

### Systems Capability

Aeroflex has considerable experience in building a large number of test systems covering a wide market sector including full system design, test definition, build to print, from DC to Microwave.

### Open Hardware Standards

Aeroflex have experience in providing test solutions based on the following technologies: -

- PXI
- VXI
- VME
- PCI
- Rack & Stack



Aeroflex will not limit you in your choice of hardware. Aeroflex believe in a multi-vendor approach to instrumentation and are willing to include third party instrumentation into a solution.

### Open Software Standard

Aeroflex can provide test solutions using any of the leading tools available today, and are happy to offer guidance on the best software architecture to suit your particular application.

- LabWindows CVI
- LabView
- Test Stand
- C++
- HP VEE
- Visual Basic
- Aeroflex Test Program Generation.



### i-Base Information Management System

i-Base Information Management System has been a part of many organizations' initiatives to drive stock and cost out of the manufacturing process. The i-Base suite of software tools has been significantly enhanced to add more features and improve the overall functionality of the package. i-Base releases valuable manpower from collecting and collating information to focus on core activities and adding value to the manufacturing process. i-Base will automatically monitor all the manufacturing data from stage location, in-circuit test data, functional test data, repair information, system assembly, system test and calibration. i-Base turns the data into information and presents accurate, timely information upon enquiry.

i-Base is an invaluable information management tool, providing:

- Time information, on-line
- Interactive reporting
- Paperless repair, with repair hints
- Extensive off-the-shelf capability
- Transformation of data into information
- Processing of management intelligence
- Increased rework/repair effectiveness
- A ready to run package from day one



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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.

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## Test Solutions & Systems



## Aeroflex Test Solutions

Aeroflex Incorporated is a multi-faceted high technology company that designs, develops, manufactures and markets a diverse range of Test & Measurement and microelectronic products. Aeroflex Incorporated, a public company founded in 1937, employs approximately 1,700 people in world-wide locations. Aeroflex Incorporated exports to more than 160 countries where our products are in use supporting communication systems, networks and automatic test systems.

Aeroflex's acquisition of IFR Systems (Including Marconi Instruments) was arguably the most significant in the company's history. IFR was a leading designer of advanced test solutions for communications, avionics and general test and measurement applications. The addition of IFR's excellent products, technology and sales organisation successfully strengthened Aeroflex's capacity to serve their customers and expand their business. The wide experience gained from this background, combined with a detailed awareness of future needs through regular contact with end-users, provides the company with a sound basis for satisfying the measurement requirements of its many customers.

## System Design & Integration

Aeroflex Test Solutions has many years of experience in offering custom hardware and software test solutions. Aeroflex is able to provide unrivalled capabilities in both the commercial and military market for complex areas of electronic test, measurement service, control and management.

The configuration of any system will depend on each application but will be fully optimised to meet the required application and budget constraints.

Aeroflex will be happy to undertake your custom test system design, build and manufacture including test definition or build to print. Aeroflex manufactures systems for PCB, sub-assembly and module test from DC to Microwave.



## Delivering Systems Across Many Industries

- Multi-Purpose RF test system for 2G and 3G cellular base station amplifiers.
- Core production test system for TETRA Mobiles
- Goods inwards test for GSM handsets
- Vehicle Radio Test System, to provide verification of operation of in vehicle infotainment system.
- Military Aircraft Microwave cable characterisation and test system
- CDMA single and dual-mode handset test system
- Head Up Display Test system
- Flight Control Computer Test System
- Wing Pylon Test
- Engine Management Test System
- Telecom Remote Monitor
- Radio
- Radar
- Avionics
- Automotive
- Telecommunications
- Military
- Consumer Electronics
- PCB/Module Test

