



SKYWORKS®

Reliable EV Battery Management and Charging with Skyworks Automotive Isolation Solutions

Skyworks' isolated gate drivers offer ultra-fast propagation delays, reliable operation over temperature and time, and unmatched size and cost benefits. Equipped with a 6 kVrms isolation barrier, our CMOS digital isolators feature low-power and sleep modes, and specially designed options for SPI and QSPI bus isolation, along with inverting outputs for enhanced flexibility. In addition, our isolated sensors deliver precise isolated current and voltage measurement with minimal drift across temperature.

[skyworksinc.com](https://www.skyworksinc.com)

Featured Products

Si82Fx SelVCD™ Isolated Gate Drivers

- Excellent driver choice for SiC and GaN FETs
- Precise current mode control
- Selectable drive speeds: 8 for turn-on and 8 for turn-off
- 5th Generation 6 kV isolation technology

Si892x/3x/4x Isolated Current and Voltage Sensors

- Precision measurements with low drift
- Low gain error and high bandwidth
- 90 dB SNR and -97 dB THD
- Single-ended, differential analog, or Delta-Sigma modulation outputs

Si828x 5 kVRMS Isolated SiC/IGBT Gate Drivers

- Fast desaturation shutdown plus Miller clamp
- Fault and power status feedback to controller
- Noise immunity of 125 kV/μs
- Reference circuit for customization

Si86Sx Robust 150 Mbps Digital Isolators

- Low power, sleep mode
- I2C, SPI, custom QSPI compatible
- High CMTI, 100 kV/μs (min)
- 6.0 kV_{RMS} V_{ISO}, IEC 60747-17

