

Unlock the Power of Test System Architect

'Ease the Pain of Signal Path Design from Concept to Deployment'

Transform Your **Test System Development**

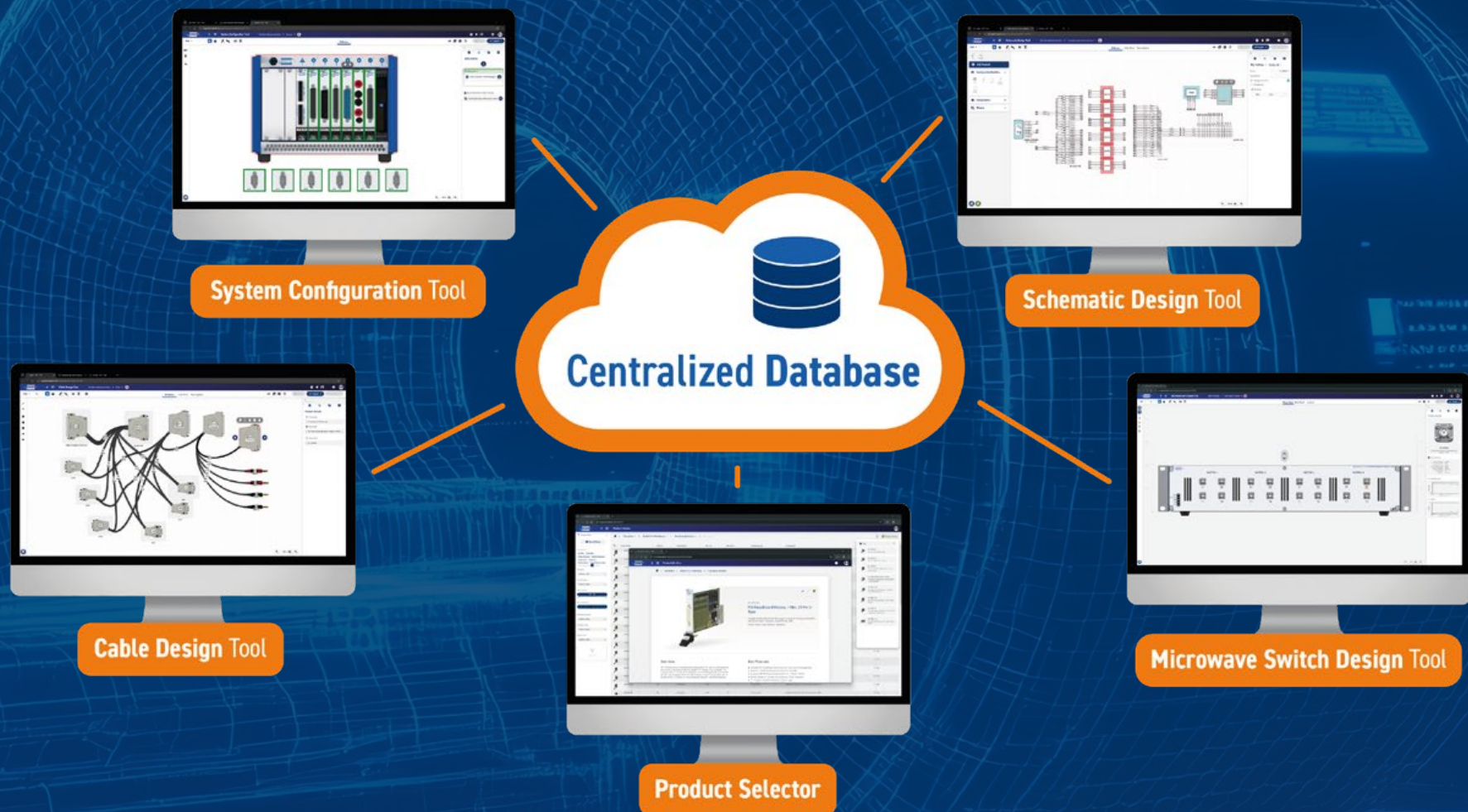
Automated test system development is often slowed by disconnected tools, informal knowledge sharing, and documentation that quickly becomes outdated. The hidden cost isn't just rework—it's lost engineering time, unclear ownership of design intent, and integration issues that surface late in the process.

