

## Antenna Measurement System Enhances R&D Capabilities for AAC – A Global Leader in Micro Component Solutions

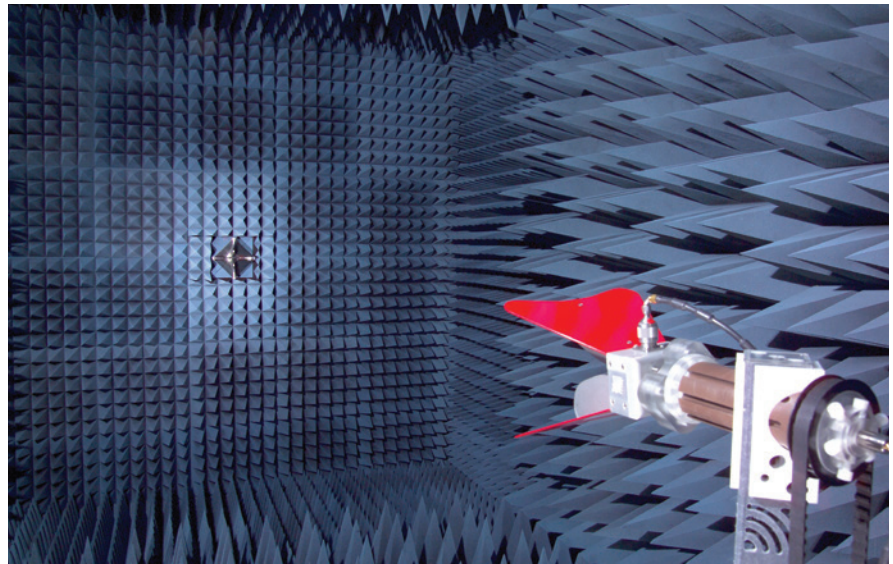
AAC offers wide-ranging, innovative technology design solutions for mobile telecommunications, IT products, consumer electronics, home appliances, automotive and medical applications. The company's products are used in a variety of popular devices, including mobile handsets, tablets, notebooks, and MP4 players, as well as in many other consumer electronics.

With the addition of the ETS-Lindgren AMS-8500 Antenna Measurement System, AAC expanded their in-house research and development capabilities for wireless devices and components. Model AMS-8500 is used primarily to conduct cellular and LTE-SISO testing in accordance with CTIA - The Wireless Association<sup>™</sup> standards for wireless devices, such as those manufactured by Motorola, Nokia, Sony, Samsung, LG, HTC, RIM, HP, Philips, Bosch, Delphi, Lenovo, ZTE, and Huawei – to name just a few of AAC's globally recognized customers.

### AMS-8500 Technical Specifications

Antenna Measurement System, Model AMS 8500, is a convenient turnkey system that includes the chamber, software and supporting test instrumentation. Notable features include:

- A high-performance RF shielded rectangular anechoic chamber with nominal dimensions of 7.5m x 4m x 4m (24 ft 6 in x 13 ft x 13 ft).



*Interior of an AMS-8500 Wireless Test and Measurement Chamber*

- Designed for Radiated Performance Testing of 2G, 3G and 4G wireless equipment and mobile handsets.
- Measures active mobile radios at a far-field and/or radiating near-field test distance for testing low directivity equipment and antennas.
- Provides far-field measurements at a separation distance of approximately 5m (16 ft).
- Provides required far-field test distance for an EUT with a maximum dimension of 50cm (1 ft 6 in) for bands I, II and III. For bands IV and V, provides radiating near-field test conditions with a minimum measurement uncertainty penalty in the frequency range of 3.4 to 3.8 GHz for the same 50cm (1 ft 6 in) maximum EUT dimension.
- For 3G WiMAX testing, the operational frequency range for the five bands is between 2.4 to 3.8 GHz.
- Multi-Axis Positioning System (MAPS) features a turntable, removable mast, motor drives, rotary joint and fiber-optic interface to the controller.
- EMQuest<sup>™</sup> EMQ-100 Antenna Pattern Measurement Software acquires data and provides full post processing capabilities.
- Standard gain and octave horn transmit and receive antennas operate from 0.96 GHz to 40 GHz.

## Customer Training

To maximize AAC's investment in its new wireless test system, ETS-Lindgren provided onsite training for AAC personnel on wireless device design and test evaluation upon project completion.

## Experts in Wireless Testing

ETS-Lindgren has long been at the forefront of wireless testing with numerous "industry firsts" to its credit, including:

- Design and installation of the world's first WiMAX Forum Designated Certification Laboratory for performing WiMAX RPT testing.
- Design and installation of the world's first CTIA Authorized Test Lab (CATL) approved for performing CTIA Part 2 Over the Air (OTA) performance testing.

Today, more than 75% of the CTIA Authorized Test Labs (CATLs) utilize ETS-Lindgren's solutions for over-the-air radiated performance testing.

ETS-Lindgren's goal is to maintain its leadership expertise in the test and measurement of wireless devices. To meet this goal, the company will continue its collaboration with and technical contributions to the wireless industry organizations leading the technology and standards development for the testing of wireless devices, including CTIA and the Wi-Fi Alliance.

With manufacturing and customer service offices in Europe, Asia and the US, ETS-Lindgren is committed

to providing state-of-the-art, turnkey wireless test solutions worldwide.

## About AAC

Founded in 1993, AAC is one of the world's foremost vertically integrated manufacturers of micro components, combining integrated technology, design, and manufacturing to ensure customers receive the highest quality products at competitive prices. As a total solutions provider, AAC offers extensive experience and expertise in designing and manufacturing a diverse range of components, including acoustics, antennas, optics, haptics, and Li-ion polymer batteries for mobile devices. The company's main office is located in Shenzhen, China and is supported by global sales and sales support offices conveniently located throughout Asia, Europe, and North America. AAC has five separate, state-of-the-art, independently certified production facilities, as well as eight research and development centers located throughout the Asia-Pacific region. All work together to provide customers with the best solutions and the newest innovation, creating tremendous value. The company is known as a virtual "One Stop Shop". AAC has been listed on the Hong Kong Stock Exchange since August, 2005 (SEHK:02018.HK).

## About ETS-Lindgren

ETS-Lindgren is an international manufacturer of components and systems that measure, shield, and control electromagnetic and acoustic energy. The company's products are used for electromagnetic compatibility (EMC), magnetic

resonance imaging (MRI), microwave and wireless testing, electromagnetic field (EMF) measurement, radio frequency (RF) personal safety monitoring, and control of acoustic environments.

Headquartered in Cedar Park, Texas, ETS-Lindgren has manufacturing facilities in North America, Europe and Asia. The company is a wholly owned subsidiary of ESCO Technologies, a leading supplier of engineered products for growing industrial and commercial markets. ESCO is a New York Stock Exchange listed company (symbol ESE) with headquarters in St. Louis, Missouri. Additional information about ETS-Lindgren is available at [www.ets-lindgren.com](http://www.ets-lindgren.com). Additional information about ESCO and its subsidiaries is available at [www.escotechnologies.com](http://www.escotechnologies.com).

## For More Information

ETS-Lindgren engineers have written numerous educational papers and articles on wireless testing. Many are available for download on the ETS-Lindgren website under Resources – Articles & White Papers.

To learn more about ETS-Lindgren's wireless solutions and capabilities, see [www.ets-lindgren.com/Wireless](http://www.ets-lindgren.com/Wireless).