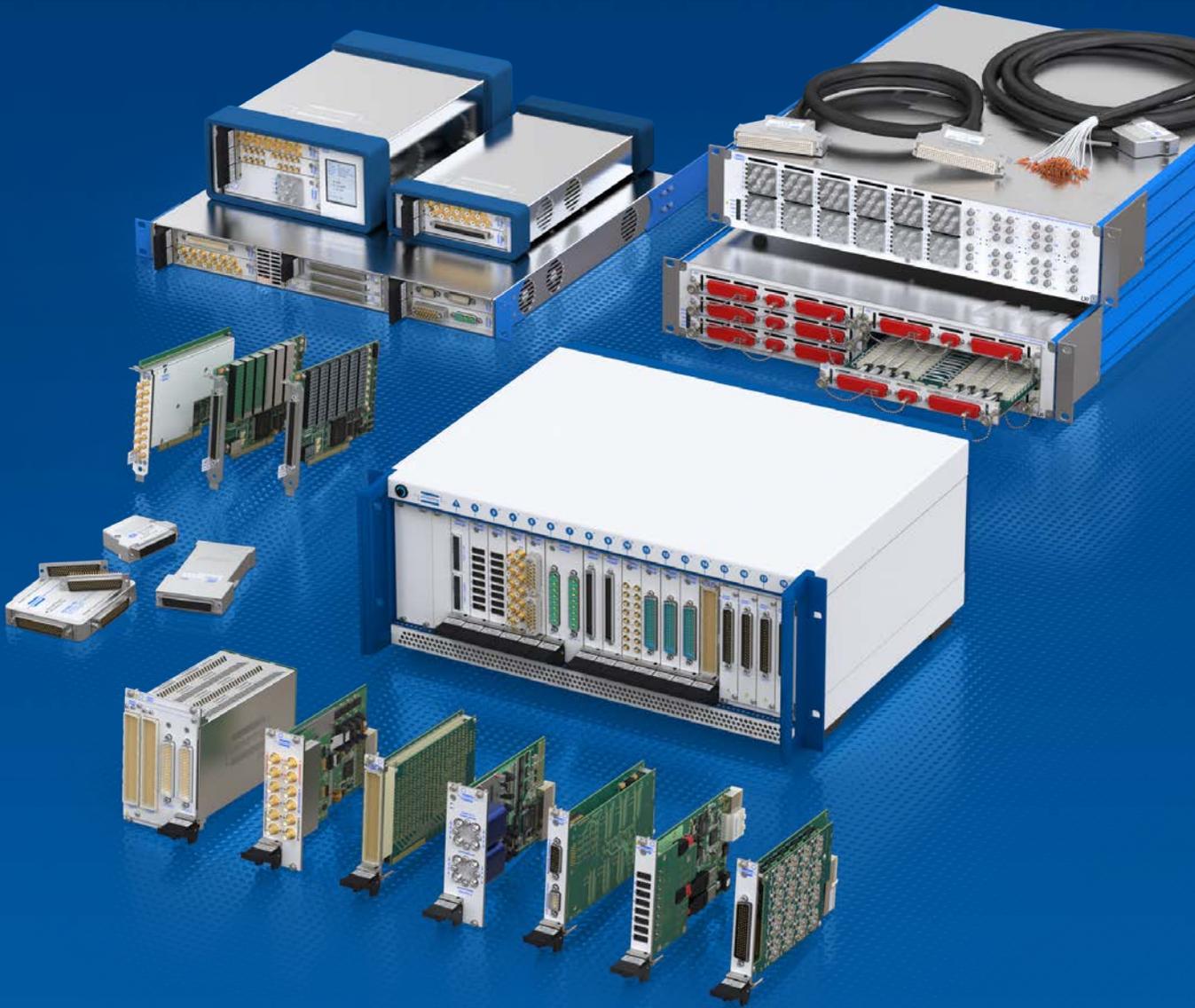


# Signal Switching & Simulation

## for Electronic Test & Verification



Pickering offers you the industry's largest range of switching and simulation products for **PXI, PCI, LXI & USB** applications. To support these products, we also provide cable and connector solutions, diagnostic test tools, application software and software drivers. We are the only switch provider with in-house instrumentation-grade reed relay manufacturing capability.

Enhance your engineering team's effectiveness by working with our collaborative, creative and agile culture. Our over 50 years of experience in switching for automated test, along with a continually expanding range of switching and simulation products, software and services—can help to streamline the development and deployment of your high-performance electronic test and verification systems.

# PXI Switching & Simulation

## PXI & PXIe Switching

- General Purpose up to 1 kV
- Matrices
- Multiplexers
- RF & Microwave up to 67 GHz
- Fault Insertion
- Optical
- Differential & Telecoms
- 6U Switching

**PXI**

**1000+**  
PXI Modules



## PXI & PXIe Simulation

- Programmable Resistors for Simulation of Resistive Sensors including:
  - Temperature
  - Strain
  - Pressure
  - Load/Force
  - Moisture
  - Light
- Battery Simulators
- Thermocouple Simulators
- LVDT, RVDT, Resolver Simulator
- 4-20mA Current Loop Simulator
- Power Supplies
- Digital I/O & Prototyping
- Waveform Generation
- RF and DC Attenuators
- Amplifiers



**PXI**



All of our PXI modules will plug into any PXI chassis or a Hybrid Slot in a PXIe chassis. They can also be hosted in our LXI and LXI/USB modular chassis, allowing remote control over a Gigabit Ethernet or USB3 connection.

Our PXIe modules will plug into any compliant PXIe slot or Hybrid Slot in a PXIe chassis.

