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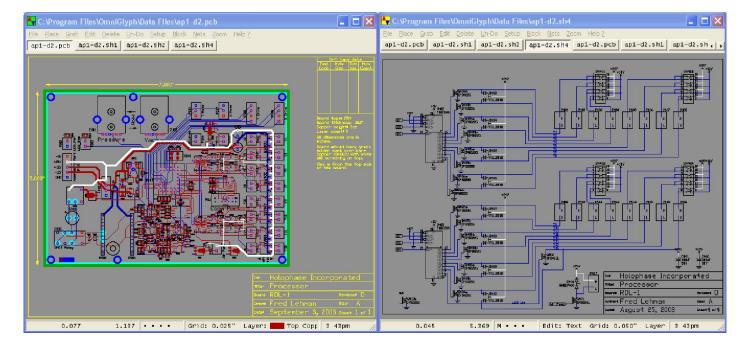
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CIRCAD Italy

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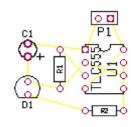


CIRCAD is a powerful and easy-to-use PCB Design package. Included within one clean and simple program are ample tools for all aspects of circuit design and manufacturing. It is a thoroughly modern 21st century program, yet it still carries its original 20th century price tag.



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Key Features of CIRCAD



Schematic Capture

To design a schematic, simply open a schematic drawing sheet and start placing components. Connect them together using wires, buses, and signal ports. More complex circuits may require a multi-sheet schematic -- also easily accomplished with one set of signal names common to all schematic sheets.

Netlist Generation

After a schematic is complete (or complete enough), all component and interconnection data is compiled and written to disk as a *netlist* file. Multi-sheet schematics will produce multiple netlists that will be merged by the PCB editor.

PCB Layout

While slurping in the netlist, CIRCAD will automatically select the components from the various library files and line them up along the bottom of the board file. If a component already exists from a previous design cycle, its parameters will be updated to reflect the new information. The components must be manually positioned into the desired locations for each individual part. A ratsnest of interconnections may be used to aid in component placement. Although routing of the necessary signal tracks is best done manually, an autorouter is available to assist with the simpler and more tedious operations such as SMT power/ground fanout.

Copper Pour

While multi-layer PCBs rely on unbroken power and ground planes on internal layers, simple two-sided boards must be painstakingly flooded with copper to fill all areas not

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occupied by pads and signal tracks. CIRCAD can flood into restricted areas and has individual clearance parameters for each of the different element types.

Design Rule Checking (DRC)

The DRC function will enable the designer to verify the correctness of a circuit's interconnections and ensure adequate clearances between the various elements.

Manufacturing Output Formats

CIRCAD provides support for a number of different manufacturing output formats. The industry standard RS-274D (sometimes mis-labeled RS-274X) Gerber files are used for sending data to the board manufacturers. Alternatively support is available for other CAD packages such as Tango, Protel, and AutoCad. PCB assembly data is available as Bill of Material (BOM) output and IPC-D lists.

Producing PCBs using the milling method

CIRCAD can automatically "outline" your design with lines, arcs and circles allowing you to mill a prototype PCB from a sheet of copper. Direct support for both the MicroKinetics and the T-Tech Rapid PCB prototyping machines is available.

Standard component libraries

CIRCAD schematic symbol and PCB component package libraries contain all of the standard devices that are needed. User defined components can easily be built and added to the library of available parts.

... and much much more!