

Product Tier Details

The following lists the schematic capture functionality available in Multisim Base, Full, and Power Pro editions:

Functionality	Base	Full	Power Pro
Customizable GUI	X	X	X
Modeless part placement and wiring	X	X	X
Fast retrieval parts bins	X	X	X
User defined fields	X	X	X
Advanced symbol editor	X	X	X
Auto and manual wiring	X	X	X
Virtual wiring by node name	X	X	X
Fast auto-connect passives	X	X	X
Rubber banding on part move	X	X	X
Replace multiple components at once	X	X	X
Bus-Vector connect	X	X	X
Project manager	X	X	X
Hierarchical design	X	X	X
Multisheet design	X	X	X
Circuit annotations	X	X	X
Comments on schematic	X	X	X
Electrical rules check	X	X	X
Title block editor	X	X	X
Forward/Back annotation	X	X	X
Export to Mentor PADS layout	X	X	X
Advanced search	X	X	X
Variant support			X
Spreadsheet view			X
Design constraints			X
Zoom to selected part			X
Pin and gate swap			X
Customizable BOM			X
Advanced reports			X
Cross-probing with Ultiboard			X
ERC scope setting			X
Mark no-connect pins			X
Database import/export			X
Component database	Partial	Partial	Complete

Product Tier Details

The following lists the simulation functionality available in Multisim Base, Full, and Power Pro editions:

Functionality	Base	Full	Power Pro
Interactive simulator	X	X	X
Fully mixed-mode A/D simulation	X	X	X
Standard SPICE 3X5/XSPICE	X	X	X
Enhanced model support	X	X	X
Cadence® PSpice® model simulation*	X	X	X
Speed/Accuracy tradeoffs	X	X	X
Simulation Advisor	X	X	X
Convergence Assistant	X	X	X
Virtual, interactive, animated parts	X	X	X
Mouse click support for interactive parts	X	X	X
Measurement Probes	X	X	X
Component Wizard	X	X	X
NI measurement data file sources	X	X	X
NI measurement data file export	X	X	X
NI LabVIEW VIs as instruments and sources		X	X
Simulation Profiles		X	X
Postprocessor		X	X
Expressions in analyses		X	X
Add traces to Grapher post analyses		X	X
Rated components		X	X
Insert faults into components		X	X
Op-Amp Wizard			X
555 Timer Wizard			X
Filter Wizard			X
CE Amplifier Wizard			X
Model makers			X
Switch mode power supply generics			X

Functionality	Base	Full	Power Pro
RF Design Module			X
Nested sweeps			X
C-Code modeling			X
Virtual Instruments	4	15	22
Analyses	0	15	19
Simulated Agilent instruments	0	1	3
Simulated Tektronix instrument	0	0	1
Multisim MCU		X	X
Multisim Automation API			X
* Does not support all Cadence® PSpice® syntax			

Product Tier Details

The following lists the layout functionality available in Ultiboard Full and Power Pro editions:

Functionality	Full	Power Pro
Gridless Follow-me placement	X	X
Push and Shove part placement	X	X
Push and Shove trace placement	X	X
Real-time & from copper ratsnest	X	X
Auto-alignment	X	X
Real-time polygon update with voiding	X	X
Keep-in/Keep-out areas	X	X
Forward/Backward annotation	X	X
Real-time DRC	X	X
Jump to Error	X	X
64 layers and 1 nanometer resolution	X	X
Polar Grids	X	X
Customizable layer viewing	X	X
Split power-planes	X	X
Comprehensive Footprint Wizard	X	X
Enhanced 3D visualization with print	X	X
Full screen mode	X	X
Gerber, DXF, IPC-D-356A, SVG output	X	X
Dimensions on PCB and Landpatterns	X	X
Dimensions in Database Manager	X	X
User annotations	X	X
Net bridges	X	X
3D visualization inside circuit board		X
Turn off ratsnest for selected nets		X
Load and save technology files		X
Cross-probing with Multisim		X
Variant Support		X
Component Placement Sequencer		X
Place components in array		X
Unplace all components		X
Ruler bar alignments and measurements		X
Save PCB Design as a component		X
Permanent grouping		X
Pin & gate swapping		X

Functionality	Full	Power Pro
Gridless Connection Machine		X
High-speed constraint driven layout		X
Multiple clearances		X
Net topology choices		X
Equispace trace support		X
Differential Impedance Calculator		X
Transmission Line Calculator		X
Microvias		X
Test point insertion		X
Automatic tear-dropping		X
Pin necked trace support		X
Automatic jumper insertion		X
Copy Route & Replica Place functions		X
In-place footprint editor		X
Mechanical CAD		X
Export 3D info in 3D IGES, DXF formats		X
Copper amount report		X
Test point report		X
Number of pins supported	1,400	Unlimited
Spreadsheet view	Limited	Complete

Product Tier Details

The following lists the autorouting functionality available in Ultiboard Full and Power Pro editions:

Functionality	Full	Power Pro
Autoplacement	X	X
Pin & gate swapping	X	X
Fully customizable cost factors	X	X
Progressive Routing	X	X
Interactive autorouting	X	X
Constraint driven routing	X	X
Follows keep-in/keep-out criteria	X	X
Manual pre-placement: components, vias, traces	X	X
Auto Block Capacitor recognition	X	X
SMD mirroring	X	X
Net shielding	X	X
Automatic testpoint insertion	X	X
Trace rubberbanding	X	X
Topology: shortest, daisy chain, star		X
Prioritize routing order		X
Route an individual net		X
Automatic bus routing		X
Differential Pair routing		X
Group autoplace		X
Group autoroute		X
Optimization		X
Pin number limit	1,400	Unlimited
Maximum number of layers	4	64