

# PADS® PE "D" Suite

## Getting Started in PCB Design and Layout

PADS PE "D" Suite is a powerful, yet affordable and easy to use PCB design system configured for a designer needing a basic front to back end solution.

### DxDesigner

- Robust design definition
- Intuitive project and design navigation
- Unlimited, hierarchical sheets
- Schematic design reuse
- Integrated physical decal viewer
- Design attributes and rules management
- Cross-probing with layout
- Full forward/back annotation with layout
- Symbol wizard

### PADS Layout / PADS AutoRouter

- PCB layout editor
- 2 Layer auto routing
- Online design rule checking
- 6250 database
- RF support connections
- Library Module
- Split-plane tool
- Mechanical tools DXF link
- Auto-dimensioning
- Design fabrication checks

### Highlights

**DxDesigner.** Enables sophisticated, complex design definition with unlimited hierarchical sheets, project and design navigation, symbol wizard and physical decal viewer. PADS Layout and LineSim integration.

**Design Reuse.** Provides intricate hierarchy management to reuse design blocks and specific data to save costs and time with new designs.

**Design navigator.** Displays all nets, net equivalences and connections.

**Constraint editor, layout integration.** Allows entry of physical and electrical constraint definitions during design creation. Cross probing and forward/backward annotation with layout.

**PCB Editor.** Includes the industry standard PADS layout editor, library module, radial array placement, 6250 database connections, and other high performance features. Design for fabrication lets you check for acid traps and starved thermals, checks, silkscreen over pads and other fabrication defects.

**RF Design.** RF design support of import of complex copper shapes, coplanar/channel wave guide shielding, square and chamfered corners and area shielding with vias.

**2 Layer autorouting.** Shape-based autorouter with true diagonal and any-angle routing. Includes component fan out, pattern routing, and via optimization. Enables simultaneous routing of two layers.

**Auto-dimensioning.** Provides robust dimensioning tools to automatically document the PCB form factor. Includes automatic leader break, radius/diameter dimensions, angle dimensions, and support for user defined tolerances.

**DXF Link.** Uses Autodesk DXF format files to link PADS layout to mechanical tools supporting DXF.

**On-line Design Rule Checking.** Automatically monitors rules passed from the schematic to layout to eliminate respins and manufacturing problems. Provides real time prevention of signal clearance and trace width violations. User can select rule adherence: prevent, warn, off, ignore for edit.

**Split Plane Tools.** Split /mixed plane operations support a rules-driven process that defines complex, mixed plane layers.