Test System Architect challenges this approach by bringing system definition, signal routing, cable assemblies, and product selection together in a single, cloud-based environment built on a centralized data model. Engineers work from a shared, visual representation of the complete test system, ensuring that intent, interconnections, and components remain aligned from concept through build.

The result is improved collaboration, always-current documentation, and clearer system visibility across engineering, manufacturing, and procurement. By reducing manual effort and eliminating ambiguity, the free-to-use Test System Architect enables faster movement from concept to build—while avoiding the late surprises that traditionally slow test system delivery.



An **Integrated** Set of Design Tools Built on a **Centralized** Database



Enhance **Collaboration** and **Project Management**

Direct Engineering Communication

Share designs and collaborate directly with colleagues and Pickering engineers through integrated messaging and project management tools for technical guidance and design optimization.

Secure Cloud Storage

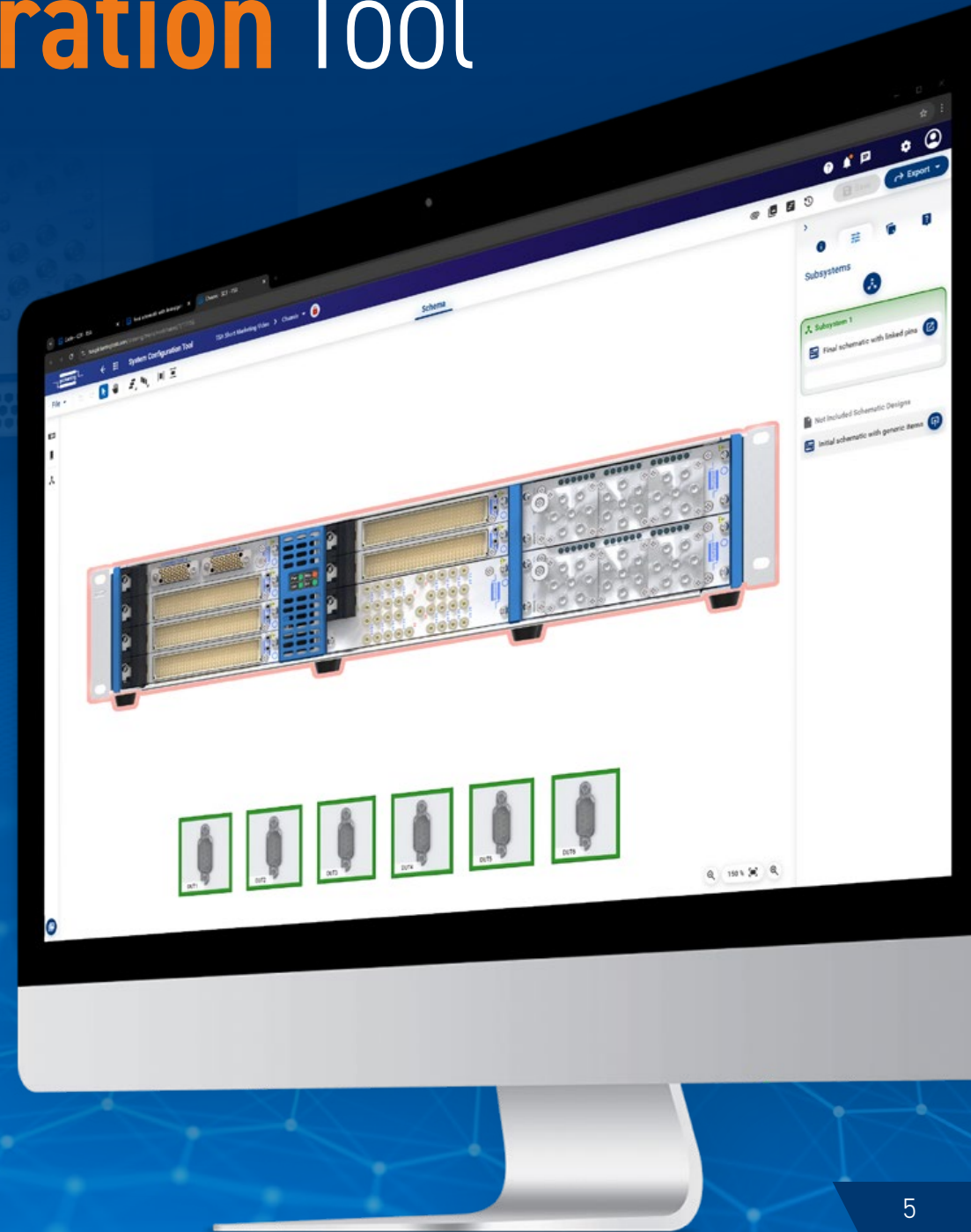
Safely store designs with version control and complete revision history tracking for project continuity and design integrity.

