

PRELIMINARY DATA

- Available as a PXI or PXIe Module
- High Density Resistor Simulation
- Up To 18 Channels in a One Slot Module
- Resistance Resolution to 0.125  $\Omega$
- Values From 1  $\Omega$  to 85.3 M $\Omega$
- Accuracy of up to  $\pm 0.1\%$   $\pm$  Resolution
- Short and Open Simulation
- Simple Software Control Through Resistance Calls
- VISA & Kernel Drivers Supplied for Windows
- PXI Versions Supported by PXI or LXI Chassis
- 3 Year Warranty

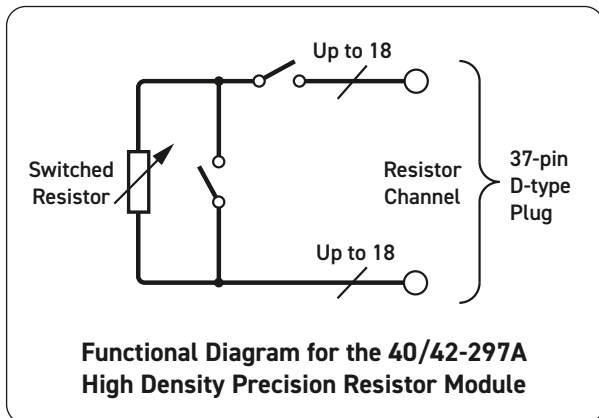


The 40-297A (PXI) or the 42-297A (PXIe) provide a simple solution for applications requiring accurate simulation of resistive sensors. It is available in a variety of resistance ranges and resolutions to meet the needs of functional test systems. It is suitable for engine controller testing where resistive sensors provide information such as temperature.

The 40/42-297A's channels are able to be set as short or open circuit to simulate a wiring or sensor fault.

Software control is simplified by the use of resistor value calls. The module works out the channel setting closest to the requested value and sets that value. The user can interrogate the module to find the actual resistance setting used by the module.

A calibration cable can be attached to the module allowing a DMM to be used to verify each channel. This considerably simplifies the checking of the module's calibration. Verification is performed with the UUT disconnected from the module.



