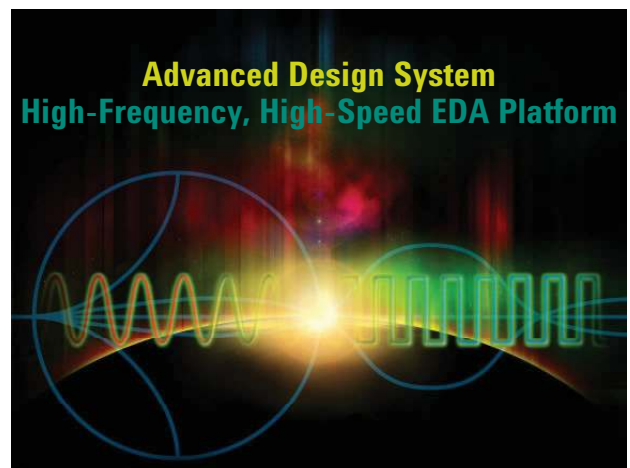# Keysight Technologies
EEsof EDA
W2200 ADS Core

Advanced Design System (ADS) is the flagship EDA platform from Keysight Technologies, Inc. EEsof EDA, the technology and innovation leader in high-frequency mixed-signal electronic design automation (EDA). It is the only design simulation software environment that enables the co-design of IC, package, and board in high-frequency and high-speed applications. ADS seamlessly integrates system, circuit, and full 3D electromagnetic simulation with Keysight's test instrumentation, resulting in repeatable, first-pass electronic design success.
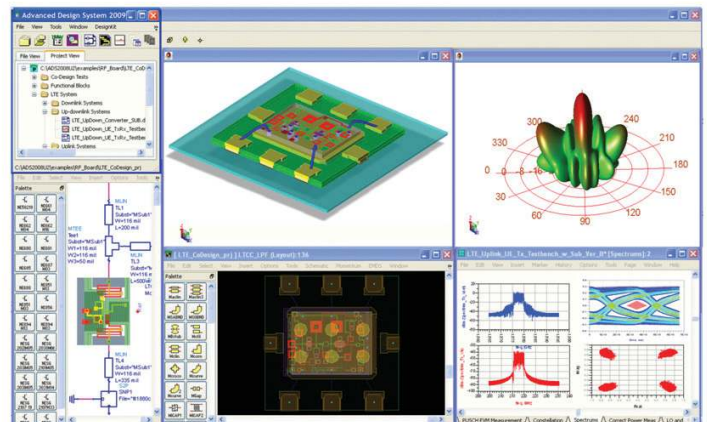
ADS Core is the starting element from which to build design and simulation capabilities. ADS Core contains powerful features to allow designers to begin using it immediately, however, including:

– A project design environment for inputting schematics, launching simulations and managing design projects.

– A data display to manipulate and plot data.

– A linear simulator for S-parameters, DC, and small-signal AC analysis.

– A non-linear RF system simulator.

– A statistical simulator including the powerful Design-of-Experiments (DOE) for ensuring robust designs.

– Thirteen powerful optimizers to optimize designs for performance and yield.

– A filter design guide to synthesize lumped and distributed filters.

– A passive circuit design guide to synthesize matching networks and passive functions.

– A design guide developer studio for creating customized design guides.

– Additional model libraries--RF system, RF passive, and multilayer interconnects.

– Dynamic link to Cadence for simulating Composer RFIC schematic in ADS.

– Mentor dynamic access for bidirectional RF board design transfer with Expedition.

– The connection manager for bidirectional data transfer with Keysight Technologies test instrumentation.

– The RF IP encoder for encrypting designs for Ip protection while sharing with others.

Previously sold separately, the combined capabilities in ADS Core assure you the best value in RF design capabilities available anywhere. For example, design guides automate the synthesis of filter and multi-stage matching networks to reduce hours of designs to minutes. The high quality of software engineering behind ADS provides a stable platform for the creation, sharing, and management of designers' valuable intellectual property.

Start with ADS Core in your design flow and join the growing installed base of over 12,000 successful designers worldwide. You can add other ADS circuit, system and electromagnetic simulation capabilities to ADS Core to complete even the most challenging designs with first-pass success.

ADS Core provides a High-Frequency/High-Speed EDA platform that tightly integrates system, circuit, and 3DEM simulators to streamline the design flow and reduce EDA costs.

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