

# Simulator Platform

## Comparison Chart



Entry-Level Simulator

Mid-Range Simulators

High-End Simulators



	OP4512	OP4610XG	OP5705XG	OP5707XG	OP5033XG
Rack Unit	2U	3U	5U	5U	4U
Compatible Software Platforms	RT-LAB   HYPERSIM	RT-LAB   HYPERSIM	RT-LAB   HYPERSIM	RT-LAB   HYPERSIM	RT-LAB   HYPERSIM
Available Software Toolboxes & Add-ons	ARTEMiS eHSx64/32 ePHASORSIM Orchestra RT-XSG	ARTEMiS eHSx64/32 ePHASORSIM Orchestra RT-XSG	ARTEMiS ePHASORSIM EXata CPS Orchestra RT-XSG	ARTEMiS eHSx128/64 ePHASORSIM EXata CPS Orchestra RT-XSG	ARTEMiS ePHASORSIM EXata CPS Orchestra RT-XSG
CPU Family	Intel® Xeon® E3	AMD Ryzen™ 5	2nd Generation Intel® Xeon® Scalable Processors	2nd Generation Intel® Xeon® Scalable Processors	2nd Generation Intel® Xeon® Scalable Processors
CPU Specifications	Available with the following configuration:*  Xeon® 4 cores, 3.7 GHz	Available with the following configuration:*  Ryzen™ 6 cores, 3.8 GHz	Available with the following configurations:*  Xeon® 4 cores, 2.60 GHz Xeon® 4 cores, 3.80 GHz Xeon® 8 cores, 3.80 GHz Xeon® 16 cores, 3.30 GHz	Available with the following configurations:*  Xeon® 4 cores, 3.80 GHz Xeon® 8 cores, 3.80 GHz Xeon® 16 cores, 3.30 GHz	Available with the following configurations:*  Xeon® 4 cores, 2.60 GHz Xeon® 4 cores, 3.80 GHz Xeon® 8 cores, 3.80 GHz Xeon® 16 cores, 3.30 GHz Xeon® 44 cores, 2.10 GHz
XILINX® FPGA	Kintex®-7 410T	Kintex®-7 410T	Artix®-7	Virtex®-7 485T	Artix®-7 (optional)
SFP optical interface (GTX 5 Gbits/s)	4	4	4	16	4 (optional)
I/O modules with 16 analog or 32 digital signals	4	4	8	8	n/a
Available PCI Express Slots for communication cards	1	2	4 or 5**	4 or 5**	5 or 6**
Maximum number of I/O channels	140	140	256	256	n/a

\* or equivalent

\*\* depending on CPU configuration

### 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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