



AHEAD OF WHAT'S POSSIBLE™

THE INDUSTRY'S
BROADEST PORTFOLIO
FOR INSTRUMENTATION,
COMMUNICATIONS,
AEROSPACE AND DEFENSE,
AND INDUSTRIAL
APPLICATIONS.

RF AND MICROWAVE CAPABILITIES



DISCOVER ADI'S TOOLS AND RESOURCES, AND EXPLORE
THE INDUSTRY'S BROADEST RF IC PORTFOLIO

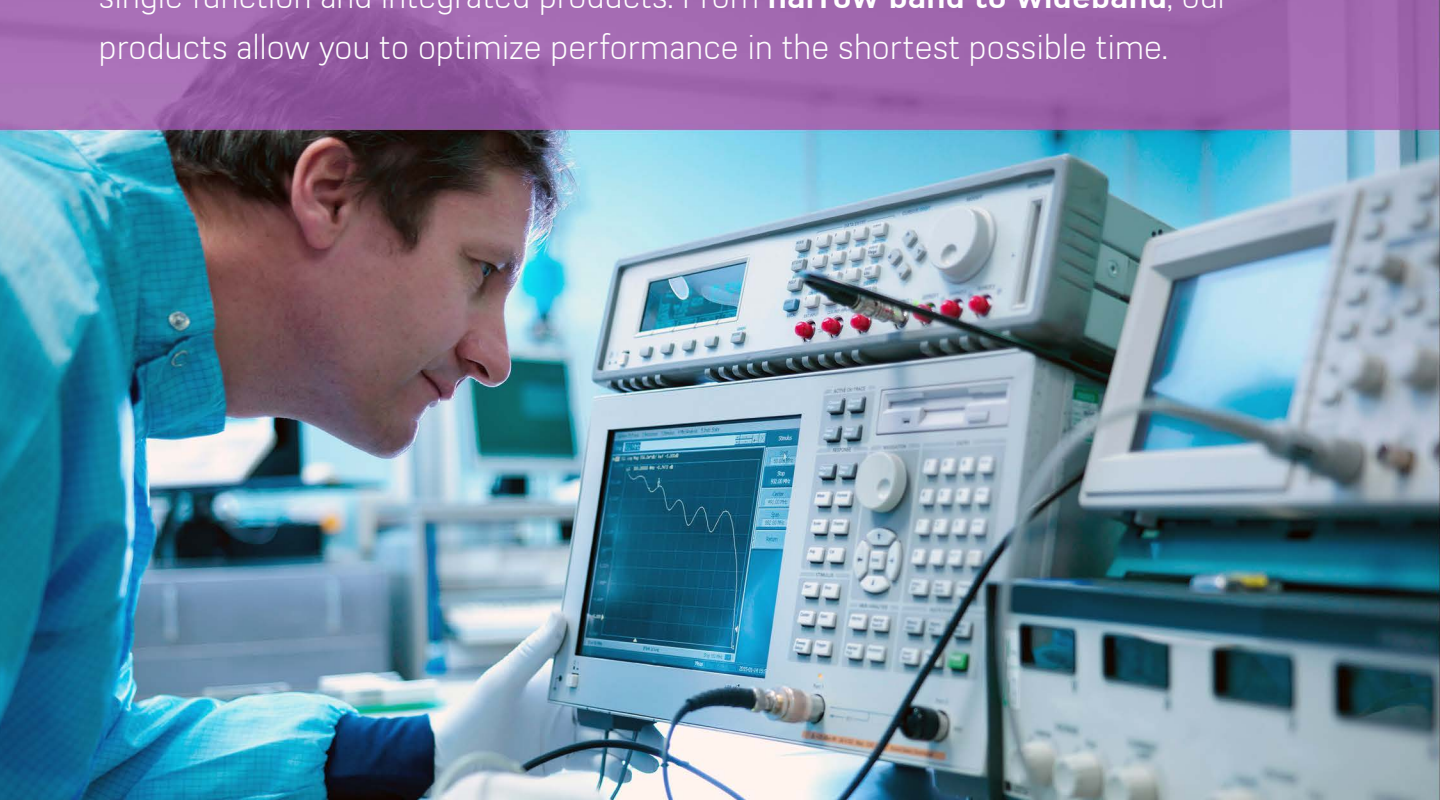


#ADlAhead

analog.com/RFMW

Full Range of Technology Processes, Including CMOS, SiGe, BiCMOS, SOI, GaAs, and GaN

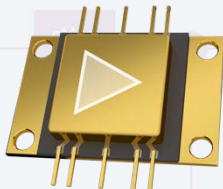
Analog Devices has the capabilities and expertise to deliver the performance you need. From dc to beyond 100 GHz, we have the **broadest portfolio** of over 1000 single function and integrated products. From **narrow band to wideband**, our products allow you to optimize performance in the shortest possible time.



