



## Press Release

### Giga-tronics and CAP Wireless Collaborate to Provide Superior Power Amplifier Solution

*Solid-state power amplifier delivers outstanding performance and exceptional value for defense and commercial wireless applications*

**SAN RAMON, Calif. and NEWBURY PARK, Calif. — June 9, 2008 —** Giga-tronics Incorporated (Nasdaq "GIGA") and CAP Wireless Incorporated today announced a joint technology, marketing, and support agreement in which Giga-tronics will incorporate CAP's unique Spatium™ spatial combining technology into its GT-1000A Microwave Power Amplifier. The GT-1000A rack mount broadband power amplifier, combined with the Spatium engine, delivers outstanding performance and exceptional value for electromagnetic interference/compatibility (EMI/EMC) test, semiconductor evaluation, load pull, antenna range, and microwave laboratory applications. Excellent pulse performance and modulated signal fidelity make these amplifiers ideal for defense electronic warfare (EW) and radar testing.

The GT-1000A provides 2 to 20 GHz, 10 watt, instrumentation-grade microwave amplification and replaces traveling wave tube amplifiers (TWTAs) with rugged solid-state reliability, safe low-voltage operation, no aging characteristics, and fault tolerance. The unit saves cost and time and increases reliability by offering 2 to 20 GHz in one instrument and eliminating band switching with multiple amplifiers required with older technology. The solid-state Spatium technology delivers exceptionally broad bandwidth, high power, linearity, low noise (noise figure < 8 dB), and superior harmonics (< -30 dBc, spurious < -60 dBc).

"The integration of CAP's innovative spatial combining technology within Giga-tronics' high performance test equipment capability adds a new dimension to the microwave test universe," said Scott Behan, vice president of marketing at CAP. "The unprecedented combination of broadband solid-state power amplification with broadband signal synthesis provides an extremely broad range in testing from less equipment, saving time, space and money for our customers."

Rodrick Cross, vice president of sales and marketing at Giga-tronics, adds, "We regularly receive requests for one watt and higher output power from our microwave signal generator customers. The GT-1000A has significant benefit as a stand-alone broadband microwave power amplifier, but the combination with a Giga-tronics' synthesizer offers the remarkable capability of delivering up to 10 watts of leveled output power along with all the other outstanding features of the microwave signal generator."

**Giga-tronics and CAP Wireless will be demonstrating the GT-1000A Microwave Power Amplifier with Spatium technology at the IEEE International Microwave Symposium 2008, June 17-19 in Atlanta, GA, at Giga-tronics' booth #1115 and CAP's booth #742.**

### **About the Giga-tronics GT-1000A Microwave Power Amplifier**

The Giga-tronics GT-1000A microwave power amplifier offers linear high-power amplification across multi-octave bandwidths and is ideal for testing in EMC, wireless communications applications, and defense EW systems. The GT-1000A microwave power amplifier can be paired with the Giga-tronics 2400B or 2500A frequency synthesizer to deliver +40 dBm of leveled output power from 2 to 20 GHz. The GT-1000A has an internal coupler/detector, allowing optimum control by the synthesizer. It provides all the power needed for overcoming cable and switching loss to the DUT, for driving high power rated components like mixers and limiters, or for high power pulse applications. The GT-1000A can be used as a general purpose R&D lab amplifier, as an exciter for high-power transmitters, or can be rack mounted for ATE and system integration for manufacturing test. The GT-1000A is ideal for EMI/EMC testing and for standards labs where broadband frequency coverage saves time and improves performance.

### **About CAP's Spatium Technology**

The CAP Wireless patented Spatium broadband spatially combined power amplifier technology excels when extremes of bandwidth and power are demanded. This breakthrough product, which incorporates a coaxial antipodal finline structure within a proprietary spatial combining architecture, provides the solid-state stability and reliability with exceptionally broad bandwidth and high power. Spatium's unique circuit topology enables a highly manufacturable platform that leverages component commonality between different models. This eliminates time-consuming redesigns for each variation and increasing repeatability unit-to-unit, resulting in significant time-to-manufacture cost-savings for customers. The Spatium technology is uniquely positioned to meet the demanding specifications of applications such as electronic counter measures (ECM), laboratory instrumentation, and electromagnetic compatibility/electromagnetic interference (EMC/EMI) test, as well as narrower band applications like radar, microwave imaging, and satellite communications.

### **About Giga-tronics**

Giga-tronics Incorporated (Nasdaq "GIGA"), headquartered in San Ramon, California, is a leading engineering-and-design manufacturer of best-in-class RF and microwave synthesizers, power meters and broadband switching matrices. R&D, production and calibration managers, scientist, engineers and technicians, around the world, use Giga-tronics test equipment and achieve lower cost, higher productivity and greater ease of use in many applications: ATE systems, aerospace & defense, telecommunications and general component test. Don't just test, Giga-Test your best products and systems by using Giga-tronics equipment. URL: [www.gigatronics.com](http://www.gigatronics.com)

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### **About CAP Wireless**

CAP Wireless develops and manufactures a broad range of RF and microwave amplification products and related subsystems for homeland security, defense electronics, and commercial microwave markets. The company's Spatium product line provides extremely broad bandwidth, high-power, solid state amplifiers for applications such as electronic warfare (EW) systems, radar and communication systems, laboratory instrumentation, and electromagnetic compatibility and interference testing. Applications currently in development include high-power amplifiers for radar, microwave imaging, and satellite and terrestrial communications systems. CAP Wireless, Inc. is a privately held corporation headquartered in Newbury Park, CA. For more information about CAP Wireless and its products, please call 805-499-1818, email [info@capwireless.com](mailto:info@capwireless.com), or visit [www.capwireless.com](http://www.capwireless.com).

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