

Capabilities Overview

AEROFLEX

Brief descriptions of Aeroflex Test Solutions capabilities and areas of expertise

▼ ATE



Inheriting Marconi Instruments' and IFR's reputation for quality, reliability and innovation, Aeroflex has maintained a cutting edge position in ATE manufacturing test solutions. With well established electrical test systems and more recently a multi-strategy test platform, Aeroflex continues to be well-placed to test the complete range of circuit board technology. Aeroflex's support infrastructure is designed to provide the support required by today's printed circuit board manufacturers and their global operations.

▼ Automated/Customized Test



Aeroflex designs turnkey, automated test systems geared to current and future technologies (Wi-Fi, Bluetooth®, WiMAX, 2G, LTE, GPS, audio/video, etc.) that are built into today's multimedia devices, such as smart phones, automotive telematics, and handsets. We also develop custom, automated systems that run crucial tests on radio-frequency integrated circuits and devices, such as power amplifiers, Wi-Fi, Zigbee, and SoCs. We integrate off-the-shelf technologies with highly specialized engineering services and award-winning products and software to solve the most complex testing requirements.

▼ Avionics



Aeroflex's avionics test equipment is used to design, manufacture, test and maintain commercial, private and military airborne electronic systems. With the quality and performance you have come to expect from Aeroflex, our avionics test solutions provide the critical data needed to ensure a safe flying environment. Aeroflex has been the industry leader in avionics testing for more than 30 years and continues to lead with innovative solutions.

Innovative avionics test solutions to provide a safe, economical and comfortable flying environment.

▼ Broadband Generators & Analyzers



The CS9000 products offer the highest speed and performance in broadband test including radios as well as point-to-point microwave and satellite links testing. These products enable you to test analog and digital signals quickly and cost-effectively.

Powerful, flexible and easy to use!

▼ Counters & Power Meters



Frequency range from 30 kHz to 46 GHz and power levels from -70 dBm to +44 dBm (25 W). Designed for field use or bench use, field and standard bench applications. This product range also includes the CPM (Counter Power Meter), a ruggedized solution for microwave frequency and power measurements in the field.

▼ Frequency Synthesizers & IMAs



Bandwidth - 10 MHz to 40 GHz, low phase noise, low spurious and low harmonics, high frequency resolution - 1 Hz and extremely fast switching speed (200 ns). Unmatched for high performance ATE and military applications. A leader in High Frequency Fast Switching Frequency Synthesizers, Aeroflex has expanded its focus to include the areas of multi-function modules and integrated sub-systems.

▼ Land Mobile Test



Aeroflex continues to be a market leader in radio test technology with a wide range of test system that covers wireless applications including TETRA, P25, DMR, dPMR, NXDN™ and other radio communication standard. Dedicated to increasing your productivity and lowering the cost of test, Aeroflex develops, manufactures and sells products that will protect your investment with upgradable software modules to meet the latest protocol standards.

▼ Military Communications



In government communications, we provided the first multi-functional multi-radio integrated test set (AN/GRM-114) fielded for the U.S. Armed Forces. We continue to evolve our test equipment to provide "State of the Art" capabilities for semi-automated verification testing and/or fault isolation of military communications systems from a single, portable platform.

NATO provider of military communications test equipment!

▼ PXI - RF Modular Instruments



The 3000 Series expands PXI's speed and modularity into the realm of general-purpose wireless testing. The range includes a broad choice of PXI chassis and modular PXI instruments for wide bandwidth RF signal generation, RF signal analysis and RF signal conditioning for signals up to 6 GHz. Ideally suited for production testing, the Aeroflex 3000 Series is supported by the PXI Studio application software for vector signal analysis of complex wireless communications systems. With a portfolio of libraries in continual expansion, the PXI system is capable of supporting multiple wireless standards including GSM/EDGE, UMTS/ HSPA, LTE FDD, CDMA 2000 and 1xEVDO, TD-SCMA, WiMAX, WLAN and Bluetooth® wireless technology.

