MAC-PANEL
*Interconnect Solutions & Service*

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www.macpanel.com



# Company Overview

## High Performance Connectors for the Automated Test Industry



# About us



## What We Do

MAC Panel specializes in bridging Automated Test Equipment (ATE) with the Device Under Test (DUT), providing innovative connectivity solutions across sectors like government defense, automotive, aerospace, and medical industries. Our expertise in advanced mass interconnect systems is backed by a commitment to quality, customer service, and technological innovation. We offer modular, scalable products designed for the dynamic needs of the ATE industry, ensuring reliable connectivity for every critical testing requirement.

For more information about our comprehensive range of solutions, visit MAC Panel's official website at www.macpanel.com.

# Our Approach

## Your Partner in ATE Interconnect

At MAC Panel, our commitment to excellence goes beyond just delivering products; it's about building lasting partnerships with our customers. We take a collaborative 'partner approach' to understand your unique needs and challenges. Through consultative discussions, careful planning, and meticulous attention to detail, we ensure that you receive not just a product but a comprehensive solution that perfectly aligns with your goals.

# Key Capabilities

## Applications Support

"At MAC Panel, our dedicated applications support team is here to provide expert guidance and assistance. Whether you have questions, need technical expertise, or require customized solutions, our team is committed to delivering prompt and precise support.

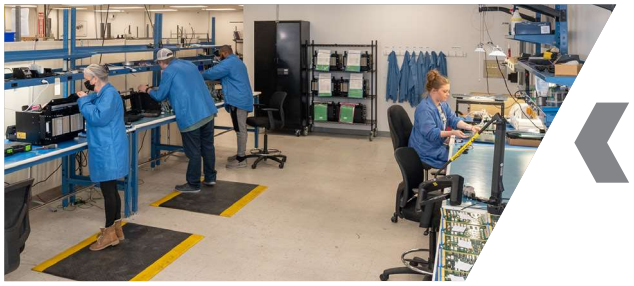
## Engineering

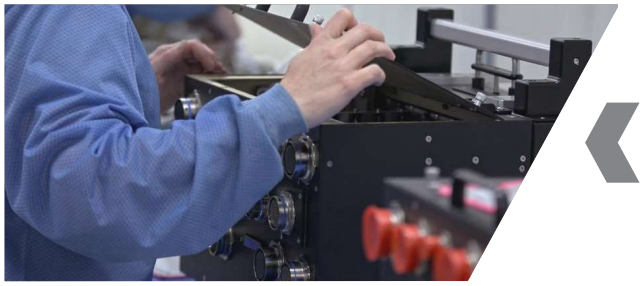
Our dedicated engineering team is here to provide expert guidance and assistance in ATE interconnect solutions. Whether you have complex design challenges, need technical expertise, or require customized solutions, our team is committed to delivering prompt and precise support.

## Manufacturing

Our state-of-the-art manufacturing department encompasses machining, sheet metal fabrication, wiring, and assembly services. Our skilled and experienced team is committed to delivering precision and quality at every stage of your project.

# Our Services





**Explore MAC Panel's services and learn more about how we can assist you. Scan our QR code for additional information on our ATE interconnect solutions and services.**

or visit us @ https://www.macpanel.com/





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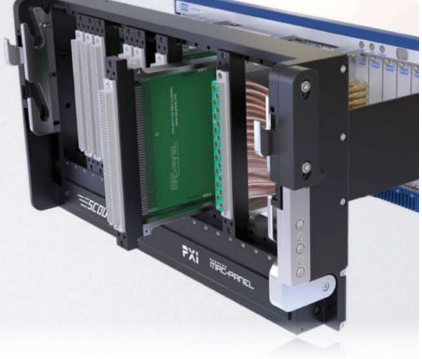
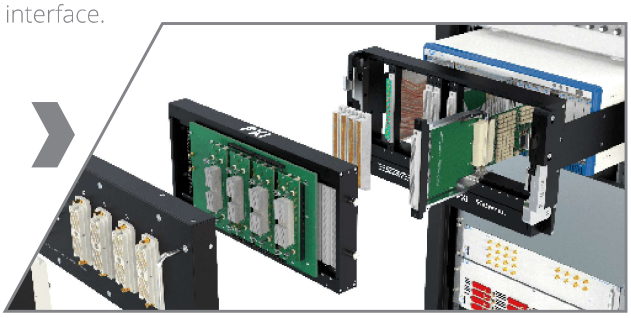


# Products

At MAC Panel, we offer a diverse range of high-quality and innovative ATE interconnect products designed to meet the unique needs of our customers. From connectors and cables to custom solutions and advanced mass interconnect systems, our products are engineered for performance, reliability, and seamless integration.

