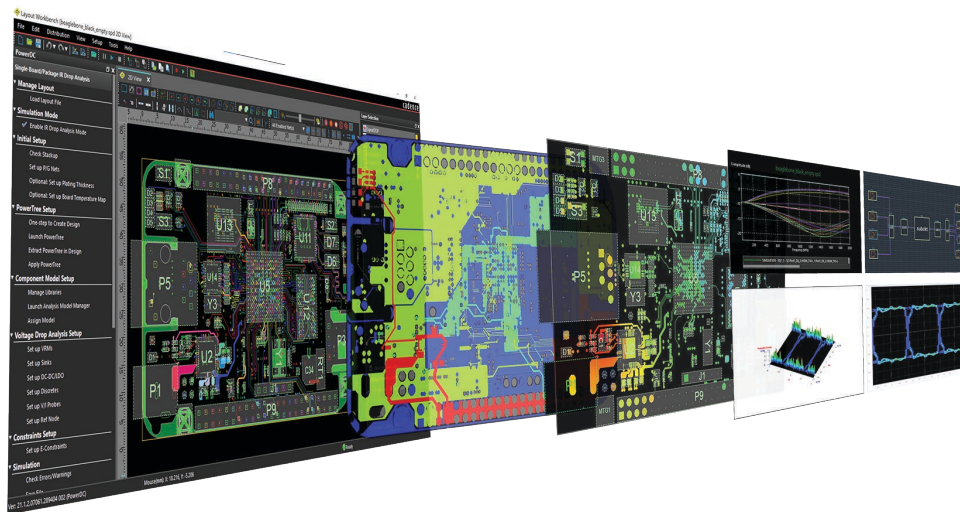# Sigrity X Multi-Physics Analysis Tokens

## Get Access to All the Analysis Tools & Technology You Need Today AND Tomorrow

Solve the next generation of design challenges with Sigrity X. With more complex designs and shorter delivery times, you must determine optimal design configurations, validate performance, and signoff on your critical interconnects well before you get to prototype. Sigrity X provides the only complete analysis solution designed to keep you ahead of the competition.



The Sigrity X unified workbench allows you access to a complete electrical analysis platform, built to help you solve all your SI, PI, and EMC design challenges across the board.

### Sigrity X Muti-Physics Analysis Portfolio:
### Meeting the Modern Design Analysis Challenge

Designs today often contain multiple critical interfaces and present several design challenges from Signal Integrity, Power, Thermal, EMI, EMC, ESD, and more. What's more— these challenges are not always present in each design and are often directly related to each other, making just performing one type of simulation ineffective for overall design closure.

However, the simulation tooling available is packaged and sold around specific tasks and disciplines leaving teams to adopt and learn multiple tools to fully verify and optimize their designs before production.

Sigrity X looks to solve this problem with a unified interface for analysis along with flexible token-based access to all the simulation engines needed throughout the entire design process providing a true simulation-driven design environment.

## Sigrity X Tokens Key Features

- Flexible purchase model to access multiple Sigrity X products based on need

- Leverage multiple tools and simulation engines without needing to pay for each individually

- Empower your team with a full range of simulation tools for in-design analysis, modeling, and verification all with a single, easy-to-use purchase model

- Future-proof your design flow with instant access to the latest Sigrity X technology

- Sigrity X Multi-Physics Analysis covers:

  - Signal Integrity
  - Power Integrity
  - Thermal
  - EMI/EMC
  - EM
  - ESD

**EMA Design Automation®**

# Sigrity X Multi-Physics Analysis Tokens
## Simulation-Driven Design

The unique workflow-driven environment and comprehensive simulation engines allow for quick access and custom analysis. As requirements increase, additional workflows can be easily added, all within the same common UI.

### Access to the Right Simulation Technology When You Need It

Sigrity X Tokens allow designers and design teams to access the right simulation engines at the right stage of their design. Traditionally, it has been hard for companies to justify the cost of inconsistently-used simulation tooling throughout the design process. As a result, companies focus spending on critical simulation needs first, leaving blind spots in additional simulation coverage until the end.

### Leverage Simulation At All Design Stages

Your team can leverage simulation throughout the design flow as needed, providing higher utilization, better coverage, and faster TaT and QoR. If Sigrity X tokens are available, they are accessible by any user to run simulations at any stage, giving your entire team access to simulation as they design.

### With Sigrity X Tokens You Can:

- Maximize and fully leverage simulation across your entire design at any stage

- Increase simulation usage without increasing costs

- Future-proof your design flow with multi-solver, multi-physics simulation available on demand

### Analysis Tools:

| Product | Design Task | Description | Token Count |
|---|---|---|---|
| Aurora PCB Analysis | In-Design SI/PI | Quickly run simulations as you design PCBs | 2 |
| Aurora ICP Analysis | In-Design SI/PI | Quickly run simulations as you design IC packages | 4 |
| Advanced SI | SI | Serial and parallel bus channel analysis | 6 |
| OptimizePI | PI | AC PI analysis and optimization | 4 |
| PowerDC | PI | DC PI analysis | 4 |
| SpeedEM | EM/ESD | ESD and EMC analysis | 2 |
| Starter Kit | EM/ESD | First order SI/PI analysis | 2 |
| Sigrity PowerSI | SI/PI | 2.5D SI/PI extraction and EMI analysis | 4 |
| Clarity | EM | Full wave 3D EM extraction | 5+1* |
| Celsius Thermal Solver | PI | Dynamic IR drop and thermal | 5+1* |

### Modeling Utilities:

| Product | Design Task | Description | Token Count |
|---|---|---|---|
| Broadband SPICE | Modeling | SPICE macro model extraction | 2 |
| T2B | Modeling | Transistor to power-aware behavioral model conversion | 2 |
| Advanced AMI Builder | Modeling | Fast & accurate CAD neutral AMI model creation | 8 |

*Requires 5 Sigrity X tokens plus one Clarity or Celsius enabler token*

### For More Information

EMA Design Automation provides exclusive distribution and support throughout North America for Sigrity X. For sales and pricing information, please contact us at EMA Design Automation, a Cadence Channel Partner:

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