

# 7200 CATS

## Configurable Automated Test Set



**AEROFLEX**  
A passion for performance.

### Software Defined Radio, Avionics, Radar and General Purpose Synthetic Test Platform

#### Flexible configuration options

- Micro ATE™ configuration with built-in signal switching for total test automation
- General purpose instrument configurations with high performance front panel oscilloscope and DMM connections
- Multiple signal generation and measurement channels available

#### Broad frequency coverage

- DC to 2.6 GHz standard
- Options to 40 GHz

#### Ultra-wide instantaneous bandwidths

- 90 MHz standard
- Options to 500+ MHz

#### Software defined radio ready

- SCA compatible architecture
- Powerful and expandable real-time baseband processing with deep memory

#### Robust packaging

- MIL-PRF-28800F Class 3
- Rack mount option

#### Advanced software capabilities

- State-of-the-art and highly intuitive touch screen based user interface
- Drag-n-drop test executive with breakthrough automatic test execution optimization for reduced test times

#### Optional functionality

- Analog and digital I/O
- Databus emulation and test
- GPS location, emulation, test and more...

The Aeroflex 7200 Configurable Automated Test Set (CATS) platform provides software defined radio (SDR) manufacturers and users with the most state-of-the-art synthetic instrument platform for testing radios and modules available today, while providing future-proof support for next generation devices in the future. The 7200 also performs as a powerful general purpose test platform, capable of testing the most advanced radar, avionics and other communications devices.

The 7200 CATS combines innovative design and Aeroflex patented technologies with valued feedback from our customers to deliver the most capable test platform in the industry. The following baseline standard features make the 7200 platform unique in its class: 90 MHz instantaneous generation and measurement bandwidths, typical -108 dBc/Hz phase noise performance, 2.6 GHz frequency range and fast hopping capability, coupled with impressive real-time signal processing power and multiple state-of-the-art data transport mechanisms.

The 7200 CATS belongs to our 7000 Series product family and is based on the new Aeroflex Common Platform (CP). The Common Platform represents the most capable, flexible and scalable synthetic test instrumentation architecture in the industry. State-of-the-art hardware and software architectures, leveraging open industry standards, allow Aeroflex to configure CP products to match customer needs while providing them with unmatched upgrade and obsolescence protection in the future. For example, designed-in compatibility with the Software Communications Architecture (SCA) allows Aeroflex to partner with Joint Tactical Radio System (JTRS) manufacturers to rapidly provide cost effective and performance matched test capability. And the ability to add options like data bus analysis, GPS and many other functions allows the 7200 CATS to test multiple subsystems and provide a complete vehicle or platform test solution.

P  
r  
e  
l  
i  
m  
i  
n  
a  
r  
y

For the very latest specifications visit [www.aeroflex.com](http://www.aeroflex.com)



*State-of-the-art touch screen user interface*

### A Comprehensive Test Solution

The 7200 comprises a complete test system in one small and portable package and includes a “Micro ATE” option with built-in signal switching capabilities. Standard instrumentation functions include:

RF Signal Generator	Tracking Generator
RF Measurement Receiver	Power Meter
Spectrum Analyzer	Digital Oscilloscope
Audio Generator	Digital Multimeter
Audio Analyzer	Distortion Meter
SINAD Meter	Frequency Counter
Bit Error Rate (BER) Meter	Frequency Reference
Signal Switching Matrix (Micro ATE Configuration)	

The 7200 platform also includes many options for custom configurations not normally found in Commercial-Off-The-Shelf (COTS) test instrumentation. Some examples of the options include:

Digital I/O	Analog I/O
Power Supplies and Loads	Synchro/Resolver
Data Bus Analyzer	GPS
S-parameter Test Set	Removable Storage

### Industry Standards

Unless they add significant value for our customers, we don't like proprietary components and interfaces any more than you do. That is why our 7000 Series leverages a tremendous number of Open Industry Standards. Some key examples among them are:

PXImc	MicroTCA	PCIe
sRIO	LXI (w/1588)	USB
Bonjour	CORBA	XML
Ethernet	Linux	IDL
UML	Python	OpenGL

All standards were selected for their widespread use, projected longevity, and of course for their performance and utility. By focusing on available standards, Aeroflex can choose the right components from our own library or from many other suppliers to provide 7200 users with the best value test solution in the industry.



*LXI Class B compliant with IEEE 1588 synchronization of better than 50 ns over Ethernet*

### Future-Proof Platform

Aeroflex incorporated the commercial and military test requirements of today and the future when developing the 7000 Series including advanced communications systems like JTRS and other SCA compliant systems, along with emerging commercial standards for 4th generation wireless communications. The resulting products provide Aeroflex customers with the most future-proof test solutions available. Contact your Aeroflex sales representative for standard configuration and option availability and to configure a solution to meet your testing needs.

### EXPORT CONTROL:

This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States.

#### FINLAND

Tel: [+358] (9) 2709 5541  
Fax: [+358] (9) 804 2441

#### FRANCE

Tel: [+33] 1 60 79 96 00  
Fax: [+33] 1 60 77 69 22

#### GERMANY

Tel: [+49] 8131 2926-0  
Fax: [+49] 8131 2926-130

#### INDIA

Tel: [+91] 80 5115 4501  
Fax: [+91] 80 5115 4502

#### KOREA

Tel: [+82] (2) 3424 2719  
Fax: [+82] (2) 3424 8620

#### SCANDINAVIA

Tel: [+45] 9614 0045  
Fax: [+45] 9614 0047

#### SPAIN

Tel: [+34] (91) 640 11 34  
Fax: [+34] (91) 640 06 40

#### UK Cambridge

Tel: [+44] (0) 1763 262277  
Fax: [+44] (0) 1763 285353

#### UK Stevenage

Tel: [+44] (0) 1438 742200  
Fax: [+44] (0) 1438 727601  
Freephone: 0800 282388

#### USA Wichita

Tel: [+1] (316) 522 4981  
Fax: [+1] (316) 522 1360  
Toll Free: 800 835 2352

#### USA Kansas City

Tel: [+1] (913) 693 1700  
Fax: [+1] (913) 324 3103



As we are always seeking to improve our products, the information in this document gives only a general indication of the product capacity, performance and suitability, none of which shall form part of any contract. We reserve the right to make design changes without notice. All trademarks are acknowledged. Parent company Aeroflex, Inc. ©Aeroflex 2009.

[www.aeroflex.com](http://www.aeroflex.com)  
[info-test@eroflex.com](mailto:info-test@eroflex.com)



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