

## New Product Announcement

### Now at Mouser: Maxim's Space-Saving MAXM15642 and MAXM17532 $\mu$ SLIC Power Modules Shrink Solution Size by 2x

**June 18, 2018** – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [MAXM15462](#) and [MAXM17532](#) step-down DC-DC power modules from [Maxim Integrated](#). Offering an ultra-small [power source](#) to drive new developments in machine learning and artificial intelligence, the micro system-level ICs ( $\mu$ SLIC) deliver the benefits of industry-best switching regulators in a form factor that is over two times smaller than previous power modules.

The [Maxim MAXM15462](#) and [MAXM17532](#) and modules, available from Mouser Electronics, are part of Maxim's Himalaya series of voltage regulator ICs and power modules, which enable cooler, smaller, and simpler power supply solutions. The MAXM15642 module operates over a wide input-voltage range of 4.5 V to 42 V and delivers up to 300 mA output current over a programmable output voltage from 0.9 V to 5 V, while the MAXM17532 module has a slightly different input-voltage range of 4 V to 42 V, up to 100 mA output current, and an adjustable output voltage from 0.9 V to 5.5 V. Both modules integrate a controller, MOSFETs, inductor, and compensation components in a miniscule 2.6 mm  $\times$  3.0 mm  $\times$  1.5 mm package. Both also use peak-current-mode control architecture and offer a soft-start feature to reduce input inrush current.

Suitable for use in [harsh](#) electrical, mechanical, and thermal environments, the MAXM15642 and MAXM17532 power modules deliver increased energy efficiency, shock and vibration tolerance, high temperature operation, and electromagnetic interference (EMI) compliance. The devices boast an ambient operating temperature range of minus 40 to 125 degrees Celsius and are guarded by hiccup overcurrent protection and overtemperature protection. Ideal for space-constrained applications in small enclosures, the modules offer a power solution to support next-generation [industrial](#) Internet of Things ([IIoT](#)) sensors, motor encoders, network infrastructure equipment, 4mA to 20mA current-loop powered [sensors](#), and low dropout (LDO) regulator replacement.

For more information about the MAXM15642 module, go to [www.mouser.com/maxim-maxm15462-module](http://www.mouser.com/maxim-maxm15462-module). To learn more about the MAXM17532 module, visit [www.mouser.com/maxim-maxm17532-module](http://www.mouser.com/maxim-maxm17532-module).

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 700 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit [www.mouser.com](http://www.mouser.com).

### **About Maxim Integrated**

Maxim is the leader in analog integration. From mobile to industrial solutions, Maxim is making analog smaller, smarter and more energy efficient.

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