



***Giga-tronics***  
ASCOR



TEST IS CRITICAL





LESS COMMUNICATIONS ADVANC  
FROM SIMPLE TO MISSION CRITIC  
MILITARY COMMUNICATIONS AND  
TIONS ADVANCED AVIONICS MED





# YOUR TEST NEEDS ARE UNIQUE

Combining the perspective of an industry-leading RF instrument and microwave component manufacturer with decades of switching experience under the ASCOR brand

**GIGA-TRONICS CAN PROVIDE A SOLUTION THAT OPTIMIZES THE PERFORMANCE OF YOUR ENTIRE TEST SYSTEM.**

COMMUNICATIONS AND RADAR SYSTEMS  
DEFENSE AVIONICS MEDICAL DEVICES  
INDUSTRIAL APPLICATIONS SPACE SYSTEMS  
RADAR WIRELESS COMMUNICATIONS  
MEDICAL DEVICES SPACE SYSTEMS

RF Interface Units, Signal Switching and System Integration for ATE

## **BENEFIT YOUR BOTTOM LINE**

**FOR OVER 30 YEARS, GIGA-TRONICS ASCOR HAS EXCELLED AS AN INDUSTRY LEADER IN THE AUTOMATED TEST AND MEASUREMENT COMMUNITY.**

Whether you need to bring products to market faster or make your operations more efficient, we take the time to understand your business objectives and then recommend the best economic and technical solution for the application.

## **GET THE RIGHT SOLUTION FOR YOU**

Giga-tronics ASCOR is not just in the business of providing “off-the-shelf” solutions. We are very experienced in tailoring an existing design or creating a new one to meet your requirements. We provide solutions for all types of use, from simple signal routing applications to mission critical programs.

## **FROM SIMPLE TO MISSION CRITICAL APPLICATIONS**

We offer a full spectrum of experience with a long history of success in Space Systems, Military Communications and Radar, Wireless Communications, Advanced Avionics, Medical Devices, and more.

**B**

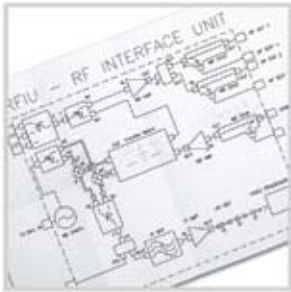


# BENEFIT BOTTOM LINE

Giga-tronics is different from typical switching providers. Having 30 years of experience in microwave test equipment and microwave components, Giga-tronics is uniquely positioned to apply a total system perspective to ensure an optimally performing switching solution.

# GIGA-TRONICS WILL DESIGN, BUILD, DOCUMENT, AND TEST AN RFIU

DESIGN



DOCUMENT



BUILD



TEST



## AN RF INTERFACE UNIT IS CENTRAL TO THE ATE SYSTEM

- + Signal conditioning (amplifiers, attenuators, circulators, filters, mixers...)
- + Frequency translation, up/down conversion
- + Phase-matching & delay-matching (for radar, antennas, high speed serial/signal integrity...)



# LET US **TAILOR A SOLUTION** FOR YOU THAT MEETS THE **KEY REQUIREMENTS** OF YOUR SPECIFIC APPLICATION.

Whether it's a focus on [superior signal integrity](#), [extended reliability](#), or [global service-ability](#), Giga-tronics is a proven provider of products and services used in applications ranging from mission critical military/aerospace test to high volume consumer device manufacturing.







“The RFIU is probably the most overlooked and undervalued part of automated test system design. Even with the most sophisticated test instrumentation, the performance of a test system is only as good as the switching system routing the signals.”

—Jeffrey T. Lum  
CTO



# WE PULL FROM THE BEST TECHNOLOGY IN THE INDUSTRY

**TO PROVIDE A STANDARD, TAILORED OR NEW SOLUTION  
THAT BEST MEETS YOUR NEEDS.**

- + Wide signal bandwidth and frequency ranges: DC to 50 GHz
- + Broad range of switch components SPDT-SP12T, Transfer & Star
- + Low-level through high-power signal handling capability
- + Integration of a wide variety of signal conditioning components
- + Hundreds of existing designs on multiple platforms: VXI, PXI, Ethernet, GPIB

**OFTEN FROM PAPER TO PRODUCT IN AS LITTLE AS 4 WEEKS**



# RETHINK

A person wearing a dark suit jacket is shown from the chest down, holding a glowing yellow lightbulb in their cupped hands. The background is dark, making the lightbulb stand out as a central point of illumination.

