OPAL-RT Technologies
OP4500
RT-LAB-RCP/HIL SYSTEM

The OP4500 from OPAL-RT Technologies is a real-time simulation platform designed for rapid control prototyping (RCP) and hardware-in-the-loop (HIL) testing. It is equipped with a multi-core processor and FPGA technology, enabling fast and accurate simulations of complex power systems, power electronics, and control systems.

The RT-LAB software suite, paired with the OP4500, allows users to design, simulate, and test models in real-time by integrating with platforms like Simulink and MATLAB. The system is ideal for developing and validating controllers for power grids, renewable energy systems, electric drives, and automotive applications. The OP4500 is known for its high flexibility, scalability, and performance in real-time simulation environments