

Aerospace and Defense ATE Systems Team

An Agilent Signal Networks Division organization

Specialized consultant engineers delivering integrated, customized and comprehensive test and measurement solutions

More than ever, aerospace and defense companies must reduce costs, accelerate test deployment, and reduce risks, all while simultaneously maintaining a high level of mission readiness. Particularly with complex measurement needs, one-size-fits-all products and legacy processes can easily fall short.

Turn to a specialized team of experts—an extension of your team—to translate your unique requirements into a high-performance, fully integrated, and repeatable test and measurement solution.



Introducing ADATEST

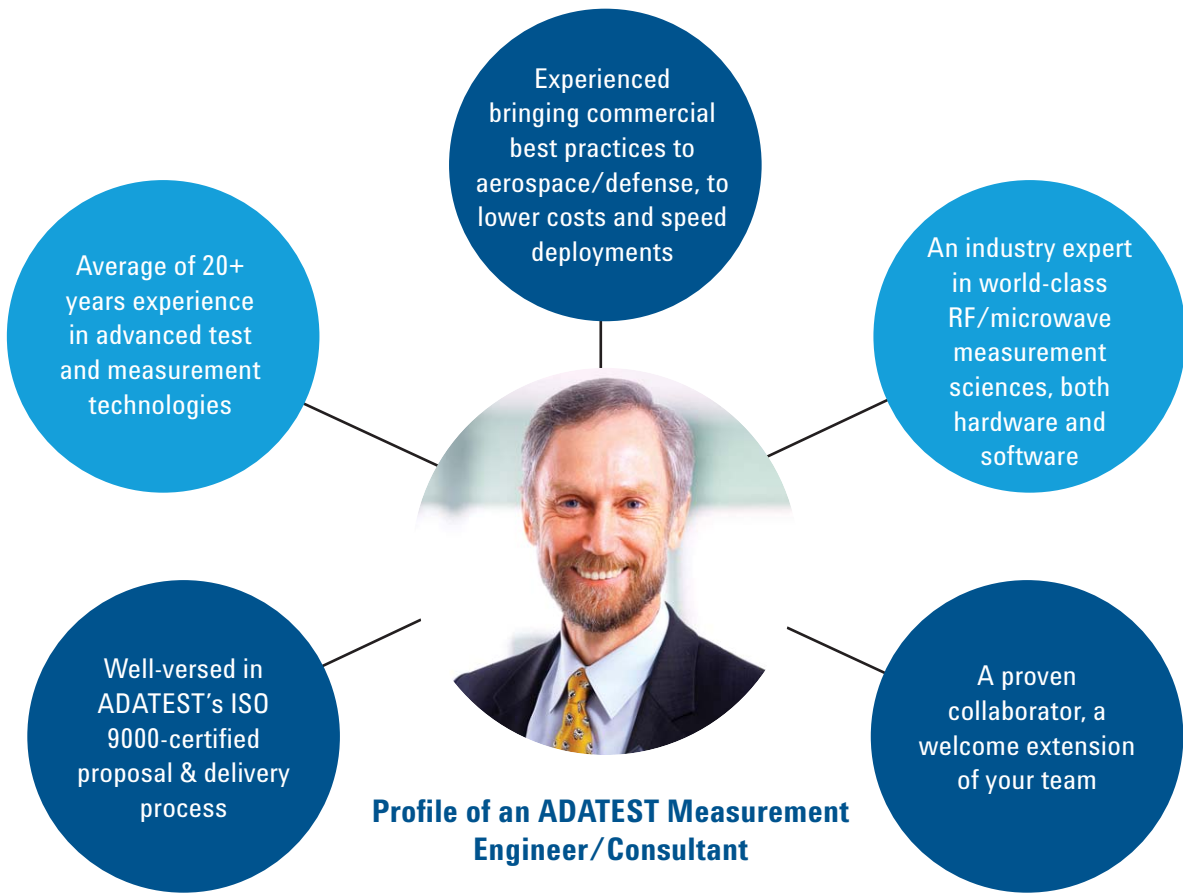
Agilent's Aerospace and Defense ATE Systems Team (ADATEST), a specialized group of measurement experts and consultant engineers, applies comprehensive analysis and problem-solving techniques to complex measurement challenges that cannot be addressed with off-the-shelf solutions or legacy measurement techniques. Leveraging the expertise of the world's leading measurement company, ADATEST's custom-tailored solutions deliver better test performance, lower costs, and faster deployment speed benefits that may be unachievable in-house or through some third-party systems integrators.