Documentation

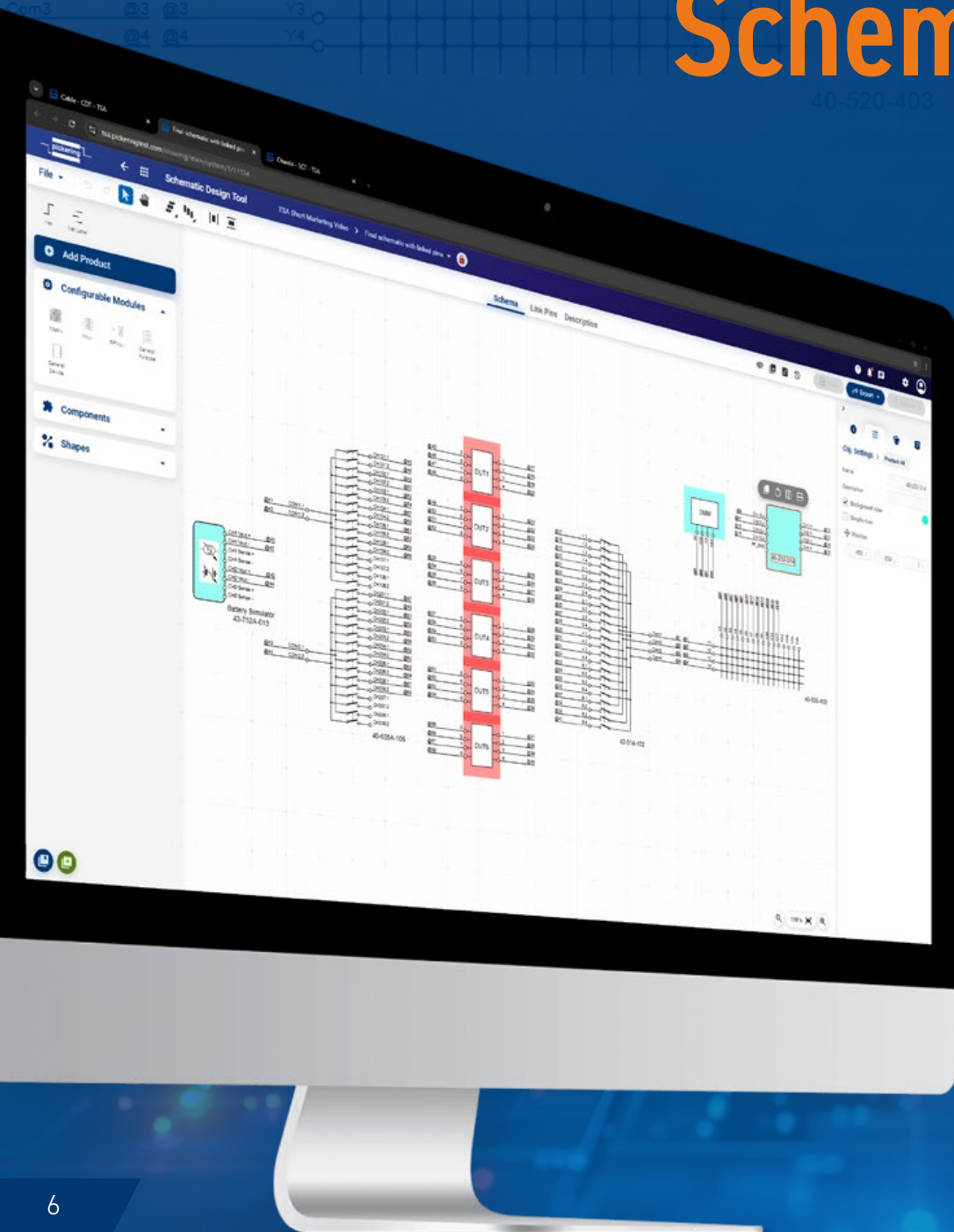
Automatically generate datasheets, BOMs, and documentation to support software development, procurement, and production engineering.

