

	eHSx16	eHSx32	eHSx64	eHSx128
Recommended simulator platforms	cRIO 7068 (Zynq 7020)	OP4200 (Zynq 7030)	OP4510 (Kintex7 325t)	OP5707 (Virtex 7 485t)
Number of inputs	16	32	32	128
Number of outputs	16	32	32	128
Number of switches	24	48	72	144
LCA* capability	Yes	Yes	Yes	Yes
Maximum number of states**	60	100	150	300
Number of resistors	Unlimited			
Switches type supported	IGBT/Diode, Diode, Breaker, Thyristor, Ideal Switch			
Non-switching devices supported	Resistor, Inductor, Capacitor, Ideal Transformer, Mutual inductance, PI Line			
Calculation power	6.4 GFLOPS	12.8 GFLOPS	25.6 GFLOPS	51.2 GFLOPS
Maximum number of test scenarios***	Up to 512 scenarios			
Circuit editors compatible	SimPowerSystems Simulink toolbox, PSIM, PLECS Simulink toolbox, Multisim			

* LCA stands for Loss Compensation Algorithm. This feature optimizes losses for standard topologies such as 2-level converter and NPC 3-level converter arms.

** Estimated values. The maximum number of states depends on the number of inputs and outputs that needs to be computed as well. There is no hard coded limit. If the time step required exceeds the solver's limit (2.56us), a compilation error will occur due to overpassing the circuit size limit.

*** The number of scenario available for a given circuit depends on the circuit complexity.

About OPAL-RT TECHNOLOGIES

OPAL-RT is the world leader in the development of PC/FPGA-based real-time simulator, Hardware-In-the-Loop (HIL) testing equipment and Rapid Control Prototyping (RCP) systems to design, test and optimize control and protection systems used in power grids, power electronics, motor drives, automotive industry, trains, aircraft and various industries, as well as R&D centers and universities.