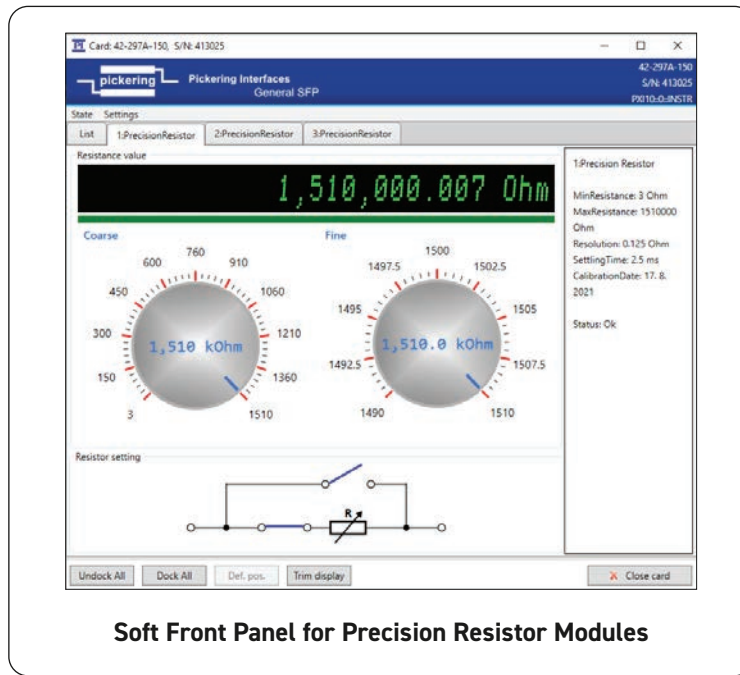
Pickering's Range of PXI/PXIe Precision Resistor Modules					
Model	Description	Chan.	Range	Resolution	Accuracy
40-260	Precision Programmable Resistor	3	90 $\Omega$ to 8 k $\Omega$	<10 m $\Omega$	0.1 %
40-261	Precision Programmable Resistor	2	1.5 $\Omega$ to 2.9 k $\Omega$ or 10 $\Omega$ to 36 k $\Omega$	<2 m $\Omega$ or <15 m $\Omega$	0.08 %
40-262	RTD Simulator	18, 12 or 6	90 $\Omega$ to 250 $\Omega$ or 900 $\Omega$ to 2500 $\Omega$	<8 m $\Omega$ or <90 m $\Omega$	0.1 %
40-263	RTD Simulator	4, 8, 12, 16, 20 or 24	40 $\Omega$ to 900 $\Omega$ , 200 $\Omega$ to 4.5 k $\Omega$ or 400 $\Omega$ to 9 k $\Omega$	<10 m $\Omega$ , <50 m $\Omega$ or <100 m $\Omega$	0.1 %
40-265	Strain Gauge Simulator	6, 4 or 2	350 $\Omega$ , 1 k $\Omega$ , 1.5 k $\Omega$ , 2 k $\Omega$ or 3 k $\Omega$	<2 m $\Omega$ , <10 m $\Omega$ , <12.5 m $\Omega$ , <20 m $\Omega$ or <25 m $\Omega$	0.03 % or 0.06 %
40/42-297A	High Density Precision Resistor	18, 9, 6, 4 or 3	Up to 85.3 M $\Omega$	0.125 $\Omega$ , 0.25 $\Omega$ , 0.5 $\Omega$ , 1 $\Omega$ or 2 $\Omega$	up to 0.1 %
40-298	High Density Precision Resistor	18, 9, 6, 4 or 3	Up to 22.3 M $\Omega$	0.125 $\Omega$ , 0.25 $\Omega$ , 0.5 $\Omega$ , 1 $\Omega$ or 2 $\Omega$	0.2 %
<b>Standard Resistor Modules</b>					
For applications that do not require the precision or accuracy of our precision range, look to our PXI Standard Resistor range which includes models 40-280/1/2, 40-290/1, 40-292, 40-293, 40-294 and 40-295/6					
<b>Custom Resistor Modules</b>					
If our range of Resistor Modules does not meet your specific requirements, please contact you local sales office to discuss your application. Customizations include: different start and stop values, current, power, voltage, precision, accuracy, number of channels, connector etc.					

The 40/42-297A is available in 50 standard builds in each platform that suit the most common configurations required:

- A narrow resistance range version with 9 or 18 channels.
- A medium resistance range version with 4 or 9 channels.
- A wide resistance range version with 3 or 6 channels.

For applications requiring greater resolution and accuracy, or to support verification with the UUT connected, users should consider the **40-260 series Precision Resistor Modules**.

