

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](http://www.mouser.com), 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 μ Module 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](#) μ Module 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 \times 4 mm \times 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/>.

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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.

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– 30 –

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