Simulator Platform
Comparison Chart

OPAL-RT TECHNOLOGIES




	OP4510	OP5650XG	OP5707XG	OP5033XG
Compatible Software Platforms	RT-LAB | Multi-Domain Simulink-Based HYPERSIM | Power Systems	RT-LAB | Multi-Domain Simulink-Based HYPERSIM | Power Systems	RT-LAB | Multi-Domain Simulink-Based HYPERSIM | Power Systems	RT-LAB | Multi-Domain Simulink-Based HYPERSIM | Power Systems
CPU Family	INTEL XEON E3	2nd Generation Intel® Xeon® Scalable Processors	2nd Generation Intel® Xeon® Scalable Processors	2nd Generation Intel® Xeon® Scalable Processors
Number of cores	4	4, 8, or 16 Available with the following configuration: 1x Xeon Silver 4112 (4 cores - 2.60GHz) 1x Xeon Gold 5222 (4 cores - 3.80 GHz) 2x Xeon Gold 5222 (4 cores - 3.80 GHz) 2x Xeon Gold 6234 (8 cores - 3.30 GHz)	4, 8, or 16 Available with the following configuration: 1x Xeon Gold 5222 (4 cores - 3.80 GHz) 2x Xeon Gold 5222 (4 cores - 3.80 GHz) 2x Xeon Gold 6234 (8 cores - 3.30 GHz)	4, 8, 16, or 44 Available with the following configuration: 1x Xeon Silver 4112 (4 cores - 2.60GHz) 1x Xeon Gold 5222 (4 cores - 3.80 GHz) 2x Xeon Gold 5222 (4 cores - 3.80 GHz) 2x Xeon Gold 6234 (8 cores - 3.30 GHz) 2x Xeon Gold 6238 (22 cores - 2.10 GHz)
XILINX FPGA	Kintex®-7 (325T or 410T)	Artix®-7	Virtex®-7 485T	Artix®-7 (optional)
SFP optical interface (GTX 5 Gbits/s)	4	4	16	4 (optional)
I/O modules with 16 analog or 32 digital signals	4	8	8	n/a
Maximum number of I/O channels	140	256	256	n/a

About OPAL-RT TECHNOLOGIES

OPAL-RT is the world leader in the development of PC/FPGA-based Real-Time Digital 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.

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