

## Semtech Targets New EcoSpeed DC-DC Converters for Automotive Applications

### Ultra-high efficiency makes EcoSpeed ideal for automotive DC power supplies

CAMARILLO, Calif., Sept. 14, 2017 (GLOBE NEWSWIRE) -- [Semtech Corporation](#) (Nasdaq:SMTC), a leading supplier of high performance analog and mixed-signal semiconductors and advanced algorithms, announced two new additions to its EcoSpeed DC-DC converter platform. Semtech's new Ecospeed devices are qualified for automotive DC power applications.

A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/0be5c780-07ee-4f82-af89-13786fc4f820>

The key capabilities of the new DC-DC converters include flexibility for a wide range of output voltages and optimized for high efficiency power conversion with low RDSON integrated synchronous switches. The EcoSpeed ICs operate at up to 90 percent high efficiency capability and a wide input voltage range of 4.5V to 40V. The DC-DC synchronous switching regulators are fully integrated power switches with internal compensation and full fault protection. The switching frequency of 2.2 MHz is compatible with automotive requirements enabling the use of smaller filter components resulting in reduced board space and reduced bill of materials (BOM) costs.



Semtech's EcoSpeed for Automotives

"Semtech's new EcoSpeed ICs provide optimized performance with heavy-duty, automotive qualification," said Francois Ricodeau, Product Line Manager for Semtech's Power and High-Reliability Products Group. "Our EcoSpeed DC-DC converter platform now provides a reduction in board real estate, lower overall system cost and ease of design that make the DC-DC synchronous switching regulators a robust solution for automotive applications."

### Key Features of the New EcoSpeeds

- | AEC-Q100 Grade-2 qualified
- | High efficiency up to 90 percent
- | Adjustable version output voltage range: 0.9V to (VCC - 1V) with  $\pm 1.5\%$  reference
- | Current mode PWM control with PFM mode for improved light load efficiency
- | Continuous output current up to: 1A for TS30041Q and 2A for TS30042Q
- | Voltage supervisor for VOUT reporting (Power Good)
- | Full protection for over-current, over-temperature, and VOUT over-voltage
- | Less than 10uA in standby mode with low external component count
- | Product is lead-free, Halogen Free, RoHS / WEEE
- | Available in Compact: 16-pin QFN (3 mm x 3 mm) for reduced footprint

### Application

- | **Automotive DC power applications**

### Pricing and Availability

The DC-DC converters (SKU: TS30041Q and TS30042Q) are available immediately in production quantities and are priced at \$0.63 each in 1,000-piece lots. Semtech offers comprehensive design assistance, including field- and factory-based support. Datasheets, volume pricing, and delivery quotes, as well as evaluation kits and samples, are available at [http://www.semtech.com/apps/form\\_request/](http://www.semtech.com/apps/form_request/).

### Resources

- | View all power management products: [www.semtech.com/power-management](http://www.semtech.com/power-management).
- | Contact [Semtech's customer service team](#) for technical support or general product inquiries.

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### **About EcoSpeed**

The EcoSpeed DC-DC converter platform incorporates Semtech's progressive, patented adaptive on-time (AOT) control architecture to deliver ultra-fast transient response and very high efficiency across light to full power loads. This unique architecture offers the benefits of conventional converter topologies with optimal tradeoffs for superior performance in next-generation low-power, dynamic point-of-load (POL) applications. EcoSpeed DC-DC converters emphasize pseudo-fixed switching frequency, programmable switching frequency, power save, SmartDrive™ technology, and no external compensation components are required. Our converters help designers meet today's insistent green power requirements.

### **About Semtech**

Semtech Corporation is a leading supplier of high performance analog and mixed-signal semiconductors and advanced algorithms for high-end consumer, enterprise computing, communications, and industrial equipment. Products are designed to benefit the engineering community as well as the global community. The Company is dedicated to reducing the impact it, and its products, have on the environment. Internal green programs seek to reduce waste through material and manufacturing control, use of green technology and designing for resource reduction. Publicly traded since 1967, Semtech is listed on the Nasdaq Global Select Market under the symbol SMTC. For more information, visit [www.semtech.com](http://www.semtech.com).

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