

## Is QSPICE Resting on its Laurels? Hardly

The rapid evolution of technology demands tools that empower engineers to design faster, smarter and with greater precision.

**QSPICE**, Qorvo's next-generation circuit simulation tool, is meeting that demand while transforming how businesses engage with customers.

Just a year after its launch, QSPICE has proven to be more than a design tool.



It's a forward-looking innovation that bridges the gap between engineering excellence and business growth.

### Future-Proofing Circuit Design

In an industry where speed and accuracy are paramount, QSPICE redefines what circuit simulation tools can achieve. Its unique ability to combine massive digital logic with SPICE simulation marks a revolutionary leap for engineers.

QSPICE's power lies in its ability to handle complex designs with exceptional speed and

transparency. For engineers, this means no longer waiting for long simulations or relying on questionable third-party models.

"If you're an experienced modeler, QSPICE speeds things up by a factor of 10," Engelhardt adds. "And if you're inexperienced, it makes something that was impossible possible."

### Model Generator

With built-in tools like the Model Generator, QSPICE allows users to create robust and transparent semiconductor models directly from datasheets. "This solves a major problem," Engelhardt explains.

"If you're considering using a particular transistor, diode, or MOSFET, you can quickly make a model, run your simulations and decide if it's the right part. And you'll know exactly what was modeled and why."

*"For the first time, you are capable of combining massive amounts of digital logic with your SPICE simulation," explains Mike Engelhardt, QSPICE's developer. "This is a big deal—it's not just faster or free; it's fundamentally new technology."*

The simplicity and speed of QSPICE are reshaping industries that rely on cutting-edge designs, from automotive to telecommunications. Moreover, its

accessibility to students and educators ensures a pipeline of future engineers already fluent in QSPICE, cementing its role as a trusted industry standard.

### **Qorvo QSPICE® Simulator**

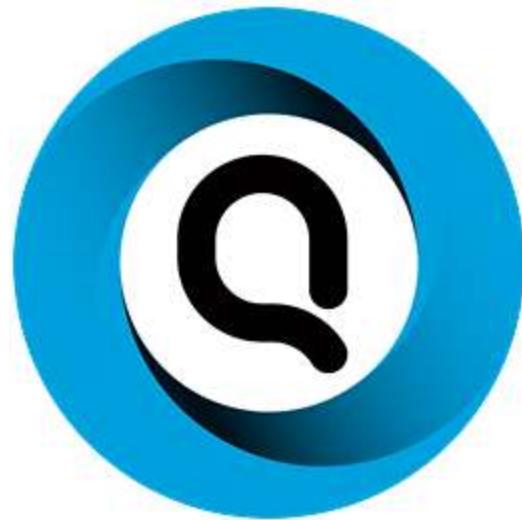
Qorvo's QSPICE® for analog and mixed signal simulation gives power designers the ability to evaluate their designs with complete confidence in the results.

[Learn More](#)

### **Empowering Business Growth**

QSPICE's transformative impact isn't limited to engineers; it's also a powerful tool for businesses, particularly in sales and marketing. Qorvo's senior leader, Tim McCune, sees QSPICE as a strategic asset that helps deepen customer relationships and expand brand recognition. "When selling semiconductors, you need a data sheet, application notes and a SPICE model," McCune explains.

"QSPICE brings all of this together, helping engineers evaluate our parts quickly and effectively."



Engelhardt emphasizes how QSPICE simplifies a traditionally cumbersome process. "The heartache factor is huge," he says. "QSPICE makes creating models less error-prone and incredibly efficient. It turns something frustrating into something seamless."

