

OVERVIEW

PCB designers face significant challenges in integrating RF circuits on a mixed-signal printed circuit board (PCB) design and incorporating all the design elements such as digital, RF/microwave, and analog circuits on the same board. To deal with this complexity, designers must be able to create a mixed-signal design within an integrated PCB design environment. They need a powerful yet easy-to-use software tool to handle all of these design needs.

AWR Connected for Cadence Allegro is an interface between Cadence's Allegro/MCM/SiP PCB and package layout tools and AWR's Microwave Office®. It works by extracting user-specified data from Allegro — conductors, nets, components, pins, substrate, material properties — and producing an intermediate file that can then be quickly and easily imported into Microwave Office for verification/simulation.

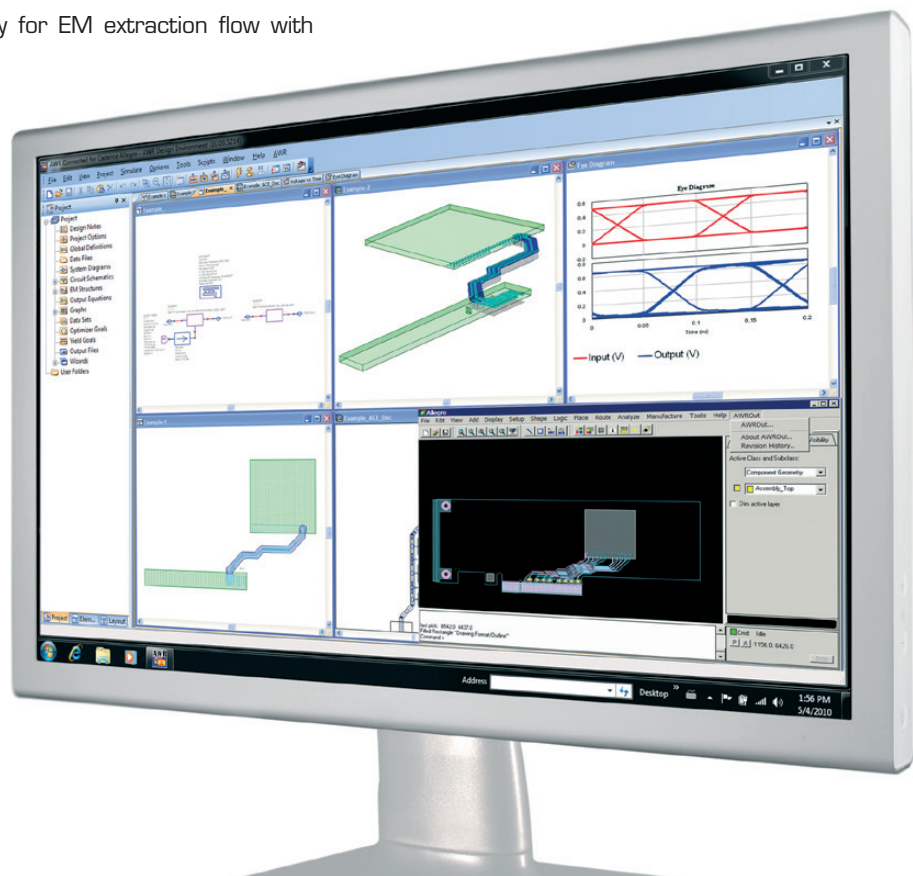
FEATURES AT A GLANCE

- < Export PCB layout directly from Allegro PCB and Allegro Package/SiP tools
 - Full PCB, arbitrary section (rubber banding), and/or select traces with proximity
 - Specify layers and shape types
- < Layout and schematic creation in AWR
 - Drawing layers and colors match Allegro database
 - Schematic place holders for components
 - Uses iNet™ technology for traces
- < Ready to simulate
 - Full dielectric and conductor material definition transfer
 - Ports automatically added
 - Imported design is ready for EM extraction flow with ACE™, AXIEM™, etc.

