



# CADSTAR

## Schematic Capture

### D A T A S H E E T

#### BENEFITS

- gives you control over parts, component and symbol versions
- lets you design all your constraints upfront, and automatically pass them to the PCB design
- allows you to run and view all schematics and PCB design simultaneously
- creates any format netlist

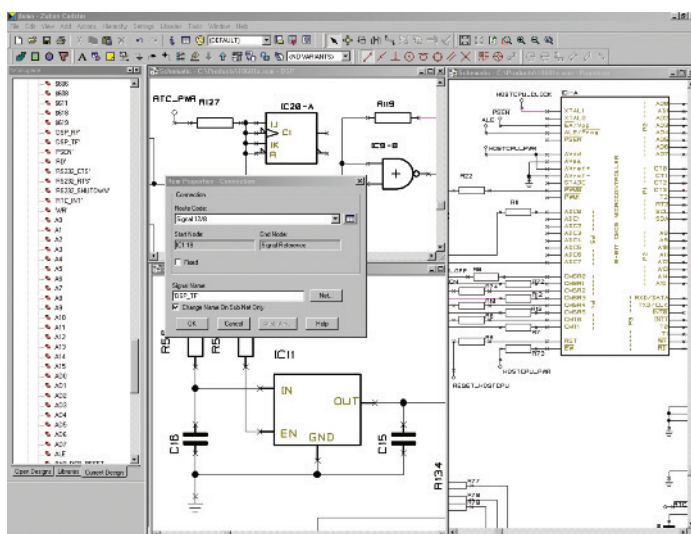
The CADSTAR design environment's schematic capture front-end, which complements the CADSTAR PCB Design Editor, is the natural system for a complete and totally integrated solution.

#### Error-free Transfer to PCB

CADSTAR provides a smooth and error-free transition between schematics and PCB supporting forward- and back annotation in both directions. When engineering change orders (ECOs) are required, these are transferred by a binary mechanism using the schematic or PCB design as the reference.

#### Cross-probing Between Applications

All schematics and PCB designs can be run and viewed simultaneously, while allowing cross-probing both ways and messaging to make selections with the design. With this feature comes the ability to drive the router directly from the schematic design. The router is set in the mode required, e.g. full automatic routing, and given the routing parameters required. When the net selections are made on the schematic, the router will start to route the design without you touching another icon button or menu option.



## Design Reuse

Schematic designs can be created flat or hierarchically at up to 70 levels. With the ability to open many different schematics simultaneously, sections of designs can be reused simply by 'copying' and 'pasting' from one sheet to another. All conductivity is retained as well as part names and net names. Multiple instances of reference designators can be checked and corrected to make them unique and ready for use on the PCB using an automatic process.

## 'Up-front' PCB Design Constraint Rules

Using CADSTAR Schematic Capture, design engineers can build in information required in the PCB design early in the design cycle. With the ability to quickly add or modify any of the constraints required to drive the CADSTAR EMC Adviser, P.R.Editor XR, the high-speed options (S & HS) and SI Verify through the Design Workspace, the user can design 'up-front' all the constraints and automatically pass them to the PCB design.

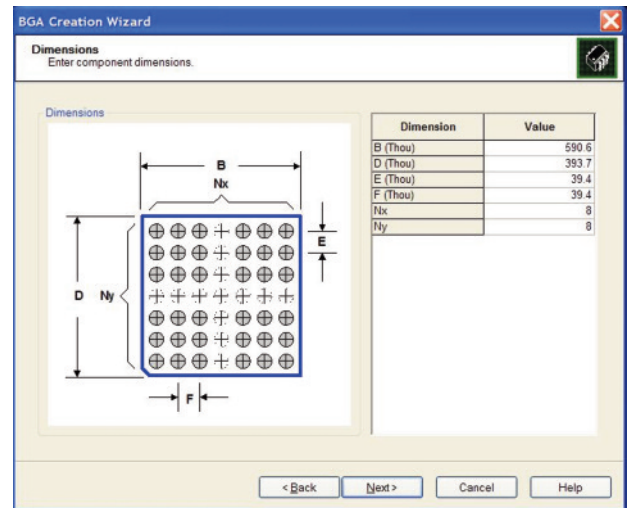
## Easy to Learn and Use

At all stages of CADSTAR Schematic Capture usage, the interface has been shared with the CADSTAR PCB Design Editor. This means the learning process and familiarization of the tools is undertaken only once, although CADSTAR has been designed to be easy to learn and use for both occasional and frequent users.

## Complete Libraries

With over 14,000 parts and 500 schematic symbols, CADSTAR Schematic Capture has an extensive library from which to choose ready-made parts. If the part required does not exist, it can be created using the Graphical Library Editor, in a tool specifically designed to meet the demands of today's engineers. Symbols libraries are available in both IEEE equivalents and with De-Morgan representations where applicable.

CADSTAR's extensive on-line library of parts created in native CADSTAR format is available through the CADSTAR Exchange. The ready to download and use parts contain all the information a designer requires including manufacturers' part numbers. The libraries currently contain over 230,000, and are updated and expanded constantly.



## Interfaces to the Outside World

With a standard PSpice netlist output and the powerful report generator, capable of generating almost any complex netlist, potentially any format netlist is possible. This combined with OLE capabilities, makes CADSTAR Schematic Capture a highly desirable schematic capture choice.

## More

CADSTAR is a fully featured PCB Design System renown for its excellent price-performance ratio. From simple single-sided through-hole designs to multi-layer, surface mount, high-speed digital and analogue designs, CADSTAR is capable of designing today's most demanding Printed Circuit Boards. From schematics, board- and FPGA level system design, PCB layout, high-speed and signal integrity, analysis, 3D, creation of manufacturing output, to complete data management capabilities and extensive internet-accessible libraries containing over 200,000 components, CADSTAR provides you with all technologies necessary for a complete electronic development process in one environment.

For more information on all the tools and solutions available with CADSTAR, please visit [www.zuken.com/CADSTAR](http://www.zuken.com/CADSTAR)