System Configuration Tool

- Select appropriate **PXI, PXIe hybrid, and LXI/USB chassis**, and populate with any of our PXI/PXIe modules via the **Product Selector**.
- Add modelled Devices-Under-Test (DUTs) and 3rd-Party instrumentation to align with your specific system requirements.
- Enhance your workflow by visualizing the system and seamlessly integrating with the **Schematic Design Tool** for signal path design.



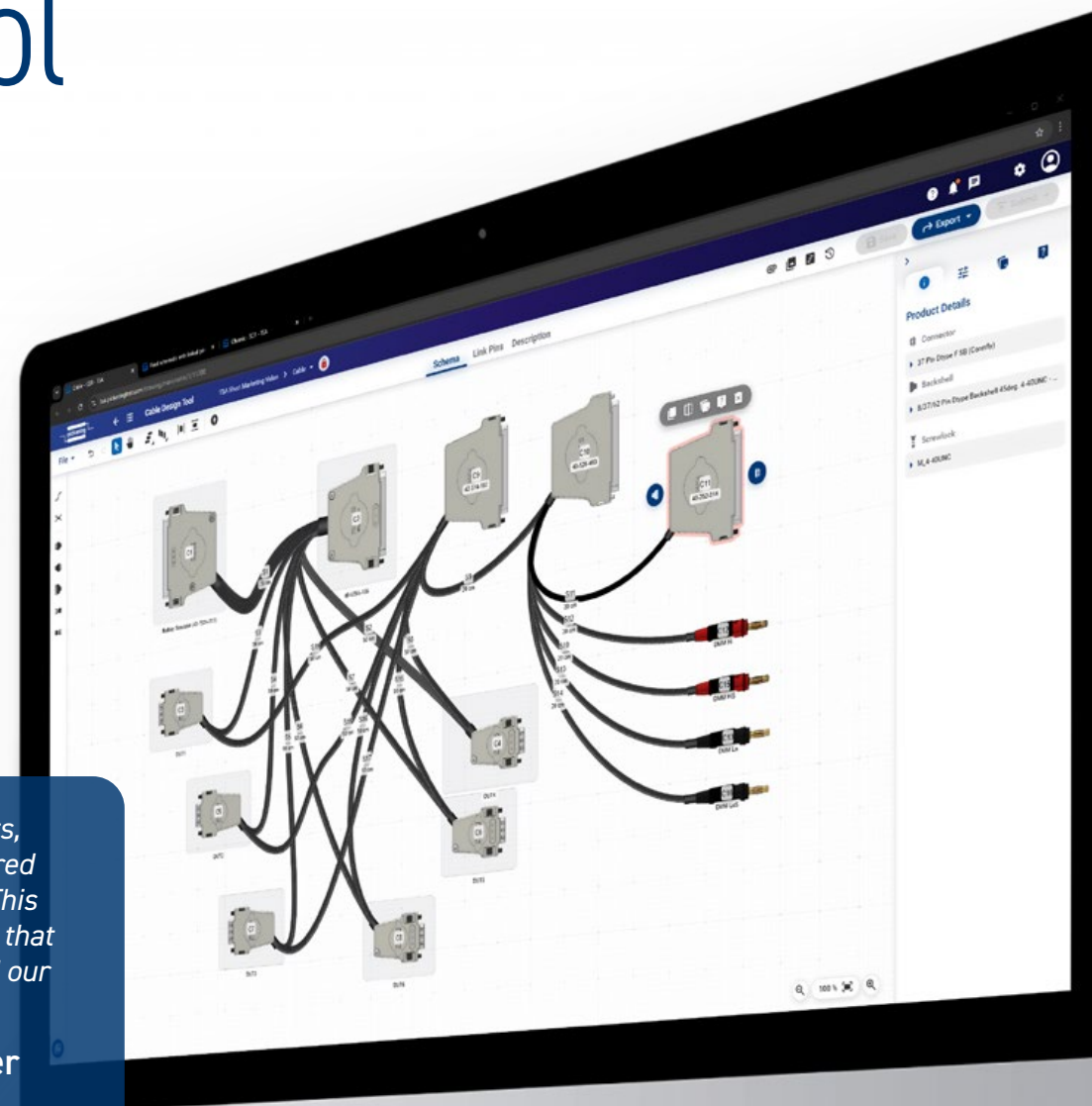
Schematic Design Tool



- Quickly create detailed signal path schematics for automated test systems and sub-systems.
- Import our **switching, simulation and instrumentation modules** using the **Product Selector** or a preconfigured system via the **System Configuration Tool**.
- Graphically add all required interconnections and enable automated cable design via the **Cable Design Tool**.

Cable Design Tool

- Automate high-performance cable designs to meet your exact needs, ensuring reliability and signal integrity.
- Access comprehensive libraries and simplified pin-linking to quickly create any cable configuration.
- Store and evolve cable assemblies in the cloud.
- Generate complete documentation (PDF, SVG, etc.) with full data access.



"Thanks to the close collaboration between Pickering's cable experts, our engineers, and the use of Pickering's Cable Design Tool as a shared resource and means of exchanging information, we had our design. This led to us receiving a high-quality, 131-signal, four-part wiring harness that worked as soon as we connected it between a fuel control system and our HIL test system."