When to consider ADATEST

- When your organization lacks the available time or capabilities to meet new measurement requirements
- When existing measurement capabilities do not meet new or changing quality and performance requirements
- When you must reduce operational and program costs, and shorten schedules
- When myopic efforts (one device type, one hardware vendor, one test lifecycle stage, one-size-fits-all) prevent comprehensively understanding and improving test and measurement
- When you cannot wait months to move from concept to solution



Agilent Technologies



What ADATEST can achieve for you

Every situation is unique, so every ADATEST solution is customized. Across the breadth of ADATEST projects, typical results emerge

- Measuring parameters that previously were difficult or impossible to gauge
- Applying state-of-the-art measurement technologies, thereby bringing new awareness and knowledge to in-house test organizations
- Moving test solutions into production faster than expected, e.g. weeks instead of months
- Achieving unprecedented reductions in engineering and test development costs
- Realizing new efficiencies by upgrading outmoded and costly-to-maintain legacy systems

Case in point

A world-recognized leader in aerospace and defense engaged ADATEST to apply Agilent practices and capabilities to their greatest testing challenges.

ADATEST tackled head-on the client's biggest challenge, the insufficient or (in some instances) nonexistent integration of three parts of their program lifecycle

- Development test strategy
- Production test strategy
- Support

Among other shortcomings, by failing to practice "design for test," the firm had been locking in 80-90% of costs for the remainder of the lifecycle.

ADATEST bridged the gaps, institutionalizing Design for Test, fostering new collaboration between Development and Manufacturing, and implementing a common test strategy. As a result, the company realized profound business and program performance gains.



The ADATEST comprehensive process

Complexities understood, inefficiencies exposed, opportunities seized

Based on a sound understanding of measurement sciences, ADATEST begins with a comprehensive examination, to understand

- What needs to be measured?
- What broader measurement problems must be solved?
- What results must be achieved?
- What interdependencies obstruct those results?

ADATEST examines all elements influencing the lifecycle, such as

- The present business situation and funding profile
- How test requirements must evolve over time
- Need for compatibility with existing/common designs and Test Program Software
- Cross-organizational dynamics (distributed teams, multiple business objectives)
- Design verification and repair (in addition to Development, LRIP & Volume)
- Realities for building, purchasing, verifying, and deploying the solution
- How well the test solution meets supportability goals
- And much more

ADATEST studies the entire test needs lifecycle to develop a solution that meets your specific requirements



