PCB Design Level 1

Professional PCB Design Tools (Standard Features)

Summary

Proteus PCB Design Level 1 comes with a rich core feature set and a 1000 pin capacity making it well suited to the design of reasonably sized boards of modest complexity. Some more advanced layout features are excluded from this product.

The main software modules included with the product are:

- Professional Schematic Capture Module.
- ProSPICE Professional Simulation Engine.
- Professional PCB Layout Module (1000 Pins)
- Shape Based Autorouting Engine.

Included Features

The following features are all included with the PCB Design Level 1 Product.

- True Hierarchical Schematic Design.
- Fully Customisable Bill of Materials Reporting Module.
- Support for product Assembly Variants.
- Interactive Design Explorer with Cross Probing.
- Project Notes module (Documentation Centre).
- Formal Design Re-use with Project Clips/Design Snippets.
- BSDL and PADS ASCII Library Part Import Tools.

- Hardware Accelerated Display with Layer Transparency.
- Comprehensive Design Rule Configuration.
- Design Rule Aware Interactive Routing.
- Adaptive Shape Based Autorouter.
- Automatic Power Plane Generation (limited to one per layer).
- Gerber Export.

⚠ *You cannot make PCB boards with more than 1000 pins with the PCB Design Level 1.*

Excluded Features

The following features comprise the Advanced Feature Set and are not included with the PCB Level 1.

x Automatic Length Matching / Net tuning of routes.

x Multiple Power Planes per Layer (e.g. an Analog Ground and Digital Ground).

x User drawn Power Planes of specific dimensions. *

x Adaptive Shape Based Autorouter in scriptable or interactive mode. **

x Dynamic Teardrops.

x 3D Board Visualisation.

x ODB++, IDF, STEP and IGES Output Formats.

x Autoplacement of components.

Power planes must cover the entire layer (board edge to board edge) and cutouts or keepouts are not supported.

** The shape based autorouter can only be run in fully automated mode (i.e. it will attempt to route the whole board).

⚠ *The features listed above are only available in the PCB Design Level 2, Level 2+, Level 3 and Platinum Edition.*