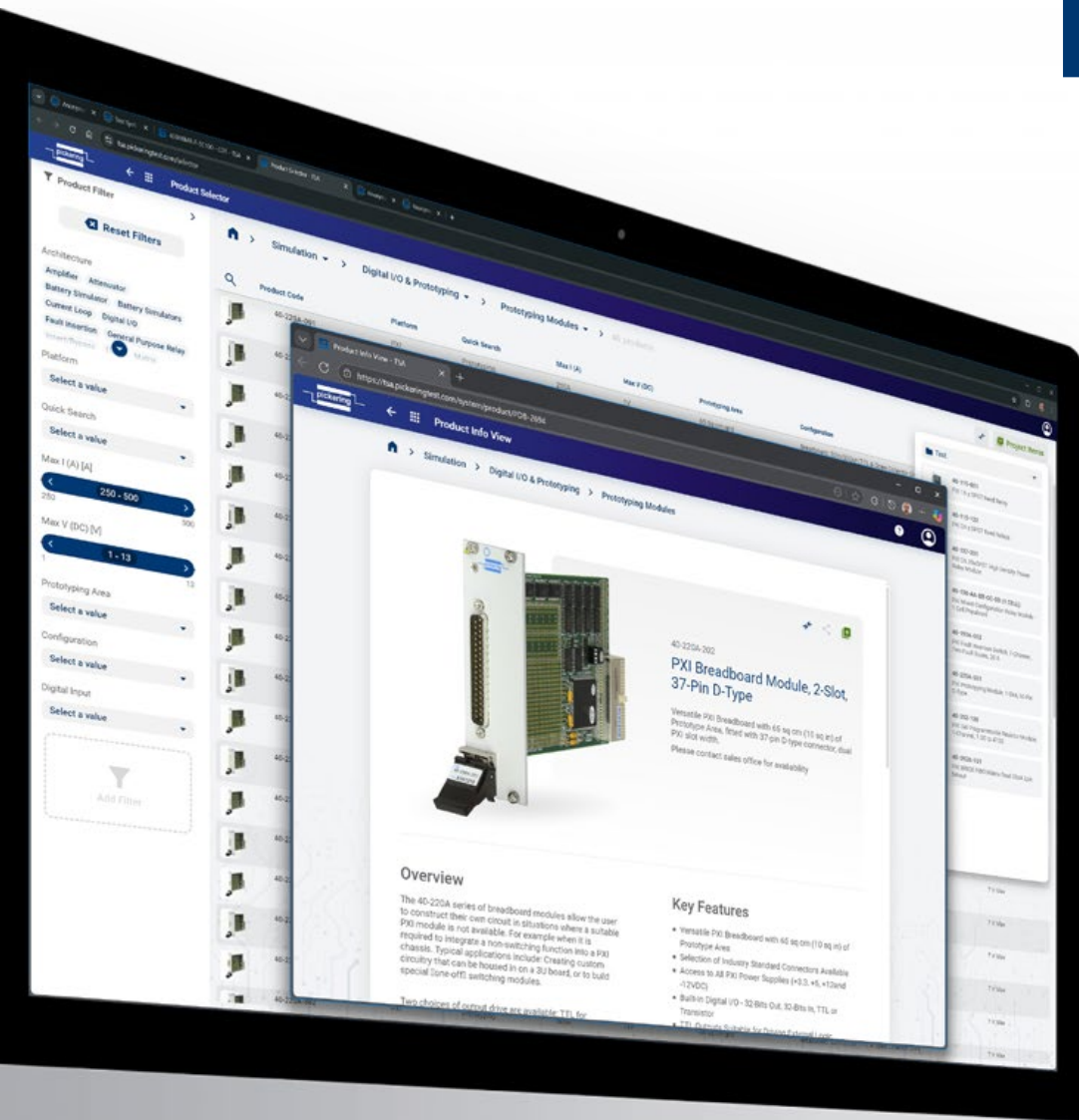
Senior Design Engineer - Large Aerospace Manufacturer

