

# Product Capabilities

## General Purpose Test Equipment

### Signal Generators

Aeroflex's signal sources are applicable to a diverse marketplace that includes wireless cellular, avionics, military and radar. Fast switching, low phase noise, wide bandwidth, adjacent channel power and memory deep enough to support complex digital waveforms continue to be key attributes within the signal sources product line offered by Aeroflex.

### 3410 Series Digital RF Signal Generators



- Frequency coverage 250 kHz to 6 GHz
- Fast RF frequency settling <500  $\mu$ s
- Fast level setting time <3 ms
- Optional dual-channel arbitrary waveform generator
- Waveform switching time <5 ms
- Differential IQ outputs
- Exceptional modulation linearity

With its uncompromising levels of RF performance the 3410 Series is the ideal tool for RF test applications in both R&D and manufacturing.

Combining full digital, vector and analog modulation in a 2U rack size, the 3410 offers broadband modulation bandwidth, fast GPIB response time, high output power, differential IQ outputs and excellent modulation accuracy and linearity.

### Spectrum Analyzers

Aeroflex's Spectrum Analyzers are fully synthesized analyzers with frequency ranges up to 26.5 GHz with a tracking generator. They are excellent for a variety of applications including mobile communication workshops, base station testing, handset repair and maintenance, broadcast testing, microwave and much more. Spectrum analyzers have high performance, reasonable prices and come in several models.

### 2390 Series Spectrum Analyzers



- 2399C 1 kHz to 3 GHz
- Lightweight, portable and rugged construction at 9.4 kg (20.7 lbs.)
- Excellent TFT color display
- Comprehensive marker facility
- Wide input signal range +30 dBm to -110 dBm

### 3250 Series Spectrum Analyzers



### Outstanding performance, exceptional price and innovative design

- Frequency coverage 1 kHz to 26.5 GHz
- DANL -145 dBm/Hz
- Phase noise -115 dBc/Hz
- 30 MHz IQ demodulation bandwidth

The NEW 3250 Series has been developed to provide market leading performance at a low cost. The innovative compact design 3250 spectrum analyzer employs the latest digital processing and RF technology, providing accomplished accuracy, stability and measurement speed.

### Signal Analyzers

Aeroflex RF Digitizers offer unique solutions for unique needs. With a frequency range from 100 MHz to 2.4 GHz our Signal Analyzers are 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.

### Aeroflex General Purpose Test Products

- 2023A/B/25 Signal Generators
- 2026A/B Multi-Source Signal Generators
- 2030/40/50/T Signal Generators
- 3412/3/4/6 Digital RF Signal Generators
- 3002 VXI Signal Generator
- FS1000/1200/2000/5000 Frequency Synthesizers
- MS5000 Airborne Frequency Synthesizer
- 2106 Frequency Synthesizer
- 2126 Frequency Synthesizer
- 2200 Frequency Synthesizer
- 2390 Series Spectrum Analyzers
- 3250 Series Spectrum Analyzers
- 3280 Series Spectrum Analyzers
- Easy Span II Application Software
- 2309 Signal Analyzer

# A passion for performance.

## Telecommunications

### 2850 Series Digital Communications Analyzers

- Combined data and PCM rate testers
- Designed to cover error performance and network equipment measurements from data rates and E1 hierarchy to 140 Mbit/s
- Framed/unframed operation
- Options for EUROCOM and T1

Applications include installation and commissioning, maintenance, in-service monitoring, R&D and production testing.

The 2850 Series Digital Communications Analyzers provide PCM rate plus data interface testing for all commonly used interfaces. An X.50 option enables detailed testing of structured data and EUROCOM options expanding data capability into military systems. DC and battery power options are available.

## Microwave

Our comprehensive microwave analyzer products help round out the Aeroflex test and measurement product portfolio. The requirements to cover wide frequency range and bandwidth are key drivers and attributes of the Aeroflex general purpose test product line.

### 6840A Series Microwave System Analyzer



- Integrated source, scalar and spectrum analyzer
- 3 GHz, 8.4 GHz, 20 GHz, 24 GHz, 40 GHz and 46 GHz frequency versions
- Precision scalar network measurements with high dynamic range
- Comprehensive group delay measurement capability without the need for external devices and complex calibrations even when characterizing frequency translation devices.

The 6840A Series RF and microwave system analyzers are powerful tools for the microwave industry. Integrated into a single instrument are a synthesized source, a three input scalar analyzer and a synthesized spectrum analyzer. The internal source can be used as a simple CW output, as a swept source for scalar measurements, as a tracking generator with the spectrum analyzer and as an offset tracking source for network measurements on frequency translation devices.

### 6820A Series Microwave Scalar Analyzer

- Integrated source and scalar analyzer
- Synthesized source with low harmonic content
- Precision scalar network measurements
- Real time fault location with 0.1% accuracy

## Counter Power Meters

### CPM 20 and 46 Counter Power Meters



- Combined frequency counter and power meter
- 10 MHz to 20 GHz and 10 MHz to 46 GHz versions available
- Large, easy to read screen allows simultaneous display of both power and frequency measurements
- Built-in DVM for AGC voltage measurements

Aeroflex's Counter Power Meter (CPM) is a portable combination of three instruments: a microwave frequency counter, true power meter and digital voltmeter. A compact instrument with internal rechargeable battery, ruggedized case and carrying strap, it can be used up a tower, on a roof top or at a field site.

### 6970 Precision Handheld Power Meter



For the installation and maintenance engineer, the 6970 is low cost and portable. For bench operation, the instrument takes up little bench space and can be powered from the AC adapter.

## Aeroflex General Purpose Test Products

- 6810 Series Microwave Generators
- 6820 Series Microwave Scalar Analyzers
- 6840 Series Microwave System Analyzers
- CPM 20/46 Counter & Power Meters
- 6960B RF Power Meters
- 6970 RF Power Meters
- 6910/6920/6930 Series RF Power Sensors
- 2850B/S & 2851/S Digital Analyzers
- 2852/S & 2853/S Digital Analyzers
- 2854S & 2855S Digital Analyzers

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