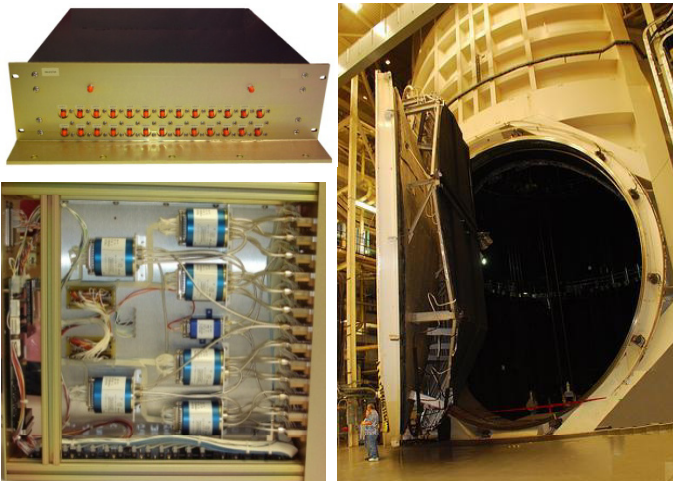




# Satellite Payload & Component Test



**The ST5000 Series with TVAC options can provide measurement continuity when testing both in and out of thermal vacuum chambers.**

## Welcome to SenarioTek

SenarioTek satellite payload and component test products reduce the complexity and reliability challenges many satellite manufacturers face in today's highly competitive markets. By leveraging the deep technical knowledge of our engineers and program management, we commit to delivering affordable and reliable products when you need them. In addition, our ST5000 series can be used inside a thermal vacuum chamber - why not have solutions that allow you the best test capability where you need it. No matter how complex your situation, SenarioTek has the expertise to help meet your needs.

## RF/Microwave Engineering Expertise

Our engineers design the most advanced and reliable RF, Microwave, Millimeter-wave, and optical measurement test solutions on the market. Our ability to solve your test needs is unmatched in the industry because of our experience and flexibility. SenarioTek engineers function as an extension of your engineering team. We start with only your specifications to design, build and deliver a result that works for you at a price tag that you can justify. We generate Genesys simulations to verify performance with you before our product goes into manufacturing. After designing over 1000 microwave switch matrices and sub-systems, our engineers know what it takes to provide the best solution at the best value. Every effort is taken to keep costs down, but not at the expense of reliability, or overall value.

## Offering Products for:

- Payload Test Systems
- Space Qualified Component Test
- Ground Station Test Systems
- Antenna Test
- Switch matrices and sub-systems
- Signal conditioning
- Phase-matching (radar, antennas..)
- Frequency translation, up/down converters
- Amplifier testing
- Calibration fixtures/modules
- Remote calibration correction (e-trak™)
- Millimeter wave systems
- Mixed impedance sub-systems

## Thermal Vacuum Switch Matrices:

- Qualified RF TVAC compatible switches and switch matrices for inside thermal chambers
- Eliminate most RF and DC cable penetrations through the TVAC Chamber
- Daisy chain unlimited number of switch matrices inside the chamber
- Same test solution in & out of chamber
- DC to 40 GHz
- Operation from -40° C to +75° C
- 5x10-6 Torr vacuum

## Easy Control Via Ethernet:

- Ethernet controller designed specifically for RF/ microwave components
- Switch counter
- Position read back
- Switch rules
- Logical switch control
- SCPI over LAN
- Front panel control/ LED indicators

## When and What you Need:

- Guaranteed delivery, 12 weeks typical
- 3 Year standard warranty (5 year opt.)
- Complete documentation: electrical, mechanical, parts, test, S2P files
- Vendor qualified – Boeing, Northrop Grumman, BAE
- 100% designed and manufactured in the U.S.A. by U.S. Citizens
- Women Owned Small Business (WOSB)
- DOD Protégé

*"We have finally found a company with switch expertise that we can work with."*

*Senior Engineer, Boeing Satellite Systems*

### **Program Management Key to On Time Deliveries**

Commitment to schedule has been a key element to SenarioTek's success. Our Program Managers develop project timelines and align milestone checkpoints based on your project schedule. An initial project "risk assessment" is reviewed at our customer kickoff meeting and risk mitigation plans are generated for all "at risk" items. Project status is tracked via Microsoft Project and reviewed at regularly scheduled check point meetings between SenarioTek and our customers. Our success at meeting our schedule commitments is what allows SenarioTek to guarantee your delivery dates.

### **Our Commitment to Quality and Reliability**

Test equipment problems can be very time consuming and expensive. SenarioTek's design philosophy is to select components and designs that provide the level of performance and reliability required over the product's service life at minimum cost, but no less. We do not design our own RF and microwave hardware, instead we use our design knowledge to qualify and select components produced by a wide variety of vendors. This gives SenarioTek the ability to use an unbiased appraisal of the products we use and optimize the value to our customers. We test 100% of all incoming parts and all products are tested to a mutually agreed to Acceptance Test Procedure (ATP).

High density designs require careful attention to detail to allow for both easy assembly and serviceability. SenarioTek manufactures its proprietary chassis which is designed exclusively for high frequency test equipment, incorporates features that ensure very high EMC integrity and optimized for accessibility.

At SenarioTek we pride ourselves in reducing your concerns. We are so serious about our quality that we offer a 3 year standard warranty at no cost.

### **Contact Us About Your Measurement Challenges:**

**SenarioTek**  
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Suite 150  
Santa Rosa, CA 95403  
Phone: (707) 544-2770  
Fax: (866) 409-7626  
sales@senariotek.com



**Our proprietary chassis is designed to offer the best RF performance, long term supportability and serviceability.**



**Whether you need very complex switch matrices or high power signal conditioning SenarioTek offers design solutions.**

**SenarioTek can also integrate our products, as well as your new and/or existing test equipment, into completely configured system solutions.**

