

Table	PART NUMBER	DESCRIPTION	Part	Footprint	Library
B_Parts	CDN-IC-0004	Video 8-BIT Digital to Analog Converters SO20.TLC5602DW	IC	TLC5602	SOP127P780 TLC5602_SO
B_Parts	CDN-RES-0313	Precision Thick Film Chip Resistor 10k 150V 0.125W 1%	Resistor	RES	RESC2012N RES_0805-C
B_Parts	CDN-RES-0269	Precision Thick Film Chip Resistor 1500ohm 150V 0.125W 1%	Resistor	RES	RESC2012N RES_0805-C
B_Parts	CDN-RES-0296	Precision Thick Film Chip Resistor 47k 150V 0.125W 1%	Resistor	RES	RESC2012N RES_0805-C
B_Parts	CDN-RES-0305	Precision Thick Film Chip Resistor 1000ohm 150V 0.125W 1%	Resistor	RES	RESC2012N RES_0805-C
B_Parts	CDN-CAP-0001	ES 506+1-ohm device, 5.0-V, SMDP	Capacitor	CAP	EPC1064 EPC1064_DP
B_Parts	CDN-CON-0001	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	CAPC3216N CAP_1206-C
B_Parts	CDN-CAP-0002	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	BNC_CONN
B_Parts	CDN-CAP-0003	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	CAPC1508N CAP_0603-C
B_Parts	CDN-CAP-0004	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	CAPC3216N CAP_1206-C
B_Parts	CDN-PCB-0001	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	PHOTO_DIO
B_Parts	CDN-PCB-0002	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	PHOTO_DIO
B_Parts	CDN-PCB-0003	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	PHOTO_DIO
B_Parts	CDN-PCB-0004	BNC Right Angle Connector 2% 1206	Connector	BNC_CONN	PHOTO_DIO

## OrCAD CIS

Powerful component data management

OrCAD® CIS (Component Information System) provides easy access to your company's component databases and part information. Seamlessly integrated within OrCAD Capture, OrCAD CIS greatly enhances the part selection and verification process and significantly boosts your productivity by reducing the amount of time spent researching for parts or reusing existing parts, eliminating manual entry of part information, and maintaining synchronization of component data.

### Overview

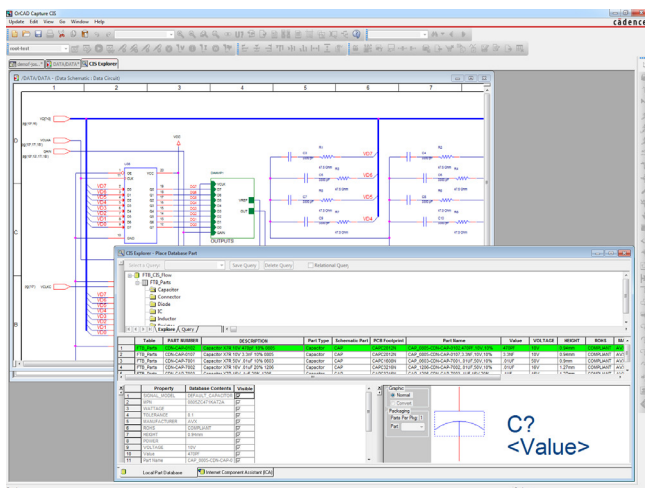
OrCAD CIS is a key part of the OrCAD schematic design entry solution. Integrated into corporate databases, you can automatically synchronize and validate externally sourced component data with the schematic design database, thereby eliminating manual data entry and guesswork. It solves a critical problem for your engineering teams by quickly and easily selecting the best component available, based on both the technical AND business parameters critical for success.

With easy access to corporate component databases and part information, OrCAD CIS streamlines the part research, selection, and verification process. The parts you need in the design can be queried based on their electrical, physical, or corporate characteristics, allowing you to identify, utilize, and design with preferred components, which can then be automatically retrieved for use in the schematic.

Adding components directly from company databases minimizes errors in bills of materials (BOMs) and parts lists, and allows you to control part usage for industry directives such as RoHS and WEEE.