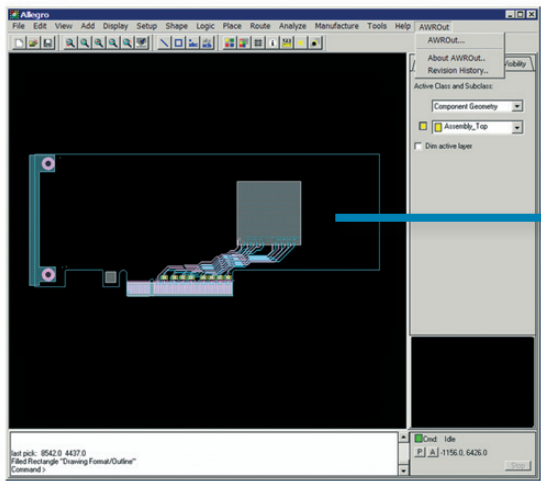


AWR & Cadence
Collaborative
RF PCB Design

AWR Connected for Cadence Allegro imports PCB layout directly into Microwave Office.

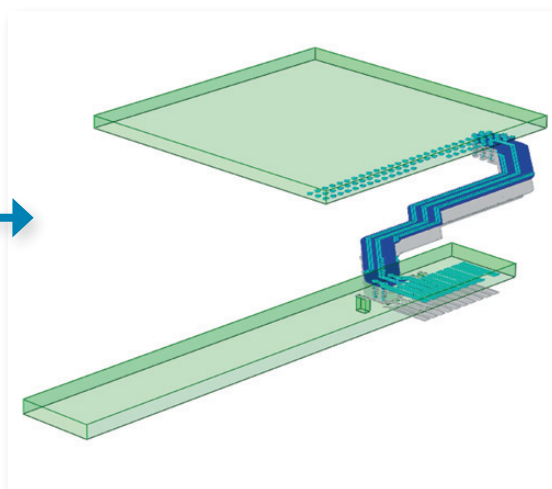


HOW IT WORKS?



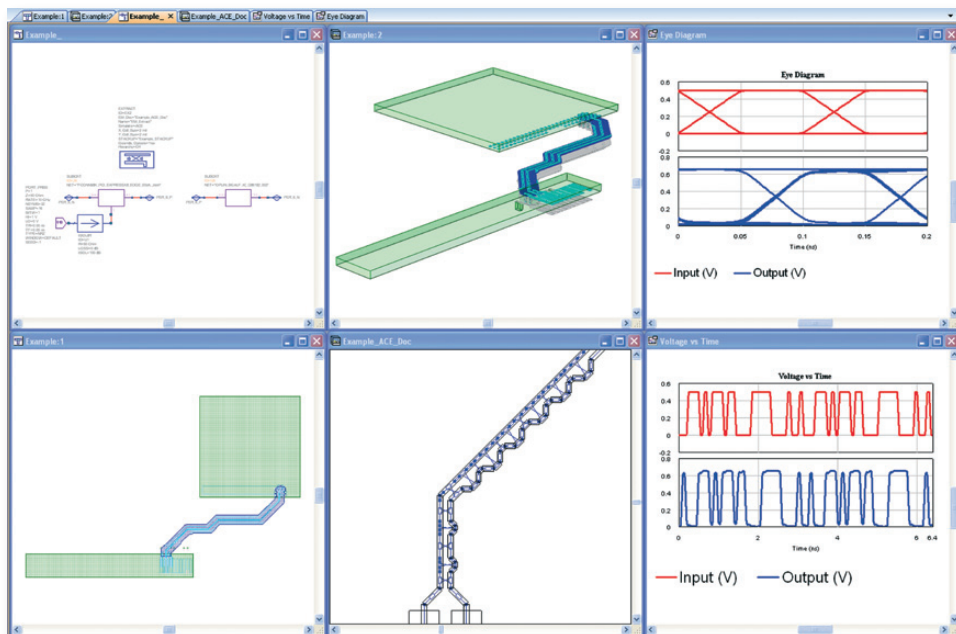
Step 1: Export data from Cadence

AWR Connected for Cadence Allegro enables the extraction of user-specified data from large designs to Microwave Office for simulation and EM analysis.



Step 2: Import data into AWR

3D layout view in Microwave Office of the extracted data from Cadence Allegro.



Step 3: Verify the behavior through simulation within AWR's Microwave Office design environment

Imported data is immediately available for post processing and analysis in Microwave Office. This example shows ACE extraction of the traces and corresponding simulation results.



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