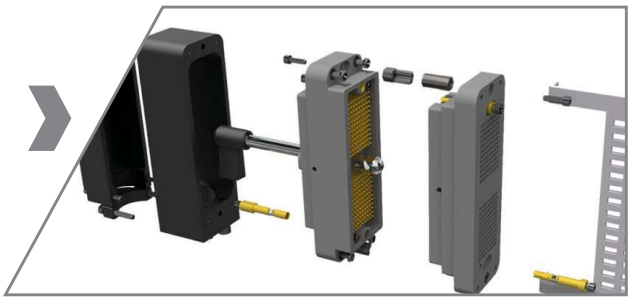
## SCOUT

SCOUT is an innovative pull-through Mass Interconnect solution specifically designed to deliver the full performance potential of the PXI platform at the ATE interface.



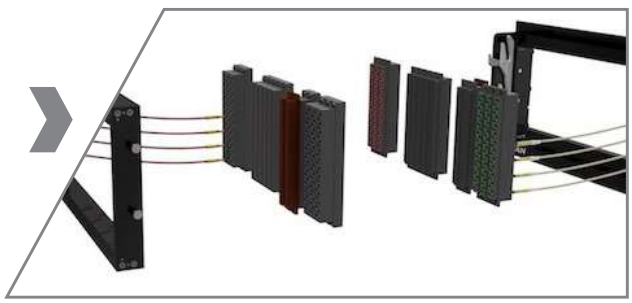
## APEX

APEX connectors are designed to provide optimum performance in small I/O test and measurement applications.



## TITAN

TITAN sets the standard for Mass Interconnect performance, configuration modularity and long term reliability.



## All Products

At MAC Panel, we offer a wide range of ATE interconnect solutions, including 150 amp contacts for reliable power distribution, high-speed connectors up to 10 GB, and advanced Fiber Optic solutions. Scan our QR code to explore all our products.

# Product in Detail

APEX connectors are designed to provide optimum performance in small I/O test and measurement applications. APEX connector modules are unmatched for strength, stability and performance when compared to the typical molded plastic alternatives. APEX aluminum back shells are designed to truly withstand the rigors of real-life applications. When performance and reliability are your primary metrics, APEX is the right choice.



## Signal Only

- Uses 1mm signal contacts
- Comes in 5 different configuration densities: 96, 156, 216, 260, 360



## Hybrid

- Uses 1mm signal contacts, micro/mini power, and micro/mini coax
- Two hybrid modules available. 80 signal 20 coax/power mix and 220 signal 20 coax/power mix



## High Power

- Uses High Power Contacts up to 150amp
- One configuration available: 8 positions

## Learn more by scanning the code

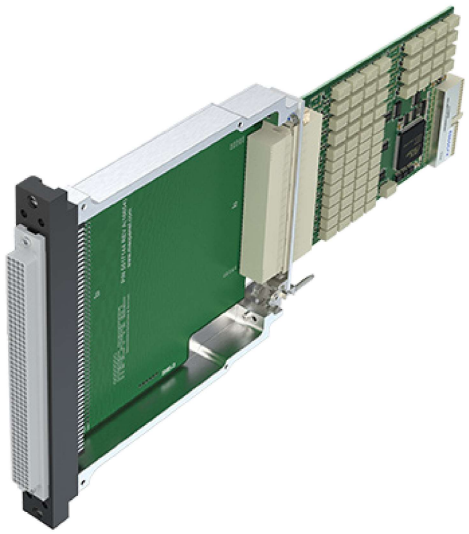


# Product in Detail SCOUT

SCOUT is an innovative pull-through Mass Interconnect solution specifically designed to deliver the full performance potential of the PXI platform at the ATE interface. SCOUT, featuring DAK (Direct Access Kit) connectivity, enables system designers to limit or eliminate traditional instrument cables by replacing them with DAK connection modules that utilise PCB, flex-circuit or short wire connections.

