Analog Devices Introduces Best-in-Class Radio Frequency ICs

Analog Devices, Inc. announces the introduction of several new RF ICs with best-in-class performance effective for demanding, high-performance communications infrastructure, industrial equipment and instrumentation, and defense applications. ADI is showcasing these products, which include a PLL (phase locked loop) synthesizer, two RF/IF gain blocks, a driver amplifier and a TruPwr&#153 rms power detector.

Phase-locked loops (PLLs) are widely used in satellite, telecommunications, industrial instrumentation and other electronic applications. Adding to its popular PLL synthesizer family, Analog Devices' new ADF4150 PLL synthesizer provides designers with a low phase-noise solution (figure of merit of -222 dBc/Hz), capable of either Fractional-N or Integer-N operation. Operating within a range up to 4.4 GHz, the ADF4150 is software-compatible with ADI's recently released ADF4350 PLL/VCO (voltage controlled oscillator), offering flexibility for lower phase noise applications within next generation wireless infrastructure and cable networking equipment.

The device is supported by the ADIsimPLL design tool that allows users to select VCO and loop filter and reference input to ease the design and selection of external components.

RF/IF gain blocks are used in a wide variety of cable TV, cellular, and instrumentation equipment applications. The ADL5601 and ADL5602 are broadband RF/IF gain blocks that operate from 50 MHz up to 4 GHz. The ADL5601 and ADL5602 offer one of the industry's highest dynamic ranges available from internally matched gain blocks, by achieving extremely low noise figures and very high OIP3 specifications simultaneously across the entire 4 GHz frequency range. Both devices also feature integrated internal bias circuitry minimizing the need for external components, which saves board area and cost. Both devices are fully ESD protected and are available in the industry standard SOT-89 package.

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