



Editorial Contact:  
Matt Judkins  
Marketing Director  
Tel: 636-898-6048  
matt.judkins@lairdtech.com

**FOR IMMEDIATE RELEASE**

## **Laird Technologies Launches Enhanced Version of AZTEC™ Thermoelectric Module Simulation Software**

***Program Specifies Optimal Thermoelectric Module(s) based on End User's  
Specified Operating Conditions***

**St. Louis, Missouri, USA – March 18, 2010** – Laird Technologies, Inc., a global leader in the design and manufacture of customized, performance-critical components for wireless systems and other advanced electronics applications, today announced the launch of its enhanced online thermoelectric module (TEM) simulation software tool: AZTEC™.

AZTEC selects the optimal TEM(s) for trial from a given set of input variables based on application attributes that the user specifies. The program also contains an analysis worksheet, which simulates how the TEM(s) will function under a specific set of operating conditions. Available only online, the AZTEC tool is accessible from the Downloads tab located in the Thermoelectric Modules and Thermoelectric Assemblies (TEAs) sections of the Laird Technologies Website: <http://www.lairdtech.com/Products/AZTec-Software-Download/>.

Registration is required for first-time users by completing and submitting the online form, and then following the software installation instructions.

“The product breadth of a TEM portfolio is very broad and it can be quite cumbersome for a thermal engineer to specify an optimal TEM based on a cross-comparison of datasheets”, commented Andrew Dereka, Laird Technologies Thermoelectrics Product Manager. “AZTEC is a user friendly tool that can speed up product development by running simulations on a TEM and seeing its expected output performance based on a given set of thermal and electrical operating points.”

-- continued --

The interface offers users several options when selecting TEM parameters. The TEM Selection Tool uses input variables, such as heat load, ambient and control temperatures, input voltage requirement, and thermal resistance of hot side heat exchanger to recommend an ideal TEM(s) needed to reach an application's operating condition. The software has been updated with the latest TEM product offering from Laird Technologies.

The Analysis Worksheet Tool simulates the expected thermoelectric output parameters based on a given set of thermal and electrical operating points. Output parameters calculated are the hot and cold side temperatures of the TEM, heat pumped at the cold surface of the TEM, coefficient of performance (COP), and input power requirements. The total hot side heat dissipation is also calculated, which is beneficial in sizing a proper heat exchanger, which commonly mounts directly onto a TEM.

The Qc Estimating Worksheet calculates an estimate on the heat load for device (spot) or chamber (volume) cooling applications. Computations are made based on input provided by the user such as temperature requirements, volumetric dimensions, insulation thickness, material properties, and active heat load.

As an industry leader in high-performance and cost-effective TEM solutions, Laird Technologies provides the knowledge, innovation, and resources to ensure exceptional thermal performance and customer satisfaction for applications in the medical, analytical, telecom, industrial, and consumer markets.

#### **About Laird Technologies, Inc.**

Laird Technologies designs and manufactures customized, performance-critical products for wireless and other advanced electronics applications.

The company is a global market leader in the design and supply of electromagnetic interference (EMI) shielding, thermal management products, mechanical actuation systems, signal integrity components, and wireless antenna solutions, as well as radio frequency (RF) modules and systems.

Custom products are supplied to all sectors of the electronics industry including the handset, telecommunications, data transfer and information technology, automotive, aerospace, defense, consumer, medical, and industrial markets.

Laird Technologies, a unit of Laird PLC, employs over 10,000 employees in more than 39 facilities located in 13 countries.

### **Contact Information**

For additional information, visit <http://www.lairdtech.com> or contact us at:

Americas: +1.888.246.9050  
Europe: +46.31.420530  
Asia: +86.755.2714.1166  
e-mail: [clv.customerpos@lairdtech.com](mailto:clv.customerpos@lairdtech.com)

### **Translations**

Translated versions of this press release are available in Simplified and Traditional Chinese, Japanese, Korean, and German languages.

### **Trademarks**

© 2010 All rights reserved. Laird Technologies and its logo are trademarks of Laird Technologies, Inc. Other products, logos, and company names mentioned herein, may be trademarks of their respective owners.

###