



New Product Announcement

Now at Mouser: Analog Devices and Laird Thermal Systems TEC Products Create Thermal Management Solutions for Laser Systems

August 13, 2020 – [Mouser Electronics](#), Inc., the New Product Introduction (NPI) leader empowering innovation, is now stocking [UltraTEC™ UTX](#) thermoelectric coolers (TECs) from [Laird Thermal Systems](#) and the [LTM4663](#) ultra-thin µModule TEC regulator from [Analog Devices](#), Inc. Together, the advanced TEC devices form the core of a temperature feedback control loop design, providing a reliable solution for use in [industrial](#) laser applications, optical modules, and optical networking systems, as well as [medical](#) diagnostics, laser projectors, and LiDAR systems.

The [ADI LTM4663](#) µModule TEC regulator, available from Mouser Electronics, integrates a TEC controller, switching regulator, inductor, linear power stage, and support components in a compact 3.5 mm × 4 mm × 1.3 mm LGA25 package. The device's ultra-thin package allows it to be placed on the back side of a PCB in optical modules, even in the most stringent form factors such as QSFP-DD where 1.4 mm is the maximum height available. The LTM4663 TEC regulator operates over an input voltage range of 2.7 V to 5.5 V, and features two self-correcting, auto-zeroing amplifiers to serve as a temperature feedback control loop and thermistor input amplifier. The regulator supports versatile use cases, allowing developers to independently program maximum cooling and heating currents, as well as the maximum TEC voltage.

The [Laird Thermal Systems UltraTEC](#) UTX TECs are assembled using next-generation thermoelectric material, delivering key improvements in efficiency and temperature differential, boosting cooling capacity by up to 10 percent. The TECs offer high cooling capacity, making them an ideal choice for both laser cooling and laser projection.

When employed together, the Analog Devices LTM4663 regulator and Laird Thermal Systems UltraTEC UTX TECs provide an efficient thermal management solution for laser and optical applications. The LTM4663 regulator allows designers to manage the temperature feedback control loop, while the UltraTEC UTX TECs deliver the cooling function and heat pump necessary for reliable temperature control.

To learn more about the UltraTEC UTX TECs, visit <https://www.mouser.com/new/laird-thermal-systems/laird-utx-thermoelectric-coolers/>.

To learn about the LTM4663 TEC regulator, visit <https://www.mouser.com/new/analog-devices/adi-ltm4663-umodule-tec-regulator/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

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 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 1 million sq. ft. state-of-the-art facilities south of Dallas, Texas. For more information, visit www.mouser.com.

About Analog Devices Inc.

Analog Devices is a leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>.

About Laird Thermal Systems

Laird Thermal Systems provides thermal management solutions for manufacturers of laser, analytical, instrumentation, medical imaging, clinical diagnostics, and telecom equipment. Laird Thermal Systems delivers optimized designs for highly reliable performance in smaller form factors that weigh less and require less power.

Trademarks

Mouser and Mouser Electronics are registered trademarks of Mouser Electronics, Inc. All other products, logos, and company names mentioned herein may be trademarks of their respective owners.

– 30 –

Further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Manager, Corporate Communications and Media Relations
(817) 804-7764
Kelly.DeGarmo@mouser.com