## Featuring DAKs

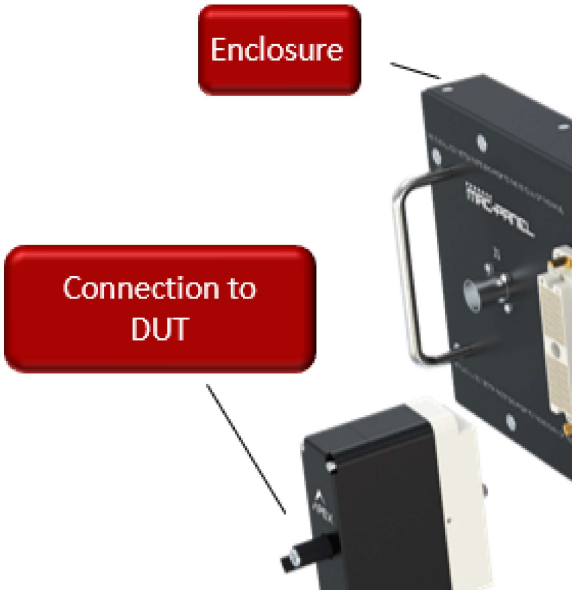
Direct Access Kits, commonly known as DAKs, are ingeniously crafted to facilitate a seamless connection between Automated Test Equipment (ATE) and the device under test at the interface point. Primarily utilizing printed circuit boards (PCBs), these kits are specifically designed to eliminate the need for cables at the interface. This strategic removal of wires significantly enhances the overall system performance. It also notably increases stability within the interconnect and substantially improves signal quality. By streamlining the connection process, DAKs effectively address and resolve the common issues typically associated with wired connections, leading to a more efficient and reliable testing environment.



