Easy-PC Version 14.0 Update

Schematic Hierarchy

Easy-PCV14 introduces hierarchy into the Schematic editor. As part of a project you can add hierarchical blocks to a design to represent circuitry. This means the top level design is less cluttered but has a direct link to your lower level design. Blocks can be created for logical functionality and used in multiple designs; blocks for a PSU, memory or an amplifier for example. This helps you maintain working designs and blocks of simulated data, thus speeding up your overall design process.

NEW in VI4 - Trace-Router Autorouter

The Trace-Router autorouter is a modern gridless autorouter utilising numerically stable mathematical topology, this coupled with a highly efficient pushaside routing algorithm makes this router ideal for most types of designs.

The new Trace-Router option has been introduced to replace the Easy-Router. Users with an existing Easy-Router will be offered the Trace-Router freeof-charge when they upgrade to V14.

Feature summary:

- Gridless routing
- Intelligent push-aside and re-routing
- 90 or 45 degree routing modes
- Fanout routing pass for breakouts
- Efficient post-routing optimisation phase
- User defined costing choices
- Route all design or by net class

User Defined Named Grids

You can now add user named grids to Easy-PC designs. Normal grids as well as Polar (radial) grids can be created using a straight-forward dialog. Once grids have been defined, these can be displayed and used by all interactive options via the grid snap context menu. Mixed imperial/metric grids can be created, making swapping between them that much easier.





Trace-Router produces an aesthetically pleasing 'hand routed' looking result with less vias and lower track lengths





Pull-tight mode hugs itself around any obstacles it finds along its path

Pull-Tight Mode

To complement the new Trace-Router, the Pull-tight mode has been introduced to Easy-PC 14. This new manual routing mode routes connections between two points pulling them 'tight' against obstacles to form the shortest possible track length but still obeying the design rules.

OrCAD Netlist Import ECO Update of data

The existing OrCAD netlist import option has been enhanced with the addition of the ECO importer. An existing design can be updated automatically using an ECO file, this file is checked and if any differences are found, the differences are added to the design with a minimum impact.

Pull-Tight Smoother

Once a board has been manually routed using any of the routing options available, you can run it through the Pull-tight smoother to minimise the tracks lengths by pulling them as tight as possible between their start and finish points.



A hand-routed design is passed through the Pull-tight smoother option The Pull-tight smoother produces an error-free minimum track result in one single pass

Display of Item True Width

When designing, there are times when it would be highly desirable to switch off the true thickness of pads; for example, to declutter the design so that tracks and vias stand out more prominently. You can now do this using a simple switch in the Display dialog to switch off any design items' true width; an outline of that shape will be drawn instead.

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The rotation precision has been increased from I/10th (0.1) degree to I/100th (0.01) degree. This means when placing on a radial grid, the exact rotation step required can be achieved accurately.



Connector Library

Connector 2 Library Update

With it's second update, another 210 components have been added to the connector library giving you a total of over 22,710. These are ready to use and to simply drop into your design. New connectors are included for the Hirose library.

Pro Library

Pro-Library 3 Update

The Pro-Library has been significantly updated to include over 20,000 additional Parts and their associated Symbols and footprints. This takes the Pro-Library from 29,000 to just under 50,000 Parts! This is another increase of over 50% for you to use instantly. Components have been added for Altera, LT, Maxim, Microchip, National and Xilinx.

Micro Library

Micro-Controller 3 Library Update

As an extra bonus, we've added over 500 new Micro-controller library parts to the existing library from the Altera SX range. If you have purchased this library already, we will supply the update for it to you free-of-charge when you buy Easy-PC 14. If you decide you would like the update without buying V14, there is a small upgrade charge.

Additional Features

- Dimension Text detail improvements
- Replication of Values to all packages in Comp Editor
- Choice selection of drill types for drill drawings
- Change Component shows symbol previews
- Report output can now produce a lists of nets, component pads and vias
- Report output can report Pad Positions in CSV format
- Cancel Move during copy retains original position
- Add and control Value Names from Technology dialog
- Copper Shape verification in PCB DRC
- Design Revision Analyser now checks for changes in Testland state on pads and vias
- Fully Supported under Windows 7 [32 & 64 bit]
- Benefit from our FREE technical support service
- Plus many more features and enhancements...

For information on pricing contact: Number One Systems. Oak Lane, Bredon, Tewkesbury, Glos. GL20 7LR. UK Tel: +44 (0)1684 773662 Fax: +44 (0)1684 773664 e-mail: sales@numberone.com Further information on all products and prices available at: **www.numberone.com**