PRELIMINARY DATA



Soft Front Panel for Precision Resistor Modules

PXI/PXIe Part Number (Number of Channels)	Resistance Range										Resolution
	1Ω	10Ω	100Ω	1kΩ	10kΩ	100kΩ	1MΩ	10MΩ	100MΩ		
40/42-297A-010 (18) 40/42-297A-110 (9)	[Bar chart showing range from 1Ω to ~100Ω]										0.125 Ω
40/42-297A-011 (18) 40/42-297A-111 (9)	[Bar chart showing range from 1Ω to ~100Ω]										0.25 Ω
40/42-297A-012 (18) 40/42-297A-112 (9)	[Bar chart showing range from 1Ω to ~100Ω]										0.5 Ω
40/42-297A-013 (18) 40/42-297A-113 (9)	[Bar chart showing range from 1Ω to ~100Ω]										1 Ω
40/42-297A-014 (18) 40/42-297A-114 (9)	[Bar chart showing range from 1Ω to ~100Ω]										2 Ω
40/42-297A-015 (18) 40/42-297A-115 (9)	[Bar chart showing range from 1Ω to ~100Ω]										4 Ω
40/42-297A-016 (18) 40/42-297A-116 (9)	[Bar chart showing range from 1Ω to ~100Ω]										8 Ω
40/42-297A-020 (9) 40/42-297A-120 (4)	[Bar chart showing range from 1Ω to ~100Ω]										0.125 Ω
40/42-297A-021 (9) 40/42-297A-121 (4)	[Bar chart showing range from 1Ω to ~100Ω]										0.25 Ω
40/42-297A-022 (9) 40/42-297A-122 (4)	[Bar chart showing range from 1Ω to ~100Ω]										0.5 Ω
40/42-297A-023 (9) 40/42-297A-123 (4)	[Bar chart showing range from 1Ω to ~100Ω]										1 Ω
40/42-297A-024 (9) 40/42-297A-124 (4)	[Bar chart showing range from 1Ω to ~100Ω]										2 Ω
40/42-297A-025 (9) 40/42-297A-125 (4)	[Bar chart showing range from 1Ω to ~100Ω]										4 Ω
40/42-297A-026 (9) 40/42-297A-126 (4)	[Bar chart showing range from 1Ω to ~100Ω]										8 Ω
40/42-297A-030 (9) 40/42-297A-130 (4)	[Bar chart showing range from 1Ω to ~100Ω]										0.125 Ω
40/42-297A-031 (9) 40/42-297A-131 (4)	[Bar chart showing range from 1Ω to ~100Ω]										0.25 Ω
40/42-297A-032 (9) 40/42-297A-132 (4)	[Bar chart showing range from 1Ω to ~100Ω]										0.5 Ω
40/42-297A-033 (9) 40/42-297A-133 (4)	[Bar chart showing range from 1Ω to ~100Ω]										1 Ω
40/42-297A-034 (9) 40/42-297A-134 (4)	[Bar chart showing range from 1Ω to ~100Ω]										2 Ω
40/42-297A-035 (9) 40/42-297A-135 (4)	[Bar chart showing range from 1Ω to ~100Ω]										4 Ω
40/42-297A-036 (9) 40/42-297A-136 (4)	[Bar chart showing range from 1Ω to ~100Ω]										8 Ω
40/42-297A-040 (6) 40/42-297A-140 (3)	[Bar chart showing range from 1Ω to ~100Ω]										0.125 Ω
40/42-297A-041 (6) 40/42-297A-141 (3)	[Bar chart showing range from 1Ω to ~100Ω]										0.25 Ω
40/42-297A-042 (6) 40/42-297A-142 (3)	[Bar chart showing range from 1Ω to ~100Ω]										0.5 Ω
40/42-297A-043 (6) 40/42-297A-143 (3)	[Bar chart showing range from 1Ω to ~100Ω]										1 Ω
40/42-297A-044 (6) 40/42-297A-144 (3)	[Bar chart showing range from 1Ω to ~100Ω]										2 Ω
40/42-297A-045 (6) 40/42-297A-145 (3)	[Bar chart showing range from 1Ω to ~100Ω]										4 Ω
40/42-297A-046 (6) 40/42-297A-146 (3)	[Bar chart showing range from 1Ω to ~100Ω]										8 Ω
40/42-297A-050 (6) 40/42-297A-150 (3)	[Bar chart showing range from 1Ω to ~100Ω]										0.125 Ω
40/42-297A-051 (6) 40/42-297A-151 (3)	[Bar chart showing range from 1Ω to ~100Ω]										0.25 Ω
40/42-297A-052 (6) 40/42-297A-152 (3)	[Bar chart showing range from 1Ω to ~100Ω]										0.5 Ω
40/42-297A-053 (6) 40/42-297A-153 (3)	[Bar chart showing range from 1Ω to ~100Ω]										1 Ω
40/42-297A-054 (6) 40/42-297A-154 (3)	[Bar chart showing range from 1Ω to ~100Ω]										2 Ω
40/42-297A-055 (6) 40/42-297A-155 (3)	[Bar chart showing range from 1Ω to ~100Ω]										4 Ω
40/42-297A-056 (6) 40/42-297A-156 (3)	[Bar chart showing range from 1Ω to ~100Ω]										8 Ω

