensor applications by offering best-in-class receive sensitivity while using less overall power than competing RF technologies.

ADF5904 Receiver Downconverter Key Features

- 4 receive channels
- Rx channel gain: 22 dB
- Noise figure: 10 dB
- P1db: -10 dBm
- Power consumption: 0.5mW - all 4 channels powered on
- LO input range: -8 dBm to +5 dBm
- Rx to IF isolation: 30 dB
- RF signal bandwidth: 250 MHz
- On-chip temperature sensor with analog output: $\pm 5^\circ$

Pricing and Availability

Product Model	Sample Availability	Full Production	Price Each per 1,000	Packaging
ADF5904WCCPZ	Now	Now		5-mm x 5-mm
ADF5904WCCPZ-RL7			\$22.50	32- lead LFCSP
EV-ADF5904SD2Z	Now	Now	1 Unit @	
Evaluation Board			\$400.00	

About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to

interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect. Visit <http://www.analog.com>.

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Source: Analog Devices, Inc.

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