***"QSPICE makes creating models less error-prone and incredibly efficient.***

***It turns something frustrating into something seamless." -Mike Engelhardt***

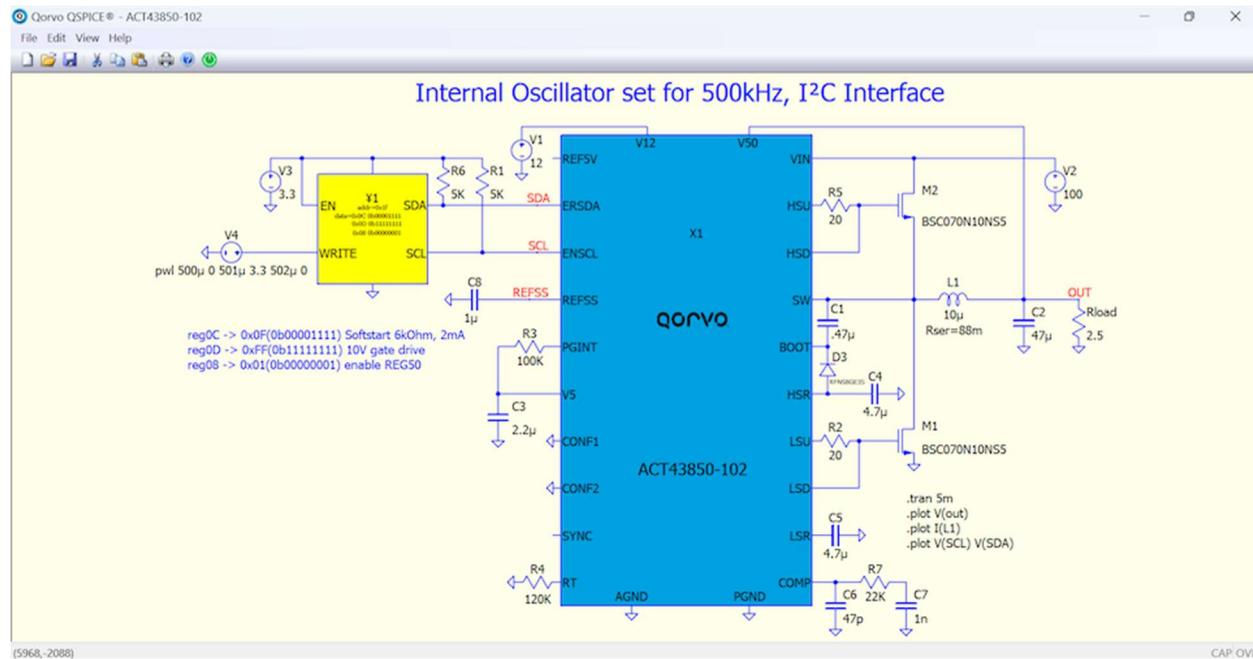
For sales teams, the benefits are clear. In meetings, QSPICE enables sales professionals to demonstrate Qorvo's parts in action through live simulations.

This hands-on approach resonates with customers, providing a tangible understanding of how Qorvo's components perform.

Tim McCune notes, "You don't have long to make an impression. With QSPICE, we can show—not just tell—what our solutions can do."

Additionally, QSPICE's transparency offers customers confidence in their design choices.

Engelhardt highlights this advantage: "Most people using third-party models don't know what the modeler thought was important or not. With QSPICE, it's completely transparent. You know exactly what you're working with, and it just works."



**QSPICE Forum schematic capture of an "Internal Oscillator" set for 500kHz, I<sup>2</sup>C Interface**

## Redefining Sales and Marketing in Technology

By offering a free, high-quality simulation tool, QSPICE positions Qorvo as a trusted partner for engineers and decision-makers.

This strategy mirrors the success of other industry-leading tools, like Linear Technology's LTspice, and reinforces Qorvo's reputation as a leader in innovation.

"We're not afraid to let people compare our parts with competitors," McCune says. "A substantial amount of the time, they'll pick Qorvo."

QSPICE's weekly updates, tutorials and shared schematics keep it relevant and widely used in the engineering community.

This consistent engagement builds brand loyalty while driving awareness of Qorvo's broader product portfolio.

For marketers, QSPICE's ability to connect directly with the design community creates opportunities to showcase Qorvo's

solutions in a way that resonates deeply with their target audience.

The combination of speed, accuracy and transparency ensures that QSPICE isn't just a tool for engineers—it's a platform for strategic growth.

### **Looking Ahead: Building Momentum and Innovation**

As QSPICE enters its second year, the focus is on building momentum. Awards like the Electra Design Tool of the Year and the Golden Electrons Award validate Qorvo's investment in QSPICE, but the tool's real value lies in its ability to drive tangible results.

From securing design wins to strengthening customer relationships, QSPICE is positioned to play a key role in Qorvo's growth strategy.

Engelhardt sums up its potential: "QSPICE is not just better—it's something new. It

makes the impossible possible, and it does it with the speed and accuracy that designers need."

By empowering engineers, streamlining business processes and redefining customer engagement, QSPICE is shaping the future of technology and setting the standard for what's possible in circuit design.

Whether you're a designer, marketer, or sales professional, [QSPICE](#) offers the tools to innovate, compete and win in an ever-evolving industry.