DO YOU HAVE THE EXPERTISE NECESSARY? DOES THE SOLUTION OVERCOME POTENTIAL COMPLICATIONS? CAN YOU IMPLEMENT IN TIME AND WITHIN BUDGET? WILL THE SYSTEM MAINTAIN OR DUPLICATE? CAN YOU BENEFIT FROM THE SOLUTION? IS THE PRIMARY FOCUS ON TESTING SOLUTIONS? ARE WE

# RETHINK DESIGNING YOUR OWN SWITCHING SOLUTIONS

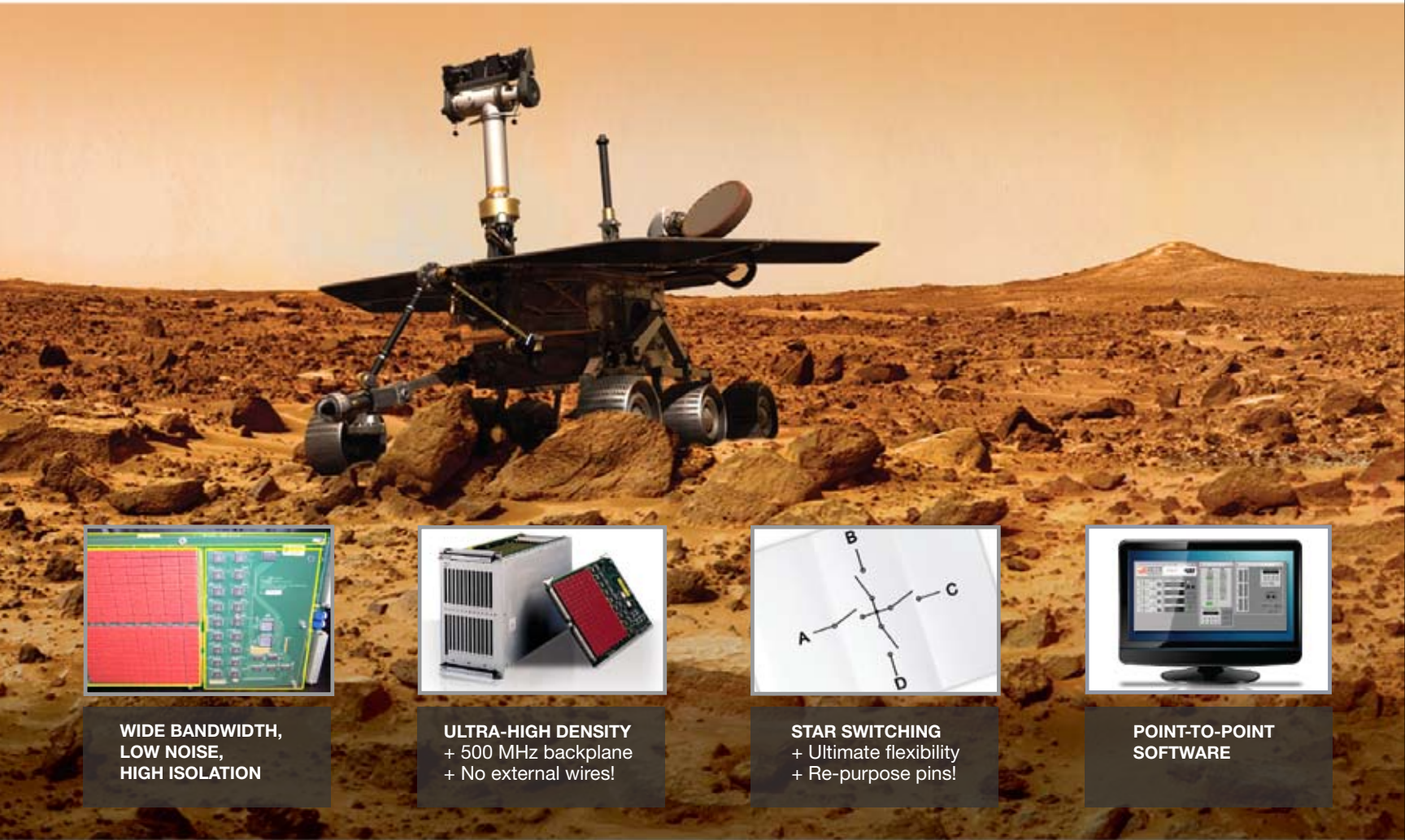
Every business decision can be boiled down to one simple factor, ROI. Business is about profit. When making “make or buy” decisions, ask the question:

**DOES YOUR TEST SYSTEM DRIVE REVENUE OR PROFIT OR WOULD RESOURCES BE BETTER SPENT ELSEWHERE?**

More and more companies are electing to stick to their core competencies.