Featured Product Releases:

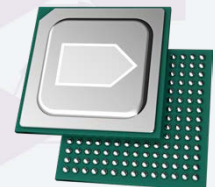
HMC8205B 0.3 GHz to 6 GHz Wideband GaN Power Amplifier

- ▶ High P_{SAT} : 45.5 dBm
- ▶ High power gain: 19 dB



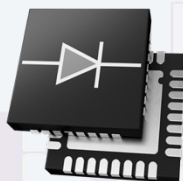
AD9689 14-Bit, 2.0 GSPS/ 2.6 GSPS ADC

- ▶ Low power, small size
- ▶ -3 dB bandwidth of the ADC input is 9 GHz



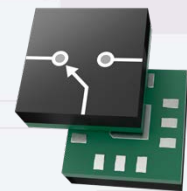
ADL5920 Directional Bridge with Dual RMS Detector

- ▶ Frequency range:
9 kHz to 7 GHz
- ▶ Directly measures in-line
power and return loss



ADRF5024 44 GHz Silicon Switch

- ▶ Ultrafast SPDT switch
with low insertion loss
- ▶ High isolation and input
linearity



Widest Range of Solutions—from Discrete to Highly Integrated



Single Function

- ▶ A complete selection of parts for each component in the RF signal chain
- ▶ DC to 100 GHz frequency bands, including narrow band and wideband ICs
- ▶ Industry-leading ICs including PLLs, power detectors, amplifiers, and more

Functional Integration

- ▶ Integration for improved performance
- ▶ Smaller form factor in a variety of technology and packaging options
- ▶ Examples include I/Q modulators with integrated PLLs, mixers with LO amplifiers and doublers, and PAs with bias sequencing and regulation

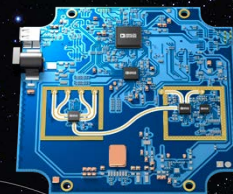


Complete Integration

- ▶ All bands, including E-band, V-band, L-band, and S-band with full integration
- ▶ Includes combined transmitter and receiver modules
- ▶ Narrow band and wideband up to 64 GHz

Subsystem and Modules

- ▶ Includes solutions for automotive, communications, industrial, and aerospace and defense applications
- ▶ Complete plug and play 24 GHz radar kits
- ▶ Military grade high power modules with SWaP benefits



The Resources You Need to Optimize Your Design

Maximizing your resources. Reducing your risk. Getting to market faster.

Analog Devices supports its broad portfolio with a comprehensive suite of design tools. They are engineered to make the RF-to-digital design process easier and help you optimize and prototype faster.



ADIsimRF

ADIsimRF™ provides calculations for the most important parameters within the RF signal chain, including cascaded gain, noise figure, IP3, P1dB, and total power consumption.

ADIsimPLL

ADIsimPLL™ enables the rapid and reliable evaluation of Analog Devices high performance PLL synthesizers.

ADIsimFrequencyPlanner

ADIsimFrequencyPlanner enables fast, accurate simulation and elimination of integer boundary spurs from Analog Devices PLL synthesizers.

ADIsimCLK

Developed specifically for Analog Devices' range of ultralow jitter clock distribution and clock generation products, ADIsimCLK™ allows users to rapidly develop, evaluate, and optimize designs.

Virtual Eval

Virtual Eval™ accurately models the typical performance characteristics of many Analog Devices high speed converters.

RF, Microwave, and Millimeter Wave IC Selection Guide

Our RF and microwave selection guide is a catalog of 1000+ parts, regularly updated with new components.

X-Microwave X-MWblocks™

Speed your time to market with drop-in modular design blocks to easily build and modify RF signal chains.

