

	Industrial	Educational	Classic	Basic Plus	Basic	Student
32-bit and 64-bit version	+	+	+	+	+	+
Circuit Entry	+	+	+	+	+	+
Schematic Editor	+	+	+	+	+	+
Open designs, models & libraries from Web	+	+	+	+	+	+
Undo	+	+	+	+	+	+
Redo	+	+	+	+	+	+
Automatic/manual wire routing and drag support	+	+	+	+	+	+
Instruments as standard schematic symbols	+	+	+	+	+	+
Subcircuits	+	+	+	+	+	+
BOM	+	+	+	+	+	+
Bus	+	+	+	+	+	+
Integrated Schematic Symbol Editor	+	+	+	+	+	+
Integrated Netlist Editor	+	+	+	+	+	+
Component Toolbar Editor	+	+	+	+	+	+
Excitation Editor for arbitrary waveforms	+	+	+	+	+	+
PCB export to major packages	+	+	+	+	+	+
Global Parameters	+	+	+	-	-	-
HDL extension (Verilog, Verilog A & AMS, SystemC)	+	+	+	-	-	-
Hierarchical and Team Design with Version Control	+	+	-	-	-	-
Parameter Extractor/Model Maker	+	+	-	-	-	-
Number of pads	unlimited	unlimited	unlimited	800	200	100
PCB Design	(in Design Suite only)					

Analyses						
	Industrial	Educational	Classic	Basic Plus	Basic	Student
Multi core support	+	+	+	+	+	+
Enhanced analysis speed & convergence	+	+	+	+	+	+
Max. number of external nodes and nodes in macros	unlimited	unlimited	unlimited	800	200	100
DC, AC, Transient, Digital, Mixed mode Simulation	+	+	+	+	+	+
Transient Noise Analysis	+	-	-	-	-	-
Power dissipation and efficiency calculation	+	-	-	-	-	-
IBIS model import and analysis	+	-	-	-	-	-
Auto converge Automatic solution of convergence problems	+	-	-	-	-	-
Steady State Solver (SMPS analysis)	+	-	-	-	-	-
RF Simulation	+	+	+	+	+	+

RF models given by S-parameters	+	+	-	-	-	-
S-parameter wizard	+	-	-	-	-	-
Network Analysis	+	+	-	-	-	-
Number of components and models	34,000	34,000	25,000	25,000	25,000	25,000
Digital Simulation	+	+	+	+	+	+
VHDL Simulation	unlimited	unlimited	unlimited	max 5000 lines	max 5000 lines	max 5000 lines
Verilog	unlimited	max. 1000 lines	max. 1000 lines	-	-	-
Verilog-A	unlimited	max. 1000 lines	max. 1000 lines	-	-	-
Verilog-AMS	unlimited	max. 1000 lines	max. 1000 lines	-	-	-
HDL debugger	+	+	+	+	+	+
MCU simulation and debugging	+	+	+	+	+	+
Interactive Mode	+	+	+	+	+	+
Circuit changes while a simulation is running	+	+	+	+	+	+
Symbolic Analysis (closed formulas)	+	+	+	+	+	+
Fourier Analysis (harmonics)	+	+	+	+	+	+
Fourier Analysis (spectrum)	+	+	+	+	+	+
Noise, Monte Carlo, Worst Case	+	+	+	+	+	+
Stress (Smoke) Analysis	+	-	-	-	-	-
Group Delay	+	+	+	+	+	+
Number of Optimization Targets & Parameters	any	1	1	1	1	1
Number of Parameters in Parameter Stepping	any	1	1	1	1	1
Parameter Sweeping	+	+	+	+	+	+
Analysis directly from Netlist	+	+	+	+	+	+

Output Capabilities						
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Scaled Diagrams	+	+	+	+	+	+
Multiple Axes	+	+	+	+	+	+
Full Scaled Smith Diagram	+	+	-	-	-	-
Nyquist Diagram	+	+	+	+	+	+
Pole-Zero Diagram	+	+	+	+	+	+
Drawing tools to enhance diagrams	+	+	+	+	+	+
Post Processing Tools	+	+	+	+	+	+
Built in DTP tools	+	+	+	+	+	+
MathCAD and Excel export	+	+	+	+	+	+

Virtual Instruments						
	Industrial	Educational	Classic	Basic Plus	Basic	Student
XY Recorder	+	+	+	+	+	+
Oscilloscope	+	+	+	+	+	+
Function Generator	+	+	+	+	+	+
Multimeter	+	+	+	+	+	+

Signal Analyzer/Bode Plotter	+	+	+	+	+	+
Network Analyzer	+	+	-	-	-	-
Spectrum Analyzer	+	+	+	+	+	+
Logic Analyzer	+	+	+	+	+	+
Digital Signal Generator	+	+	+	+	+	+
Spectrum Analyzer	+	+	+	+	+	+
Window functions for Spectrum Analyzer	+	+	+	+	+	+

Real-time Test and Measurement						
	Industrial	Educational	Classic	Basic Plus	Basic	Student
Analog and digital data acquisition	+	+	-	-	-	-
Analog and digital signal generator	+	+	-	-	-	-

Educational Features						
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Software fault simulation	+	+	+	+	+	+
Real-time (hardware) fault simulation	+	+	-	-	-	-
Experiment modules	+	+	-	-	-	-
Problem solver tool with simulation checking	+	+	+	+	+	+
Teacher utilities for problem construction	+	+	+	-	-	-
Class and student evaluation	+	+	+	-	-	-
Training and Examination Mode	+	+	+	-	-	+