Graphical Representation of the 40/42-297A Precision Resistor Module Range

PRELIMINARY DATA

## Specification

Accuracy:	$\pm 0.2\%$ $\pm$ Resolution @ $<300\ \Omega$ @ $\pm 10\ ^\circ\text{C}$ , $\pm 0.1\%$ $\pm$ Resolution @ $\geq 300\ \Omega$ @ $\pm 10\ ^\circ\text{C}$ from calibration temperature (factory calibration @ $21\ ^\circ\text{C}$ )
Fault Simulation:	Open and short circuit (typically $<0.3\ \Omega$ )
Max Power:	$0.5\ \text{W}\dagger$
Max Voltage:	$200\ \text{V}^*$ or as limited by power
Thermal Offset:	$6\ \mu\text{V}$ max
Settling Time:	$3\ \text{ms}\ddagger$
Software Control:	By resistance calls to module for selected channel.
Calibration:	4-wire resistance measurement of selected channel for verification purposes with UUT removed and a special cable assembly attached. Factory calibration data is stored in the module.
Expected Life (operations):	100 million (10 mA)

\* For full voltage rating, signal sources must be fully isolated from mains supply and safety earth.

† Or as limited by voltage/current.

‡ The total operate time when setting a resistance may be longer depending upon the change requested due to relay sequencing.

### Power Requirements - 40-297A

+3.3V	+5V	+12V	-12V
0.24A	1.6 A max	0	0

### Power Requirements - 42-297A

+3.3V	+12V
0.46 A	0.75 A max

## Mechanical Characteristics

40-297A - Single slot 3U PXI (CompactPCI card).

42-297A - Single slot 3U PXIe, compatible with PXIe hybrid slot.

3D models for all versions in a variety of popular file formats are available on request.

## Connectors

40-297A - PXI bus via 32-bit P1/J1 backplane connector.

42-297A - PXIe bus via XJ3 and XJ4 backplane connectors.

Resistor channel signals via front panel 37-pin male D-Type connector.

## Operating/Storage Conditions

### Operating Conditions

Operating Temperature:  $0\ ^\circ\text{C}$  to  $+55\ ^\circ\text{C}$

Humidity: Up to 90% non-condensing

Altitude: 5000 m

### Storage and Transport Conditions

Storage Temperature:  $-20\ ^\circ\text{C}$  to  $+75\ ^\circ\text{C}$

Humidity: Up to 90% non-condensing

Altitude: 15000 m

## PXI & CompactPCI Compliance - 40-297A

The module is compliant with the PXI Specification 2.2. Local Bus, Trigger Bus and Star Trigger are not implemented.

Uses a 33 MHz 32-bit backplane interface.

## PXIe Compliance - 42-297A

The module is compliant with the PXIe Specification 1.0. Local Bus, Trigger Bus and Star Trigger are not implemented.

## Safety & CE Compliance

All modules are fully CE compliant and meet applicable EU directives: Low-voltage safety EN61010-1:2010, EMC Immunity EN61326-1:2013, Emissions EN55011:2009+A1:2010.

PRELIMINARY DATA

## Product Order Codes - PXI Versions

### 0.125 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 31 Ω	9	40-297A-110	18	40-297A-010
1.5 Ω to 472 Ω	4	40-297A-120	9	40-297A-020
2 Ω to 6.97 kΩ	4	40-297A-130	9	40-297A-030
2.5 Ω to 102 kΩ	3	40-297A-140	6	40-297A-040
3 Ω to 1.51 MΩ	3	40-297A-150	6	40-297A-050

### 0.25 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 61 Ω	9	40-297A-111	18	40-297A-011
1.5 Ω to 925 Ω	4	40-297A-121	9	40-297A-021
2 Ω to 13.6 kΩ	4	40-297A-131	9	40-297A-031
2.5 Ω to 201 kΩ	3	40-297A-141	6	40-297A-041
3 Ω to 2.97 MΩ	3	40-297A-151	6	40-297A-051

### 0.5 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 120 Ω	9	40-297A-112	18	40-297A-012
1.5 Ω to 1.81 kΩ	4	40-297A-122	9	40-297A-022
2 Ω to 26.7 kΩ	4	40-297A-132	9	40-297A-032
2.5 Ω to 395 kΩ	3	40-297A-142	6	40-297A-042
3 Ω to 5.82 MΩ	3	40-297A-152	6	40-297A-052