### Highlights

- Ensure component data integrity by validating properties against a corporate database. For example, a simple schematic modification such as changing the value of a resistor without changing the corresponding footprint and/or part number can result in a mismatch between the schematic, PCB layout, and BOM. Such a mismatch design can easily result in an expensive, unnecessary board re-spin.
- Optimize part selection to help meet project milestones and goals. For example, inadvertently identifying and utilizing an obsolete component or one with a long lead-time or incorrect supplier can cause an unplanned, costly delay. All too often, these problems aren't discovered until the product is on the verge of being manufactured.
- Promote the use of company preferred components to help meet corporate initiatives and goals. For example, without access to cost or corporate initiative information during the design stage, it's easy to introduce higher-priced parts and miss the opportunity to use equivalent lower-cost substitutes from the same or alternate supplier.
- Reuse known good part data to help eliminate duplicate effort and improve efficiency. For example, redundant or duplicate parts are often introduced into engineering libraries and corporate inventory when functionally equivalent parts are already available and in stock.



*OrCAD CIS provides easy access to your company's component databases and part information*

## OrCAD CIS Features

### Database query and component placement

With OrCAD CIS, you can explore, query, and filter database components according to specific criteria that may be critical to your project goals (such as value, cost, availability, etc.) to identify the exact component needed. Search results can also be pre-approved, such as “qualified” parts based on company criteria to drive preferred part into product designs. Once you have identified the correct part, it can be placed directly into your schematic design from the database search results. OrCAD CIS will automatically transfer all of the associated component properties, eliminating hand-typing of part properties.

### Databases

OrCAD CIS works with any database that is compliant with Microsoft's ODBC standard to directly access your company component data in corporate MRP, ERP, or PLM systems, or in a local, intermediate database dedicated to engineering component data. OrCAD CIS also allows for the creation and use of relational tables in the component parts database. These relational tables have a one-to-many relationship with the part information (primary) tables. The relational database may contain a vendor table with multiple vendor/manufacture part numbers for a single company part number in the electrical (e.g., resistor) table. With this structure, search and query for data across the primary and relational tables provides more intelligent, refined results.

### New part introduction and tracking

As you create new parts during the design process, you can keep track of them through the OrCAD CIS part-approval system. New parts can easily be created by duplicating and editing an

existing record in the component database, and automatic alerts be issued when a temporary part is assigned a corporate part number and promoted to preferred or approved status.

### Verification

Ensuring component data integrity throughout the design process is critical to project success. It is a key capability of OrCAD CIS through the validation of component properties against a corporate database. A simple property change, such as the value of a resistor, can result in a mismatch between the schematic part and the part information in the database. The impact of this mismatch could be significant if the wrong part is ordered since the part number and corresponding value will not match. OrCAD CIS displays colored indicators to identify parts with unresolved problems as well as which properties are out of sync with the database. If the value of placed part's property is green, then it matches the value of the property for the database part. If the value of placed part's property is red, then the value does not match that of the database part.

## Component Management Solutions and Flows

### Variants

With the design variants capability, included as part of OrCAD CIS, you can manage unlimited board assembly variations without having to maintain duplicate schematics or manually edit individual BOMs. This capability reduces the number of files by maintaining all design-assembly variations within a single design and outputs. On the schematic canvas, substituted and/or unplaced components within each assembly are displayed through graphical indicators for easy reference.

### Advanced documentation

You can take BOM and report generation to the next level with Crystal Reports included in OrCAD CIS. Not limited to just those properties that reside in the schematic, OrCAD CIS and Crystal Reports draw from the extensive information that resides in your component part databases. This allows you to create customized report templates with more advanced features than a standard CIS BOM.

### Open Architecture Platform

Enabling an extensible and customizable design environment, the OrCAD open architecture platform incorporates a highly integrated Tcl/HTML5 programming infrastructure that allows the creation or enhancement of features, functionality, design capabilities, and flows. The Tcl programming interface provides programming access to the user interface, command structure, connectivity objects, and design database. Custom features that do not exist natively can be created, further enhancing and extending the OrCAD environment.

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