



## Skyworks Si829x Isolated Safety Gate Driver Qualified and Ready for Customer Evaluation

Oct 7, 2026

### Si829x platform with ProVCD™ technology moves from development to pre-production release for EV traction inverters

IRVINE, Calif., Oct. 07, 2026 (GLOBE NEWSWIRE) -- Skyworks Solutions, Inc. (Nasdaq: SWKS), an innovator of high-performance analog and mixed-signal semiconductors, today announced that its [Si829x isolated safety gate driver](#) with ProVCD™ technology has completed AEC-Q100 automotive qualification and is ready for advanced prototyping. Samples, tools, user guides, and application notes are available now. Designed for scalable, high-performance inverter architectures, the Si829x supports both SiC FETs and IGBTs while helping customers improve efficiency, simplify system design, and reduce system cost in applications ranging from automotive drivetrains to safety-critical electric vertical take-off and landing (eVTOL) systems.

### AEC-Q100 Qualified and Ready for Evaluation

With AEC-Q100 qualification completed, the Si829x is now positioned to support customers for initial product evaluation through pre-production prototypes. Samples are available today, giving customers a qualified, prototype-ready path to design-in.

The Si829x was designed to support customer functional safety system designs rated up to ASIL D, subject to system-level implementation and validation, to deliver the robustness required for EV traction inverters and other safety critical motor control applications. Its integrated protection features include:

- Extensive diagnostic fault coverage, notification and management
- Comprehensive safety mechanisms including power-up self-checks and safe state enforcement – a functional safety manual is available today
- Advanced isolation technology certified by multiple independent organizations for enhanced safety and reliability

With applications in battery electric vehicles, hybrid electric vehicles, eAgriculture, eTrucking, robotaxis, and exciting new segments like eVTOL aircraft, Si829x is a comprehensive choice among isolated gate drivers for safety-critical advanced propulsion systems.

### Full Documentation and Development Tools Now Available

Alongside qualification, Skyworks has prepared the complete technical resource set for the Si829x, including datasheet, technical reference manual, functional safety manual and application notes. This resource set, available under NDA, gives design teams comprehensive technical documentation to evaluate, integrate and validate the part.

Skyworks has also released customer-facing development tools, including two evaluation board kits, companion GUI software and complex device driver (CDD) software, designed to shorten development cycles and reduce time-to-market.

### A New Approach to Gate Drive Control

Unlike conventional voltage-mode gate drivers, the Si829x uses ProVCD™, which is Skyworks' second-generation variable current drive that delivers high resolution gate waveform shaping and cycle-by-cycle control through a digital interface. This approach enables:

- Precise 15 Amp 3-phase turn-on and turn-off current waveform control
- Switching-loss reductions of up to 44% in Skyworks testing, compared with voltage-mode gate drive
- Reduced electromagnetic interference (EMI) and filtering requirements
- Improved thermal efficiency through multiple packaging options
- Smaller PCB footprint and potential system-level cost savings

Together, these benefits allow manufacturers to increase inverter efficiency while simplifying system design and accelerating development cycles.

"Si829x gives customers a qualified path from evaluation to advanced prototypes," said Mario Battello, vice president of product line management at Skyworks. "The ProVCD™ platform combines software-configurable performance with the safety, isolation and design flexibility needed to standardize inverter designs for EVs, eVTOL, and eAgriculture, and accelerate development for high power motor applications like datacenter cooling and AI power supplies."

### Platform Scalability and Design Flexibility

The Si829x is designed as a configurable platform, allowing engineers to adjust gate drive parameters through software rather than fixed hardware components. This configurability supports:

- Design reuse across multiple vehicle platforms
- Faster development and validation cycles

- Greater flexibility to optimize performance, efficiency and cost
- Vendor-agnostic compatibility across power semiconductor technologies

By supporting both SiC FETs and IGBTs within a single gate driver platform that integrates a VPOS regulator, bipolar gate drive voltages are provided without the need for additional, external bias supplies.

#### **Si829x availability**

The Si829x platform is now available for sampling. To learn more, including product features, package options and design resources, visit [skyworks.com/go/si829x](https://skyworks.com/go/si829x).

#### **About Skyworks**

Skyworks® is a global leader in high-performance RF, precision timing, power management and mixed-signal solutions that power the intelligent, connected world. Through deep engineering expertise, Skyworks helps customers address rising complexity and deliver seamless connectivity across smartphones, vehicles, networks and critical infrastructure.

From defense and aerospace systems to the connected edge, AI infrastructure and next-generation automotive platforms, Skyworks provides the essential technologies that connect, synchronize and power physical AI, as intelligence moves out of the data center and into the real world. Harnessing decades of technical leadership and trusted partnerships across the technology ecosystem, Skyworks helps the world's leading innovators bring next-generation products and services to market.

Skyworks is a member of the S&P 500® market index (Nasdaq: SWKS). For more information, please visit [www.skyworks.com](https://www.skyworks.com).

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