### 1 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 238 Ω	9	40-297A-113	18	40-297A-013
1.5 Ω to 3.55 kΩ	4	40-297A-123	9	40-297A-023
2 Ω to 52.4 kΩ	4	40-297A-133	9	40-297A-033
2.5 Ω to 773 kΩ	3	40-297A-143	6	40-297A-043
3 Ω to 11.4 MΩ	3	40-297A-153	6	40-297A-053

### 2 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 470 Ω	9	40-297A-114	18	40-297A-014
1.5 Ω to 6.97 kΩ	4	40-297A-124	9	40-297A-024
2 Ω to 102 kΩ	4	40-297A-134	9	40-297A-034
2.5 Ω to 1.51 MΩ	3	40-297A-144	6	40-297A-044
3 Ω to 22.3 MΩ	3	40-297A-154	6	40-297A-054

### 4 Ω Resolution\*

Range	Channels	Order Code	Channels	Order Code
1 Ω to 920 Ω	9	40-297A-115	18	40-297A-015
1.5 Ω to 13.6 kΩ	4	40-297A-125	9	40-297A-025
2 Ω to 201 kΩ	4	40-297A-135	9	40-297A-035
2.5 Ω to 2.97 MΩ	3	40-297A-145	6	40-297A-045
3 Ω to 43.8 MΩ	3	40-297A-155	6	40-297A-055

### 8 Ω Resolution\*

Range	Channels	Order Code	Channels	Order Code
1 Ω to 1.8 kΩ	9	40-297A-116	18	40-297A-016
1.5 Ω to 26.7 kΩ	4	40-297A-126	9	40-297A-026
2 Ω to 395 kΩ	4	40-297A-136	9	40-297A-036
2.5 Ω to 5.82 MΩ	3	40-297A-146	6	40-297A-046
3 Ω to 85.3 MΩ	3	40-297A-156	6	40-297A-056

## Product Order Codes - PXIe Versions

### 0.125 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 31 Ω	9	42-297A-110	18	42-297A-010
1.5 Ω to 472 Ω	4	42-297A-120	9	42-297A-020
2 Ω to 6.97 kΩ	4	42-297A-130	9	42-297A-030
2.5 Ω to 102 kΩ	3	42-297A-140	6	42-297A-040
3 Ω to 1.51 MΩ	3	42-297A-150	6	42-297A-050

### 0.25 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 61 Ω	9	42-297A-111	18	42-297A-011
1.5 Ω to 925 Ω	4	42-297A-121	9	42-297A-021
2 Ω to 13.6 kΩ	4	42-297A-131	9	42-297A-031
2.5 Ω to 201 kΩ	3	42-297A-141	6	42-297A-041
3 Ω to 2.97 MΩ	3	42-297A-151	6	42-297A-051

### 0.5 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 120 Ω	9	42-297A-112	18	42-297A-012
1.5 Ω to 1.81 kΩ	4	42-297A-122	9	42-297A-022
2 Ω to 26.7 kΩ	4	42-297A-132	9	42-297A-032
2.5 Ω to 395 kΩ	3	42-297A-142	6	42-297A-042
3 Ω to 5.82 MΩ	3	42-297A-152	6	42-297A-052

### 1 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 238 Ω	9	42-297A-113	18	42-297A-013
1.5 Ω to 3.55 kΩ	4	42-297A-123	9	42-297A-023
2 Ω to 52.4 kΩ	4	42-297A-133	9	42-297A-033
2.5 Ω to 773 kΩ	3	42-297A-143	6	42-297A-043
3 Ω to 11.4 MΩ	3	42-297A-153	6	42-297A-053

### 2 Ω Resolution

Range	Channels	Order Code	Channels	Order Code
1 Ω to 470 Ω	9	42-297A-114	18	42-297A-014
1.5 Ω to 6.97 kΩ	4	42-297A-124	9	42-297A-024
2 Ω to 102 kΩ	4	42-297A-134	9	42-297A-034
2.5 Ω to 1.51 MΩ	3	42-297A-144	6	42-297A-044
3 Ω to 22.3 MΩ	3	42-297A-154	6	42-297A-054

