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**FOR IMMEDIATE RELEASE**

**April 29, 2010**

*State-of-the-art Gallium Nitride non-linear model predicts unparalleled performance...*

## Nitronex and Modelithics Release Enhanced Non-Linear Gallium Nitride Device Model

Durham, NC and Tampa, FL (April 29, 2010) Nitronex and Modelithics have released the first state-of-the-art non-linear model for Nitronex's high power gallium nitride (GaN) NPT1012 device. The model combines heating effects, static and dynamic bias characteristics with large signal performance to deliver accuracy unlike other GaN HEMT device models. The collaborative model predicts performance of the NPT1012 in broadband application circuits specifically targeting the military communications, electronic warfare and radar markets.

Modelithics President and CEO Larry Dunleavy commented that, "We have enjoyed working with Nitronex on multiple projects this past year and especially for this first external model release. We have the same goal of enabling more efficient, higher power, and broader band GaN PA Designs." The NPT1012 is now available as a free download from Modelithics' website for Agilent Technologies Advanced Design System (ADS) and AWR Microwave Office (MWO) software at <http://www.modelithics.com/mvp/NIT/>. The models will also be included in the next update of Modelithics® Select free shareware library, available for ADS and MWO. Select is also downloadable from [www.modelithics.com](http://www.modelithics.com).

"We are enthusiastic about the global release of the NPT1012 model as a result of our



collaboration with Modelithics for non-linear models of our thermally-enhanced power products,” said Gary Blackington, Vice President of Worldwide Sales and Marketing for Nitronex. “The simulated performance predicted by the NPT1012 model, and the accuracy with which it compares to measured results in high efficiency, high power and broadband power amplifiers has been well received by our strategic customer base.”

#### **About Modelithics, Inc.**

Modelithics, Inc. ([www.Modelithics.com](http://www.Modelithics.com)) was formed in 2001 to address the industry-wide need for high-accuracy RF and microwave active and passive simulation models for use in Electronic Design Automation (EDA). Current products include the *CLR Library™*, which contains measurement-based *Global Models* for a multitude of commercially-available passive component families, the *NLD Library™* (non-linear diode models) the *NLT Library™* (non-linear transistor models), and the *SLC Library™* (*system level component models*). Modelithics' services also address a wide range of custom RF and microwave measurement and modeling needs.

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#### **About Nitronex**

Nitronex Corporation is an innovative leader in the design and manufacture of gallium nitride (GaN) based RF solutions. Nitronex is the pioneer in developing high performance gallium nitride on silicon (GaN-on-Si) semiconductor solutions using its proprietary SIGANTIC® manufacturing process. Nitronex products enable high performance applications in the defense, communications, and industrial & scientific markets. An ISO-9001 certified manufacturer, Nitronex was founded in 1999 and is headquartered in Durham, NC. Nitronex holds 23 patents with 16 others pending. For more information, please visit the Nitronex web site at [www.nitronex.com](http://www.nitronex.com).

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