

PROVISIONAL

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5800 Series Combinational Tester

AEROFLEX
A passion for performance.



The NEW multi-Configuration multi-Strategy test system

- Combinational Test Platform
- Three Different Body Styles
- 21 Slot PXI Based Backplane
- 19 Slots available for Instrument cards
- Automatic Program Generation Software
- Maximum of 3456 Analog In-Circuit Test points
- Separate User and Personality Power Supplies

Versatility

The Aeroflex 5800 series is a truly versatile and flexible test system giving the ability to use any 3U PXI instrument cards alongside the 5800's instrument cards. The three different body styles add to this versatility. Whether it's floor standing, benchtop or rack mounted, the common core of a 21 slot rack, National Instruments MXI controller and a power and utilities card, remains the same.

Architecture

The Aeroflex 5800 series uses core architecture based on a PXI backplane. This backplane provides the communications to the Aeroflex instrument cards and third party PXI cards. The Aeroflex plug-in instrument cards are 6U high and take advantage of a second backplane thus enhancing the overall system capabilities.

Software Environment

A multi-strategy approach has been taken for the 5800 series. A new Aeroflex integrated test environment has been developed for this product. In addition the user can program in a number of industry standard languages, such as Teststand, Visual Basic.NET or C#. In short anything .NET compatible.

Floor Standing

The floor standing system has the core system positioned at 30 degrees to the horizontal and provides a bed of nails style interface to the fixture. A mechanical locking mechanism pulls

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the fixture down onto the interface. The system provides independent dual well vacuum control to connect the test subject to the fixture. Each floor standing system is provided with 3 programmable user supplies each capable of providing 0 to 35 Volts at 3 Amps or 0 to 15 Volts at 5 Amps. The controller is an industrial PC, running Windows XP, which is mounted inside the system.

Benchtop

This shape provides the same common core system but in a lower cost package. The Aeroflex instrument cards are interfaced to the test fixture by means of interconnecting cabling.

Rack-mounted

This builds the core system into a 19" rack for further test flexibility. The Aeroflex cards can then be cabled to an industry standard interface of the users choice and further integrated with additional test resource that is not available in PXI format.

Aeroflex Instrument Cards

There are currently three cards in the suite with more in development.

Multi-Function Card

This provides a number of commonly used test and measurement functions on one card. These are:

- 2 Channel Reference Generator
- 2 Channel differential Voltmeter
- Programmable Resistance
- Programmable Capacitance
- Current to Voltage conversion
- Guard Amplifier

Test Point Relay Card

This card provides the system switching function between both the pinface and the system busses. It has 192 pinface testpoints.

Multi-Voltage Source Card

This card can provide a higher output voltage and current than standard PXI format cards.

These channels are :

- 2 @ +/- 20V DC 200mA
- 8 @ +/-10V DC 15mA
- 8 @ +/-10V DC 15mA Multiplexed

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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.