### 4 Ω Resolution\*

Range	Channels	Order Code	Channels	Order Code
1 Ω to 920 Ω	9	42-297A-115	18	42-297A-015
1.5 Ω to 13.6 kΩ	4	42-297A-125	9	42-297A-025
2 Ω to 201 kΩ	4	42-297A-135	9	42-297A-035
2.5 Ω to 2.97 MΩ	3	42-297A-145	6	42-297A-045
3 Ω to 43.8 MΩ	3	42-297A-155	6	42-297A-055

### 8 Ω Resolution\*

Range	Channels	Order Code	Channels	Order Code
1 Ω to 1.8 kΩ	9	42-297A-116	18	42-297A-016
1.5 Ω to 26.7 kΩ	4	42-297A-126	9	42-297A-026
2 Ω to 395 kΩ	4	42-297A-136	9	42-297A-036
2.5 Ω to 5.82 MΩ	3	42-297A-146	6	42-297A-046
3 Ω to 85.3 MΩ	3	42-297A-156	6	42-297A-056

\*Due to the large resolution of the card, actual result on lower resistance will have a larger effect by the  $\pm$  resolution than the % accuracy.

PRELIMINARY DATA

**Accessories:**

Calibration lead for 4-wire resistance measurement using DMM - 37-pin D-type socket to shrouded 4 mm bayonet plugs,

**1 m length: 40-975-037-1m**

**Mating Connectors & Cabling**

For connection accessories for the 40/42-297A series please refer to the [90-007D](#) 37-pin D-Type Connector Accessories data sheet where a complete list and documentation can be found for accessories, or refer to the Connection Solutions catalog.

**Other Resistor Modules**

Pickering Interfaces manufacture a range of variable resistor modules in PXI and PXIe format. If you have a requirement for a variable resistor module please contact your local sales office with the information below and we will advise you on the best solution for your application.

Lowest Resistance †	<input type="text"/>
Highest Resistance	<input type="text"/>
Resistance Resolution	<input type="text"/>
Overall Accuracy	<input type="text"/>
Maximum Power/Current	<input type="text"/>
Number of Channels (variable resistors)	<input type="text"/>

† Resistance is as measured across the user connector terminals, minimum resistance must have a non-zero value.

**Product Customization**

Pickering modules are designed and manufactured on our own flexible manufacturing lines, giving complete product control and enabling simple customization to meet very specific requirements.

Customization can include:

- Alternative resistance range
- Alternative resolution
- Different number of channels
- Different performance specifications

All customized products are given a unique part number, fully documented and may be ordered at any time in the future. Please contact your local sales office to discuss.



**42-297 High Density Precision Resistor Modules in PXIe Format**

## Chassis Compatibility

The PXI versions of this module must be used in a suitable chassis. They are compatible with the following chassis types:

- All chassis conforming to the 3U PXI and 3U Compact PCI (cPCI) specification
- Legacy and Hybrid Peripheral slots in a 3U PXI Express (PXIe) chassis
- Pickering Interfaces LXI or LXI/USB Modular Chassis

The PXIe versions of this module are compatible with the following chassis types:

- All chassis conforming to the 3U PXIe specification
- PXIe and Hybrid Peripheral slots in a 3U PXI Express (PXIe) chassis

## Chassis Selection Guide

### Standard PXI or hybrid PXIe Chassis from any Vendor:

- Mix our 1000+ PXI switching & simulation modules with any vendor's PXI instrumentation
- Embedded or remote Windows PC control
- Real-time Operating System Support
- High data bandwidths, especially with PXI Express
- Integrated module timing and synchronization

### Pickering LXI or LXI/USB Modular Chassis—only accept our 1000+ PXI Switching & Simulation Modules:

- Ethernet or USB control enables remote operation
- Low-cost control from practically any controller
- LXI provides manual control via Web browsers
- Driverless software support
- Power sequencing immunity
- Ethernet provides chassis/controller voltage isolation
- Independence from Windows operating system



## Connectivity Solutions

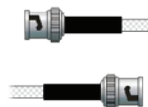
We provide a full range of supporting cable and connector solutions for all our switching products—20 connector families with 1200+ products. We offer everything from simple mating connectors to complex cables assemblies and terminal blocks. All assemblies are manufactured by Pickering and are guaranteed to mechanically and electrically mate to our modules.