See the results in the full case study: pickeringtest.com/cdt-study

Product Selector

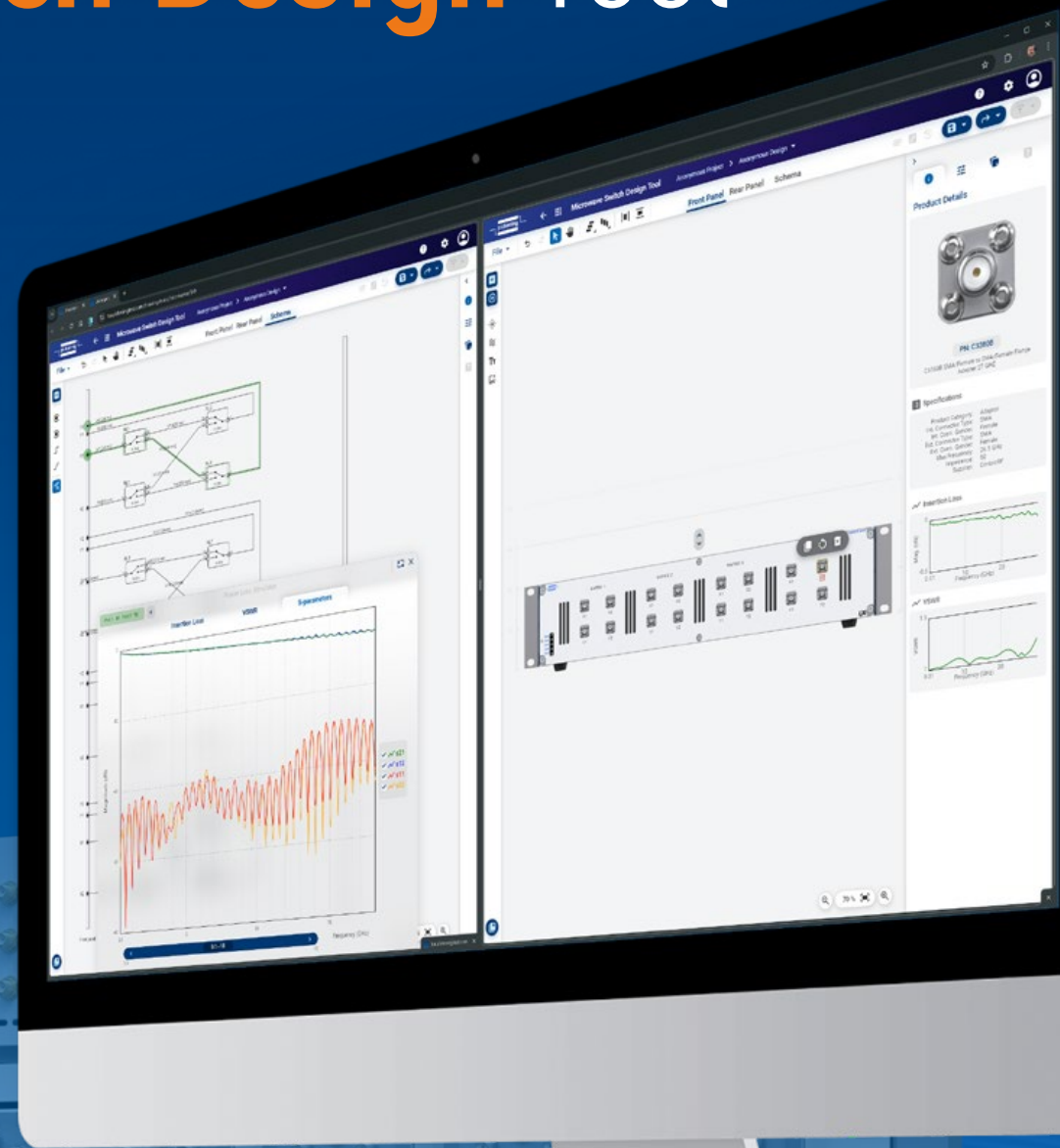
- Query the centralized product database via easy-to-use interactive specification filters.
- Quickly pinpoint the ideal Pickering products for your test system requirements.
- Seamlessly import selected products into the **Schematic Design** or **System Configuration Tools**.

Migration Tool: An extension of the Product Selector that streamlines migration from legacy systems (e.g., VXI, GPIB) to supported PXI architectures by mapping 3rd party obsolete products to compatible Pickering PXI modules.



Microwave Switch Design Tool

- Configure **PXI, PXIe and LXI microwave switching systems**, create complex microwave signal routing and conditioning schematics, select optimal components, and simulate signal path RF characteristics to accurately predict system performance before hardware commitment.
- Specify various microwave components, including relays, attenuators, connectors, and cables, with options for custom labeling and documentation.
- Store designs in the cloud, share with colleagues, collaborate with Pickering engineers, and evaluate system performance through simulation before manufacturing.



Ready to take Your **Signal Path Design** to the Next Level?

Test System Architect brings every stage of automated test system design into one intuitive, cloud-based platform. From signal path schematics and system configuration to automated cable design and collaboration with Pickering engineers, it helps you design smarter, reduce risk, and move from concept to build with confidence.

Try Test System Architect Online Today — pickeringtest.com/tsa



Pickering Interfaces

Pickering Interfaces was formed in 1988 and is headquartered in Clacton-on-Sea, United Kingdom. We operate two manufacturing facilities located in the UK and the Czech Republic, and maintain direct sales and support offices throughout Asia, Europe and North America. Our employees share a strong customer-centric approach and are dedicated to quickly getting our products to peak performance and into our customers' hands.

The Pickering Group's heritage in switching technology dates back to 1968, when our reed relay division, Pickering Electronics, introduced its first reed relays. Today, the group comprises Pickering Electronics, Pickering Interfaces—the switching and simulation division—and Pickering Connect—the connection division. Together, we provide high-quality switching and simulation products, along with a comprehensive range of standard and custom cable and connector solutions.





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