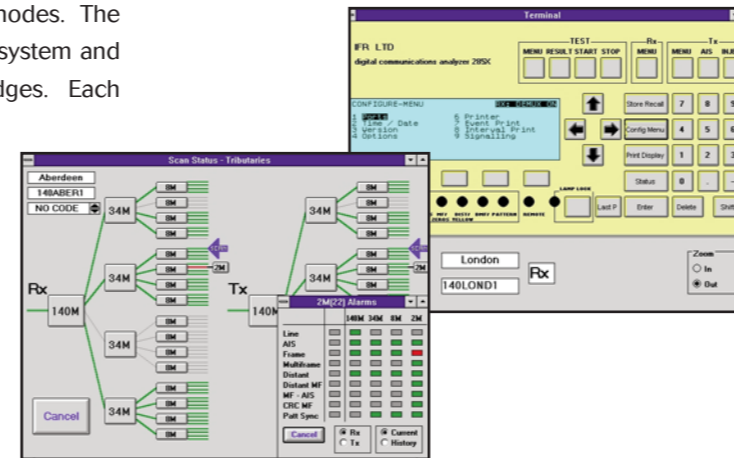
## Remote Monitoring

Aeroflex has created a software application that allows pro-active fault finding of telecommunications networks from a central site. The system allows network operators to monitor PDH traffic at key network locations. The system consists of a central node and multiple remote nodes. The central node allows configuration of the overall system and is connected to remote sites using modem bridges. Each remote node can be interrogated for an in depth monitoring of lines and analysis of errors and alarms. Remote nodes are configured with Aeroflex 2845/5 Digital Transmission / Communications Analyzers connected to the 140Mbit/s transmission lines through a switch module.

## Test Fixturing

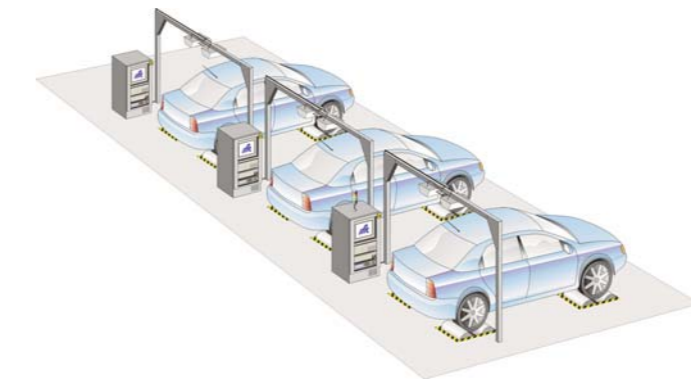
Aeroflex can provide comprehensive test solutions from Europe's largest test bureau. With our background in RF and Microwave we are market leaders in providing complex fixturing solutions.

- Custom fixturing and cabling systems
- Mass terminations, MAC Panel & Virginia Panel
- MDA, In-circuit and Functional Test
- Fixturing solutions including kits, customization and turnkey projects
- Design for Test consultancy
- Software tools for CAD data handling



## Vehicle Radio Test System

The Aeroflex VRTS is capable of fully automatic testing of vehicle infotainment installations with tests performed while the operator is outside of the vehicle. Used in this way there is no impact on the vehicle test time or cost. Where fully automatic testing is not required or not possible, the VRTS can be used in a manually assisted mode with the operator remaining in the vehicle to carry out various simple operations. The capabilities of the system include AM & FM radio checks, GSM & AMPS cell phone tests and loudspeaker testing.



## TETRA Production Test System

The Tetra Production test system is a highly versatile system configured to provide a production test platform for Tetra terminals supplied with software, hardware and product interfacing which is configurable to support Tetra terminals of different manufacturers.

This system provides an open architecture for both hardware and software using industry standard IEEE instruments and National Instruments based software. The Tetra test system is typically supplied as a 26U high compact floor standing 19" rack cabinet. This provides room for further instrumentation allowing for system expansion in line with future customer requirements. System control is supplied by an industry standard rack mounted PC running a Windows XP Professional operating system. UUT test fixtures can also be supplied.

## Microwave Link Analysis

The Aeroflex group delay test system is a unique product ideal for engineers working in the microwave and satellite communications industries.

The Aeroflex group delay test system uses Aeroflex 6840 Series microwave analyzers coupled with serial modems and a control PC running dedicated software. Using the GPIB interface to the local analyzer and a serial connection to a remote analyzer, the instruments are configured to obtain a relative group delay measurement across the section of link to be analyzed. The instruments used as source or analyzer will depend on the direction of the measurement required. The two instruments are synchronized together over the frequency sweep. GPS receivers can be used at either end of the system to obtain a common reference. Measurement data is then returned from the remote end to the local control PC allowing for review and storage of the results.

## 2G and 3G Cellular Base Station Amplifier Test

Aeroflex have produced a comprehensive automated test system for testing Cellular Base Station Amplifiers. Test solutions have been provided for complete amplifier units and internal sub-assemblies.

Test interfacing was accomplished using high quality RF cabling for unit test, and custom interchangeable fixturing for sub-assemblies including UUT heating and cooling elements.

The test systems covered a full range of tests including Network Analysis measurements and full functional test.

