eDesignSuite helps experienced and novice designers transform application requirements into complete solutions based on ST’s rich product portfolio. The suite includes three types of software tools:

Smart simulator and system design engine suggests products and a complete design for various application types.

Smart selectors display the types of products best suited to your application.

Configurators set the product parameters or configure a full application type.

**KEY FEATURES**
- Fully annotated and interactive schematics
- Set of analysis and simulation diagrams
- Transformer:
  - off-the-shelf Würth Elektronik transformer proposal tailored on design specification
  - fully customizable transformer design
- User-friendly graphic interface

**TARGETED APPLICATIONS**
- Power supplies (AC-DC and DC-DC)
- LED lighting (AC-DC and DC-DC)
- Battery chargers (AC-DC and DC-DC)
- Photovoltaics
- Motor control
- Signal conditioning
- RF antennas
SMART SIMULATOR AND SYSTEM DESIGN ENGINE

The smart simulator and system design engine provides an analysis workbench for the design generated from the high-level specifications. It offers for various application types (power supply, LED lighting, battery charger, photovoltaics, signal conditioning, RF design):

- A fully annotated and interactive schematic diagram of the circuit
- Off-the-shelf Würth Elektronik transformer selection option or fully customizable transformer design
- A set of analysis diagrams, such as main current and voltage simulations, efficiency curves, bode stability, and power loss data
- An actuals view to evaluate the main performance characteristics of the design
- A specification view showing the key configuration parameters of your design
- A complete and interactive bill of materials view
- A set of commands enabling the user to make design modifications