Services and solutions, a partial list

Agilent services span the test system lifecycle

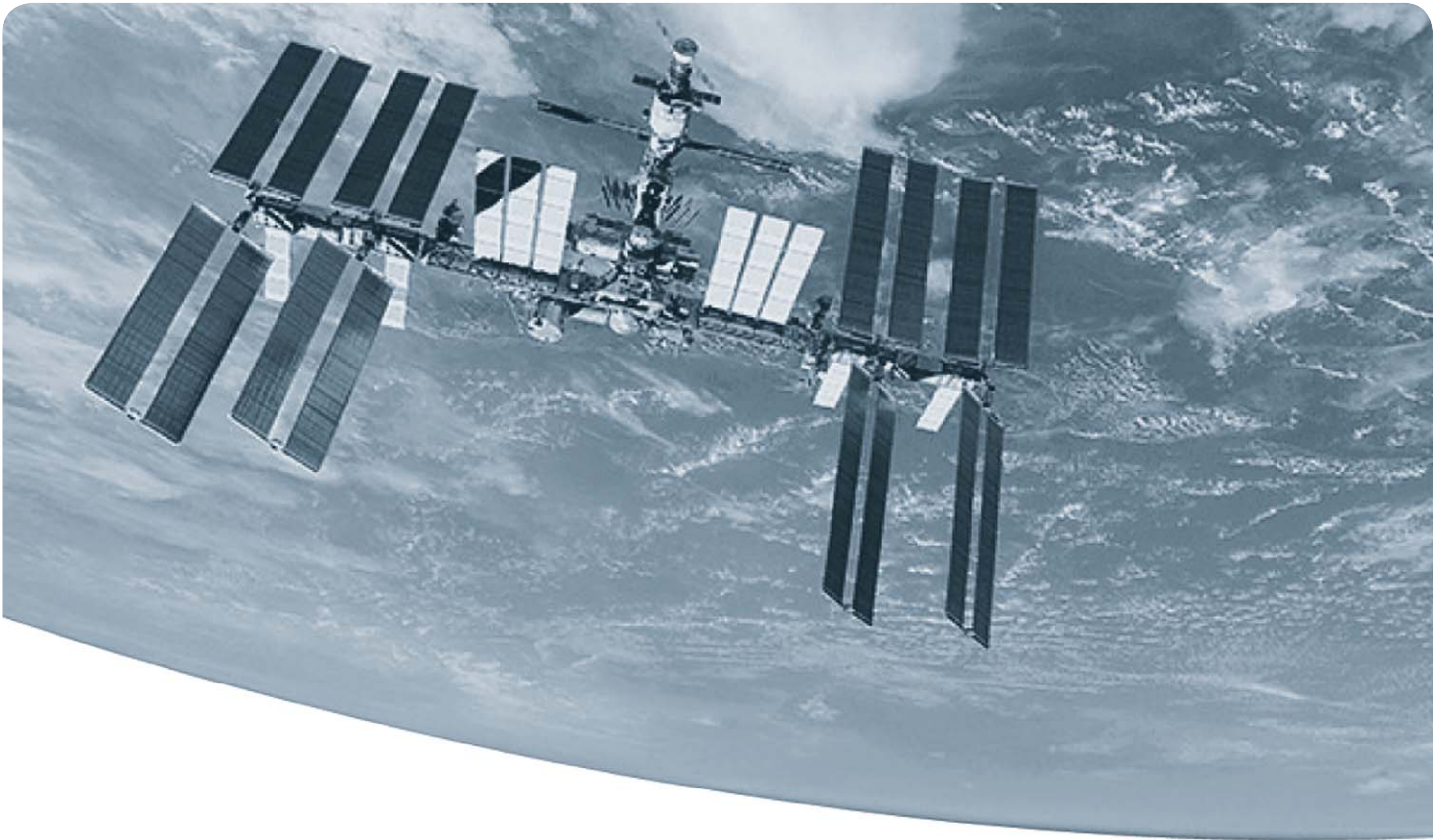
- Measurement analysis & consultation
- Test processes & productivity tools
- ATE solution design & development services
- ATE system integration services
- Hardware & software building blocks
- Installation & support services

ADATEST combines Agilent products and services, third-party content, and custom design and integration.

- Calibration systems
- Multichannel RF test systems
- Advanced RF test systems
- Switch matrices
- Two-channel coherent signal simulator
- Fully-integrated factory automation and shop floor control
- A wide variety of custom ATE

These are only examples; ADATEST can build almost any test system required by the aerospace/defense industry.

What's your toughest test challenge?



Capitalize on our focus and learning, to-date and yet-to-come

Agilent leads the industry in the development of new and advanced measurement methodologies and techniques. ADATEST brings this leadership experience to each customer engagement.

Agilent has served the aerospace and defense industry for 70 years, including all of the aerospace and defense prime contractors and all military branches of the Department of Defense.

Building on this track record, Agilent also brings to aerospace and defense our extensive experience gained from high-volume manufacturing test across the vast commercial products industry.

A test case for streamlined test. When ADATEST applied our proven techniques to Agilent factory operations, the results were dramatic

- 40% greater inventory turns
- 30% greater manufacturing throughput
- 50% fewer defects
- 80% fewer dollars spent on test labor

Agilent has increased return on invested capital over 100%. ADATEST will bring the lessons from our own progress to help solve your greatest test challenges.

Learn more

For more information, visit
www.agilent.com/find/adsystems