IR BREADTH OF KNOWLEDGE ENOUGH TO O  
OU COUNT ON THE PROJECT GETTING DONE  
TEM BE SUFFICIENTLY DOCUMENTED TO MAI  
M THE EXPERIENCE OF A COMPANY WHOSE  
E SUFFICIENTLY STAFFED FOR THIS PROJECT

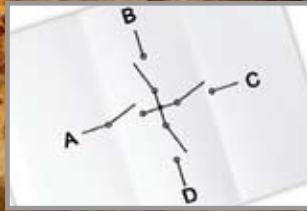




**WIDE BANDWIDTH,  
LOW NOISE,  
HIGH ISOLATION**



**ULTRA-HIGH DENSITY**  
+ 500 MHz backplane  
+ No external wires!



**STAR SWITCHING**  
+ Ultimate flexibility  
+ Re-purpose pins!



**POINT-TO-POINT  
SOFTWARE**

## **GIGA-TRONICS PROVIDES SUPERIOR PERFORMANCE**

+ Wide breadth of capabilities

+ Large variety of platforms

+ From cards to systems

# WHY GIGA-TRONICS?

- + Proven track record with decades of experience
- + Breadth of offering
- + Superior performance
- + Customer partnership to tailor or design new solutions
- + AS9100

## GIGA-TRONICS SUPPORTS MARS ROVER

Giga-tronics ASCOR's understanding of switching systems, and ability to quickly process special configurations, resulted in core changes to the system design and a critical test role in the Delta Rocket Program which delivered the Mars Rover.



# WE SEE THE WHOLE PICTURE

## RF & MICROWAVE TEST INSTRUMENTATION

Giga-tronics designs and manufactures best-in-class high-performance microwave signal generators, microwave power amplifiers, power meters and power sensors.

## MICROWAVE SYNTHESIZER MODULES & SUBSYSTEMS

Giga-tronics' core technologies in microwave signal generation and filtering have enabled us to design unique integrated electronic assemblies including microwave synthesizer modules, integrated microwave front ends, ultra-low phase noise YIG oscillators and fast-tuning YIG filters.

## SERVICE & SUPPORT

Giga-tronics has ISO-9001:2008 with AS9100 certification. Support services include application engineering assistance to help your team with integration and next-generation product and process technology.

## ONLINE RESOURCES

Visit us at [www.gigatronics.com](http://www.gigatronics.com) for technical support and product information.

Technical Assistance  
[applications@gigatronics.com](mailto:applications@gigatronics.com)

Quotes, Order Assistance  
or Demo Requests  
[inquiries@gigatronics.com](mailto:inquiries@gigatronics.com)

Contact us at  
1-800-726-4442 *USA*  
+1-925-328-4650 *International*







ARE WE SUFFICIENTLY STARTED FOR THIS P  
RF & MICROWAVE TEST INSTRUMENTATION D  
TO MICROWAVE SYNTHESIZER MODULES & S  
SUBSYSTEMS WILL THE SYSTEM BE SUFFICI  
CATE? CAN YOU BENEFIT FROM THE EXPERIE  
IS TEST SOLUTIONS? SERVICE & SUPPORT ST



Whether your needs lie in test and measurement instrumentation, signal switching solutions or microwave subassemblies

# GIGA-TRONICS ASCOR PROVIDES SWITCHING SOLUTIONS TO FIT YOUR NEEDS. CONTACT US TODAY

Why Struggle? When you think of RFIs and Signal Switching for ATE, think Giga-tronics ASCOR.

Visit us at [www.gigatronics.com](http://www.gigatronics.com) for **technical support and product information.**

E-mail [applications@gigatronics.com](mailto:applications@gigatronics.com) for **technical assistance.**

E-mail [inquiries@gigatronics.com](mailto:inquiries@gigatronics.com) for **quotes, order assistance or demo requests.**

Call toll 1-800-726-4442 (USA) or +1-925-328-4650 (International)

ARY COMMUNICATIONS AND RADAR WIRE  
CATIONS ADVANCED AVIONICS MEDICAL E  
SIMPLE TO MISSION CRITICAL APPLICATIO  
TEMS MILITARY COMMUNICATIONS AND R  
COMMUNICATIONS ADVANCED AVIONICS I  
SPACE SYSTEMS MILITARY COMMUNICAT



Visit us at [www.gigatronics.com](http://www.gigatronics.com) for technical support and product information.

E-mail [applications@gigatronics.com](mailto:applications@gigatronics.com) for technical assistance.

E-mail [inquiries@gigatronics.com](mailto:inquiries@gigatronics.com) for quotes, order assistance or demo requests.

1-800-726-4442 (USA) +1-925-328-4650 (International)

© Copyright 2010 Giga-tronics