The flexibility you demand at a price you can afford!

▼ RF and Microwave Test



Frequency range from 1 MHz to 46 GHz (up to 110 GHz with external mixer) Features: tracking/offset/CW/modulated source, scalar and spectrum analyzers, fault location and group delay for characterization of components and assemblies. 40 GHz pulse generation option for radar and threat simulation.

▼ Signal Analyzers



Radio systems are designed around complex signaling protocols, and their development and ongoing revision can be greatly accelerated by having versatile test equipment right from the early stages. Our signal analyzers provide frequency range from 100 MHz to 2.5 GHz designed for laboratory and manufacturing test applications in RF communications. Great strides have been made in every area of design to produce highly linear, accurate, fast and user friendly products to serve today's measurement challenges.

RF digitizers, unique solutions for unique needs!

▼ Signal Generators



Primary applications include: (Receiver) sensitivity adjacent channel, blocking, spurious response, SINAD; (Amplifier) ACP, IMD, 1 dB compression testing; (Component characterization) mixers, filters; (Avionics) ILS/VOR/DME/VDL; (Wireless product test) 2G and 3G cellular, TETRA, paging, 802.11a, b and g; (EMC) Compliance testing. We develop our entire line of signal sources with excellent phase noise characteristics plus exceptionally high output power.

Superior performance at an excellent price! Deployed worldwide for microwave test and measurement!

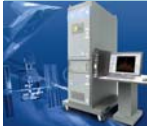
▼ Spectrum Analyzers



Fully synthesized with frequency ranges up to 26.5 GHz with a tracking generator option. Excellent for a variety of applications including: mobile communication workshops, base station testing, handset repair and maintenance, broadcast testing, microwave and much more. High performance, reasonable prices and several models to fit your needs.

Performance that goes far beyond the price tag!

▼ Synthetic



Aeroflex is the industry leader in high speed and high performance RF and microwave synthetic test systems. Synthetic Test Environments "synthesize" stimuli and measurement capabilities found in any traditional instrument through a combination of software and hardware modules integrated in a synthetic architecture, which includes sophisticated algorithms, calibration and diagnostic routines, as well as NIST traceable standards and an open software architecture. Since this approach is instrument independent, this type of synthetic test environment is obsolescence proof and easily maintainable, thus offering the highest performance at the lowest life cycle cost in the industry for Satellite Payload, T/R Module, Radar and EW, and general RF/Microwave Test Solutions.

▼ System Solutions



Aeroflex is the leading provider of next generation synthetic instrumentation with particular emphasis on high speed and high performance RF and microwave test solutions. Systems include many diverse analog, digital, telecoms, and power test and measurement capabilities. Our dedicated team applies years of experience in measurement sciences, design and integration and instrument synthesis software to every customer's unique needs. These flexible, modular and upgradable test systems provide significant reductions in total cost of ownership for both government and commercial customer.

▼ Wireless Test Systems



Aeroflex offers a full range of protocol, physical layer and parametric test solutions for the cellular communications industry. Products address infrastructure, capacity test and mobile handset testing and support all stages of mobile phone and radio access network equipment development and deployment. Applications include R&D, conformance, production, installation and commissioning, field service and network optimization. Covering all key 2G, 2.5G, 3G and 4G wireless technologies including LTE, UMTS, HSDPA, HSUPA, cdmaOne, CDMA2000, TD-SCDMA, GSM, GPRS and EDGE worldwide.

Aeroflex has the agility to continuously adapt its products as required.

Service

Aeroflex Test Solutions Service and Support is committed to providing world class service and support through a portfolio of comprehensive products all designed to meet or exceed your expectations. Our goal is to provide seamless global support to our diverse customer base in a manner that reduces the cost of ownership while increasing customer satisfaction. For more detailed information contact your regional office or local sales representative. We will be glad to assist you.

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