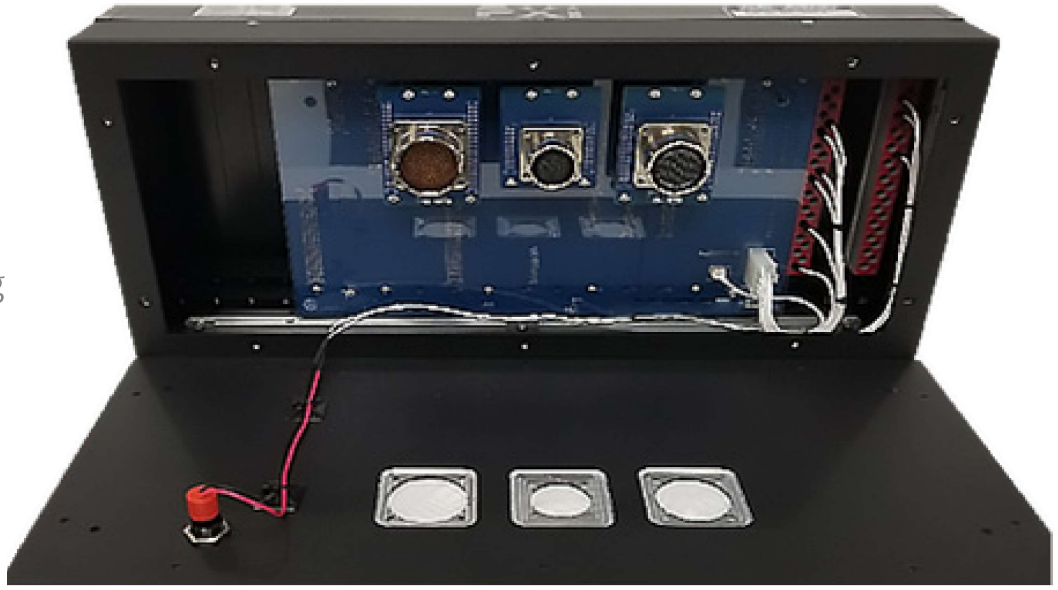
Anatomy of Advanced Mass Inter

SCOUT

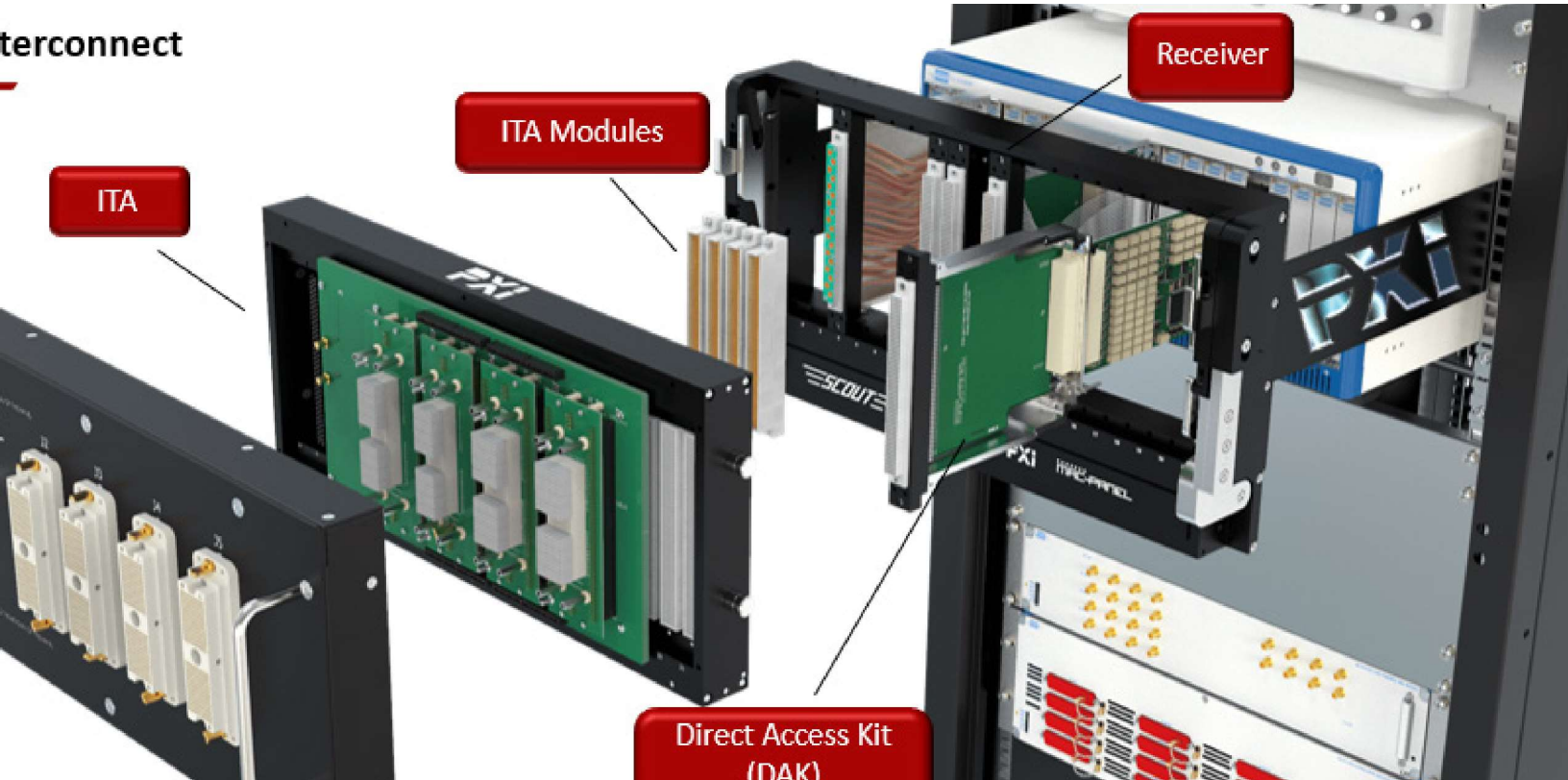
## Learn more by scanning the code



## Interchangeable Test Adapters: Utilizing PCBs



An Interchangeable Test Adapter (ITA) is a vital component in automated test equipment systems, serving as the interface between the test equipment and the device under test. Integrating Printed Circuit Boards (PCBs) within ITAs offers significant benefits. PCBs enable the exact replication of ITAs for consistent performance across multiple units, ensure enhanced signal quality by mitigating environmental disturbances such as vibrations, and provide a high degree of repeatability and predictability in results. This integration is essential in applications where accuracy, stability, and reliability are critical, making PCBs a preferred choice for maintaining performance standards in various testing environments.



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## Always Innovating

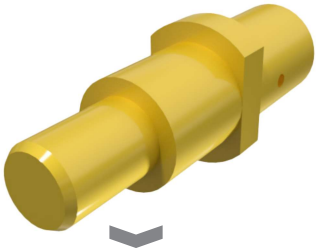




**Signal Contacts**
5 amp
400% Stronger than industry standard
.6mm signal contacts



**Coax Contacts**
Up to 26GHz



**Power Contacts**
10 to 150 amps
per contact

**High Speed**
Ethernet is 10GBaseT @ 10Gb/sec
USB 3.1 Gen 1, USB-A @ 5Gb/sec

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