

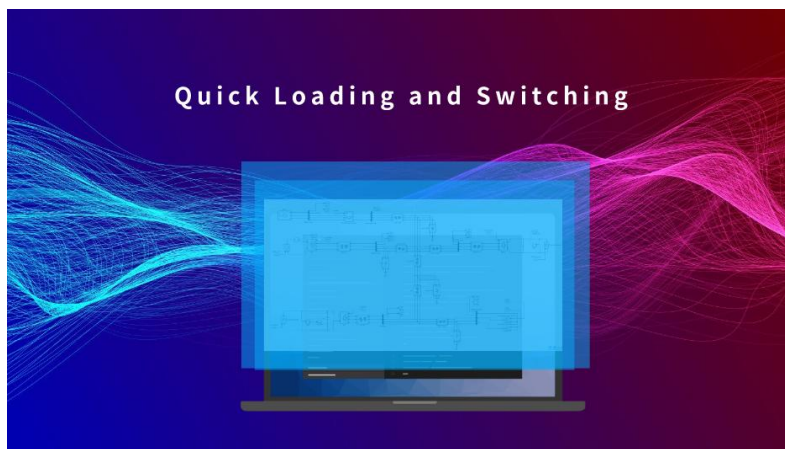
## StarSim HIL

PC-based software for real-time simulation systems

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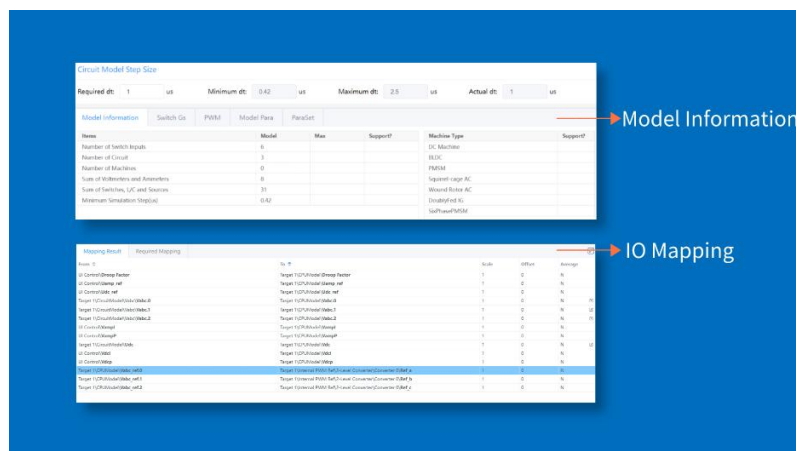
StarSim HIL is a real-time simulation software developed independently by ModelingTech, which can be used to build FPGA-based hardware-in-the-loop simulation system together with StarSim FPGA Circuit Solver. StarSim HIL is a configuration software, which is directly compatible with user's freely-built models, and helps users to realize simulation test conveniently and quickly.

### Detailed Highlights



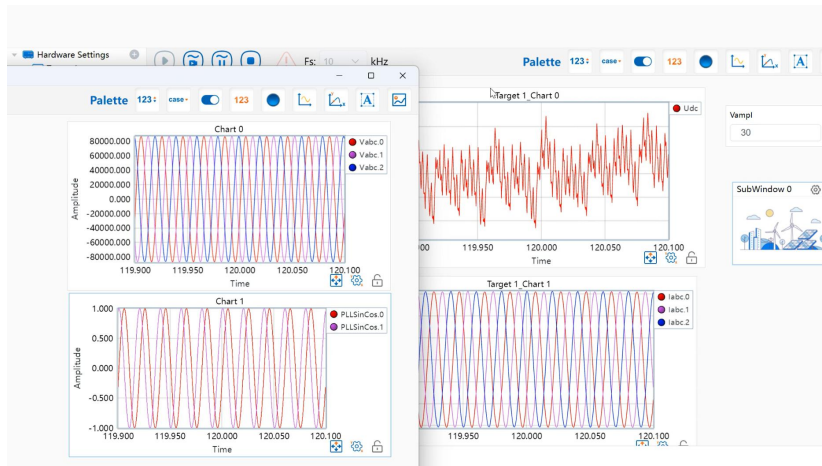
### Excellent compatibility

StarSim HIL has excellent compatibility, allowing users to load their own self-built power electronic circuit models to FPGA without compilation, and just to reload when switching topologies.



### Visualized one-click configuration for I/O

The mapping between the model IO and the HIL simulator IO can be done with a few mouse clicks, and the input/output relationship can be seen clearly., which saves users' time on interface configuration.



### Editable monitoring interface

Users can freely drag and drop common controls, indicators, charts and pictures to customize the run monitoring screen, and can adjust parameters online. Any interfaces set by the algorithmic model can be displayed on the oscilloscope control.

### Application Scenarios



#### Renewable Energy

- Wind Power Converter Testing
- PV Inverter Testing
- Multiple PCS Testing



#### Power System & Micro-grid

- Microgrid Research
- Green Hydrogen Microgrid Simulation
- Renewable Energy Farm Simulation
- Power Hardware in the Loop Testing



### **Multi-level System**

Modular Multi-level Converter Simulation

High Voltage Converter(HVC) Simulation

Static Var Generation(SVG) Simulation



### **Electrified Transportation**

Electric Motor Drive Controller Testing

Traction Motor Testing