Technical Specification

1 January 2011

General

- Native graphical user interface based on Windows XP and Vista
- Tight interface to CST DESIGN STUDIO™
- PEEC method specialized for the simulation of single-layer and two-layer boards
- Transmission line modeling method for SI analysis of high-speed multi-layer PCBs
- Specialized FEM method for PI analysis of high-speed multi-layer PCBs

PCB Structure Modeling

- EDA import from Altium P-CAD
- EDA import from Altium Protel 99SE
- EDA import from Cadence Allegro
- EDA import from Cadence OrCAD
- EDA import from Mentor Graphics BoardStation
- EDA import from Mentor Graphics Expedition
- EDA import from Mentor Graphics PADS
- EDA import from Mentor Graphics HyperLynx
- EDA import from Zuken Visula
- EDA import from Zuken CR-5000
- PCB layout checker with automatic geometry healing
- Interactive PCB editing tools
- Advanced navigation through the PCB
- Hiding/visibility selections

PCB Electric Modeling

- Automatic meshing and extraction of 3D PEEC models
- Automatic meshing and extraction of 2D transmission line models
- Automatic meshing and extraction 3D (FE FD) models
- Automatic calculation of PDN impedances

- Consideration of skin-effect and dielectric loss in time and frequency domain
- Export of SPICE equivalent circuits
- Export of current distribution and near fields for EMI analysis
- Advanced Export of PCB sub structures to of CST MICROWAVE STUDIO®

Circuit Simulator

- Schematic editor for passive and active device definition
- Fast circuit simulation in time and frequency domain
- Import of SPICE equivalent circuits (Berkley SPICE syntax)
- Support of IBIS models
- Import and export of S-Parameter data via TOUCHSTONE file format
- Parameterization of termination circuitry and parameter sweep

Minimum Hardware Requirements

- Intel® Xeon® based PC, 4GB RAM, DVD-Drive, at least 20 GB of free hard disc space.
- Fully OpenGL compliant graphic card
- Windows XP Professional, Windows Vista, Windows 7
- All solvers support RedHat Enterprise Linux (RHEL) 4.x und 5.x.
- Hardware recommendation depends on your application. If in doubt, please contact your local sales office for further information.