# LXI Switching

## LXI Switching Systems

Ethernet-controlled switching solutions.

- Low Frequency Matrices
- Multiplexers
- RF & Microwave up to 67 GHz
- Optical
- **Turnkey** Microwave & Optical Switch & Signal Routing Solutions

We have the expertise and ability to turn your high-level requirements for a microwave switching subsystem into the fully integrated solution that you need. You provide us with your unique configuration and specification. Our engineers will work closely with you to provide a well-defined, fully integrated and supportable end product that will satisfy your microwave testing needs.



## PXI & LXI Scalable Matrices

Our range of PXI and LXI Scalable Matrices offers you large matrix solutions that can be easily reconfigured by the removal and insertion of sub-cards. Each unit is purchased as an empty chassis fitted with the number of sub-cards initially required. As the user's requirements evolve, additional cards can be easily fitted. Most of these large matrices also have the added benefit of Built-In Self-Test.



# PXI & LXI Chassis

## PXI & PXIe Modular Chassis

All of our PXI modules will plug into any PXI compliant chassis or a Hybrid Slot in a PXIe chassis. Our PXIe modules will plug into any compliant PXIe slot or Hybrid Slot in a PXIe chassis. Our chassis offering includes:

- 8, 14, 18 and 19-slot Versions
- Real-time Operating System Support
- Control Kits for External PCs
- Integrated Module Timing and Synchronization



## LXI & LXI/USB Modular Chassis

These chassis accept our 1000+ PXI Switching and Simulation modules and include:

- 2, 4, 6, 7 and 18-slot Versions
- Sequencing/Triggering Provided on Larger Chassis
- Ethernet or USB Control Enables Remote Operation
- Low-cost Control from Practically Any Controller
- LXI Provides Manual Vontrol via Web browsers
- Driverless Software Support
- Power Sequencing Immunity
- Ethernet Provides Chassis/ Controller Voltage Isolation
- Independence from Windows Operating System



# PCI Switching & Simulation

## PCI Switching

- General Purpose up to 500 V
- Matrices
- Multiplexers
- Fault Insertion
- RF



## PCI Simulation

- Programmable Resistors
- Digital I/O
- Waveform Generation



# Cables & Connectors

## Supporting Cable & Connector Solutions

- Cable Assemblies
- Connectors
- Breakouts
- High Density
- High Voltage
- Power
- RF

## Custom Cable Assemblies

There are times when a standard cable will not do the job adequately. You may need for custom cable lengths, specialized connectors and wire types. We have a wide range of defined custom solutions and, we are always willing to quote for new designs.



## Try our online Cable Design Tool

With this free online tool, you can design your custom cable assembly by using either our built-in library of standard cable sets or create them from scratch.

Give it a try at [pickeringtest.com/cdt](http://pickeringtest.com/cdt)



# Support

## Comprehensive Software Solutions

Our commitment to delivering you high-quality products does not just extend to our switching solutions. Our in-house software team has created our Switch Path Manager (SPM) signal routing software, along with application software packages and drivers (available to download free of charge from our website), with a strong focus on ease-of-use and compatibility.

## Diagnostic Test Tools for Switching Systems

Verification and diagnosis of complex switching operation in a test system has always been an issue. Our diagnostic test tools provide you with a quick and straightforward way of finding relay failures within our PXI, PCI and LXI switch systems.

## Long-Term Support

Many of you expect your test systems to last at least as long as the products being tested. We understand this need and pride ourselves on the fact that the design and manufacture of all our switching, simulation, software and connectivity products are done in-house. These capabilities enable us to provide you with guaranteed long-term support, typically 15 to 20 years, and low obsolescence.

## Resources

To help you select the appropriate product from our extensive catalog, we offer an online Product Selector; take a look at [pickeringtest.com/products](http://pickeringtest.com/products). Our products are also supported by detailed data sheets, operating manuals, and access to our in-house team of experienced application engineers. Don't miss out on the available Support Knowledgebase, success stories, white papers, webinars, videos and more at [pickeringtest.com/resources](http://pickeringtest.com/resources).

## Direct Sales & Support Offices

### Pickering Interfaces Inc., USA

Tel: +1 781-897-1710 | e-mail: [ussales@pickeringtest.com](mailto:ussales@pickeringtest.com)

### Pickering Interfaces Ltd., UK

Tel: +44 (0)1255-687900 | e-mail: [sales@pickeringtest.com](mailto:sales@pickeringtest.com)

### Pickering Interfaces Sarl, France

Tel: +33 9 72 58 77 00 | e-mail: [frsales@pickeringtest.com](mailto:frsales@pickeringtest.com)

### Pickering Interfaces GmbH, Germany

Tel: +49 89 125 953 160 | e-mail: [desales@pickeringtest.com](mailto:desales@pickeringtest.com)

### Pickering Interfaces AB, Sweden

Tel: +46 340-69 06 69 | e-mail: [ndsales@pickeringtest.com](mailto:ndsales@pickeringtest.com)

### Pickering Interfaces s.r.o., Czech Republic

Tel: +420 558 987 613 | e-mail: [desales@pickeringtest.com](mailto:desales@pickeringtest.com)

### Pickering Interfaces, China

Tel: +86 4008-799-765 | e-mail: [chinasales@pickeringtest.com](mailto:chinasales@pickeringtest.com)

Local Sales Representative/Agents in Australia, Belgium, Canada, China, India, Indonesia, Israel, Italy, Japan, Malaysia, Netherlands, New Zealand, Philippines, Singapore, South Korea, Spain, Taiwan, Thailand, Vietnam and throughout the USA.

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