

# CADENCE ORCAD X

## PRODUCT MATRIX

### CAPABILITIES

### OrCAD X

#### STANDARD

#### PROFESSIONAL

#### PROFESSIONAL PLUS

#### PLATFORM

Backwards compatible with previous versions (17.2 & above)



Design importers (Altium, PADS, Eagle)



Allegro X AI enabled (generative PCB layout)



#### LICENSING

Perpetual license



Time based license (TBL)



Cloud License (SUL)



#### PART AUTHORING & LIBRARY MANAGEMENT

Unified manufacturer part search



Integrated access to Ultra Librarian, SnapMagic, Samacsys



Unified cloud library authoring



Component lifecycle management



Unified Component Information System



Part version control and history



IPC compliant footprint wizard (over 100 included footprint templates)



#### CLOUD DATA MANAGEMENT & COLLABORATION

User management - individual, role, and group



Design sharing



Data storage, version control, & history

Up to 10GB

Up to 50GB

Up to 50GB

Individual/private workspace



\* Available in Q2 2025

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#### CLOUD DATA MANAGEMENT & COLLABORATION (CONT.)

Shared workspace(s)

Can participate  
but not create

✓

✓

Schematic &amp; PCB web viewers\*

✓

✓

✓

Design review, commenting, and markup\*

✓

✓

✓

#### SCHEMATIC

Hierarchical &amp; flat design

✓

✓

✓

Constraint management

✓

✓

✓

Design variants

✓

✓

✓

Dynamic online design rule check

✓

✓

✓

Component information system (CIS)

✓

✓

✓

BOM optimization &amp; supply chain insight - Live BOM

✓

✓

✓

BOM/component supply forecasting

✓

✓

#### CIRCUIT SIMULATION

ISO 26262 compliant

✓

✓

✓

PSpice - Integrated mixed signal simulation

✓

✓

✓

Included 35K parameterized models

✓

✓

✓

Modeling Wizards

✓

✓

✓

Electrical stress analysis (EOS)

✓

✓

Sensitivity analysis

✓

Analog circuit optimization

✓

Integration with MATLAB Simulink

✓

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#### PCB LAYOUT

Interactive routing - including multinet & bus routing	✓	✓	✓
Constraint driven design - Constraint Management	✓	✓	✓
Constraint adherence feedback (green, red, yellow)	✓	✓	✓
Custom pad stacks	✓	✓	✓
Differential pair phase and uncoupling	✓	✓	✓
Extended XNET rules	✓	✓	✓
Package pin delay rules (for die to die delay)	✓	✓	✓
Z axis delay feedback & DRC	✓	✓	✓
Concurrent PCB Team Design	Can participate but not initiate	✓	✓
Trace timing & length tuning		✓	✓
Automated BGA fanout		✓	✓
Automated Circuit replication		✓	✓
Automated Teardrops and tapers		✓	✓
Automated Via arrays and Via shielding		✓	✓
Via structures		✓	✓
Automated constraint driven back drilling		✓	✓
Dynamic unused pad suppression		✓	✓
Split HDI Via stack		✓	✓
Slice through routed traces		✓	✓
PCB Footprint new pin/pad wizard		✓	✓

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#### PCB LAYOUT (CONT.)

IPC compliant footprint wizard (over 100 included footprint templates)



Electrical rules (reflection, timing, cross talk)



Route Vision



In design coupling and impedance analysis



Topology exploration & extraction



Specetra auto router



RF Coil Design



Rigid-Flex Design



#### MANUFACTURING

IPC-2581 & ODB++



In Design DfX core checks (100+ DFA, DFF, DFT checks)



In Design DfX flexible circuit checks



Automated fab & assembly drawing creation - Live DOC



Customizable Live DOC documentation templates



Single button manufacturing export - Parameterized artwork generator



#### MECHANICAL DESIGN INTEGRATION

Native real-time 3D design



MCAD/ECAD codesign - Dassault Systemes SOLIDWORKS & CATIA, Siemens NX, Autodesk Fusion, PTC Creo



Included internal & external copper



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#### MECHANICAL DESIGN INTEGRATION (CONT.)

MCAD driven component placement



Keep out &amp; Room Synchronization



3D clearance &amp; collision detection



Rigid-Flex synchronization (supported by Siemens NX &amp; Dassault Systemes SOLIDWORKS)



#### TRAINING & SUPPORT

Cadence community forums



Online training



Cadence online support documentation resources



Premium phone support

option

option

option

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