Connectors & Backshells



Multiway Cable Assemblies



RF Cable Assemblies



Connector Blocks

We also offer customized cabling and have a free online **Cable Design Tool** that can be used to create custom cable solutions for many applications. Visit: [pickeringtest.com/cdt](http://pickeringtest.com/cdt) to start your design.



## Mass Interconnect

We recommend the use of a mass interconnect solution when an Interchangeable Test Adapter (ITA) is required for a PXI or LXI based test system. Our modules are fully supported by both Virginia Panel and MacPanel.

## Pickering Reed Relays

We are the only switch provider with in-house reed relay manufacturing capability via our Relay Division. These instrument grade reed relays feature **SoftCenter™** technology, ensuring long service life and repeatable contact performance. To learn more, please go to: [pickeringrelay.com](http://pickeringrelay.com)



## Programming

Pickering provide kernel, IVI and VISA (NI & Keysight) drivers which are compatible with all Microsoft supported versions of Windows and popular older versions. For a list of all supporting operating systems, please see: [pickeringtest.com/os](http://pickeringtest.com/os)

The VISA driver is also compatible with Real-Time Operating Systems such as LabVIEW RT. For other RTOS support contact Pickering. These drivers may be used with a variety of programming environments and applications including:

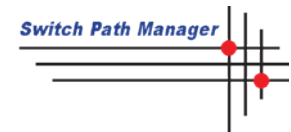
- **Pickering Interfaces Switch Path Manager**
- **National Instruments** products (LabVIEW, LabWindows/CVI, Switch Executive, MAX, TestStand, VeriStand, etc.)
- **Microsoft Visual Studio** products (Visual Basic, Visual C+)
- **Keysight** VEE and OpenTAP
- **Mathworks** Matlab
- **Marvin** ATEasy
- **MTQ Testsolutions** Tecap Test & Measurement Suite

Drivers for popular Linux distributions are available, other environments are also supported, please contact Pickering with specific enquiries. We provide Soft Front Panels (SFPs) for our products for familiarity and manual control, as well as comprehensive documentation and example programs to help you develop test routines with ease.

To learn more about software drivers and development environments, please go to: [pickeringtest.com/software](http://pickeringtest.com/software)

## Signal Routing Software

Our signal routing software, Switch Path Manager, automatically selects and energizes switch paths through Pickering switching systems. Signal routing is performed by simply defining test system endpoints to be connected together, greatly accelerating Test System software development. To learn more, please go to: [pickeringtest.com/spm](http://pickeringtest.com/spm)



## Diagnostic Relay Test Tools

**eBIRST** Switching System Test Tools are designed specifically for our PXI, PCI or LXI products, these tools simplify switching system fault-finding by quickly testing the system and graphically identifying the faulty relay.

To learn more, please go to: [pickeringtest.com/ebirst](http://pickeringtest.com/ebirst)



## Three Year Warranty & Guaranteed Long-Term Support

All standard products manufactured by Pickering Interfaces are warranted against defective materials and workmanship for a period of three years from the date of delivery to the original purchaser. Extended warranty and service agreements are available for all our modules and systems with various levels to suit your requirements. Although we offer a 3-year warranty as standard, we also include guaranteed long-term support—with a history of supporting our products for typically 15-20 years. To learn more, please go to: [pickeringtest.com/support](http://pickeringtest.com/support)

## Available Product Resources

We have a large library of product resources including success stories, product and support videos, articles and white papers as well as application specific product brochures to assist when looking for the switching, simulation and connection solutions you need. We have also published handy reference books on Switching Technology and for the PXI and LXI standards.



To view, download or request any of our product resources, please visit: [pickeringtest.com/resources](http://pickeringtest.com/resources)