CapExt

RA Ecosystem Partner Solution
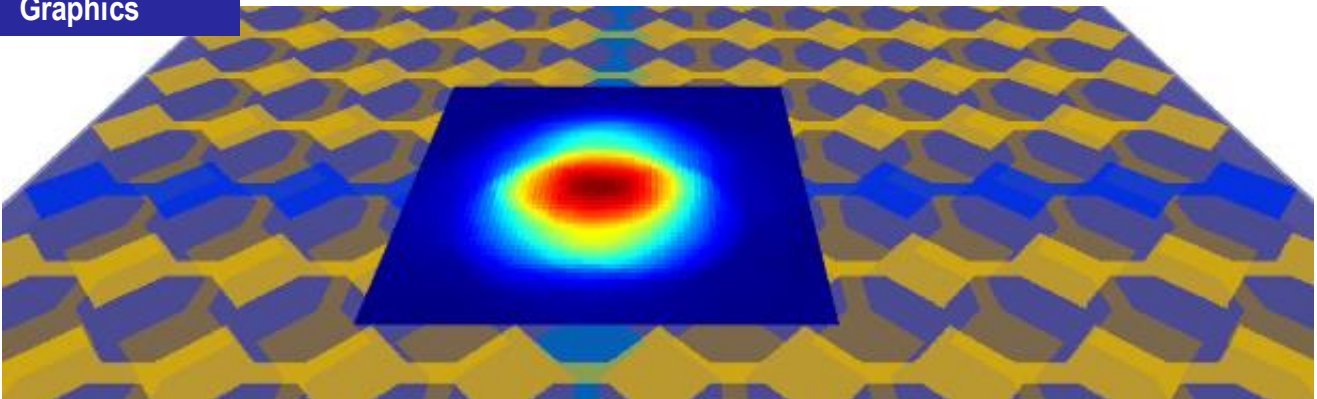# CapExt Simulation

Solution Summary

CapExt is a software package for simulating capacitive touch, designed from the ground up to be as easy to use as possible, while returning accurate results. With CapExt you can ensure optimal touch performance before the first prototype.

Features/Benefits

- **Easy to use**
  - **Runs on any Windows computer**
  - **Import standard design files such as Gerbers or DXF files**
  - **From Gerber to simulation results in under 5 minutes**
- **Find and fix noise/crosstalk issues**
- **Simulate the effect moisture/water on your touch design**

Shave weeks to months off your design cycle with CapExt

Graphics

Sensitivity of a mutual capacitance touch surface as simulated in CapExt

Target Markets and Applications

- **Companies and engineers implementing capacitive touch**
  - **Touch surfaces on PCBs**
  - **Touch surfaces on ITO for screens/mobile phones**
- **Companies that need capacitance simulations for sensitive analog designs**

https://capext.com

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CapExt

Make better PCBs

Get it right the first time. Reduce your prototyping and engineering costs with CapExt

Easy to use, *accurate* and *fast* capacitance extractor/simulator for PCBs and touch screens

Simulate capacitive touch

CapExt can simulate arbitrarily complex layouts for both touch buttons and complex touch screens

Only three steps required: import Gerbers or DXF files, add a touch probe and run the simulation

Use advanced features such as multiple pre configured touch controllers from multiple vendors, edit your sensors directly inside CapExt and simulate driven shields

Made for electrical engineers

Runs on all modern computers, easy to use, and you don't need a degree in physics to get the simulations you need, CapExt accepts all PCB and ITO layouts

Reduce crosstalk and noise, optimize parasitic capacitances

Edit your layouts directly within CapExt to achieve optimum performance

Robust waterproof designs

CapExt is the only capacitance simulator that can accurately simulate the effect of water on your designs

Test everything from a few small water droplets to heavy rain, with or without driven shield

Optimize your layout and algorithms for water robustness before you make the first prototype

Download a free trial from capext.com, or contact us at info@capext.com to learn more