

New Product Announcement

Mouser Electronics Now Stocking Analog Devices ADF5610 Wideband Synthesizer with Ultra-Low Phase Noise

October 21, 2019 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [ADF5610](#) wideband synthesizer with an integrated voltage-controlled oscillator (VCO) from [Analog Devices, Inc.](http://www.analog.com) The ADF5610 delivers exceptional performance and flexibility and is ideal for diverse market applications such as aerospace and defense, [wireless](#) infrastructure, microwave point-to-point links, electronic [test and measurement](#), and satellite terminals.

The [Analog Devices ADF5610](#), available from Mouser Electronics, is a wideband fractional-N synthesizer that generates RF outputs from 57 MHz to 14.6 GHz and with very low phase noise performance. Compared to solutions that require multiple narrowband GaAs voltage controlled oscillators and phase-locked loops (PLLs), the ADF5610 offers 50 percent less power dissipation, smaller footprint, and simpler architecture, which translates into bill of materials cost savings and reduced time to market.

Developed on Analog Devices' proprietary advanced silicon-germanium (SiGe) BiCMOS process, the ADF5610 enables low bit error rates. The integrated phase-locked loop (PLL) function provides fast frequency hopping and lock times (less than 50 μ s when configured properly, including an appropriate loop filter).

The ADF5610 is fully supported by the ADIsimPLL™, Analog Devices' comprehensive and easy-to-use PLL synthesizer design and simulation tool for assessing phase noise, lock time, jitter and other design considerations. The device is also customer programmable through the use of integrated SPI interface and control software.

To learn more, visit www.mouser.com/adi-adf5610-synthesizers.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Analog Devices Inc.

Analog Devices is a leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>.

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