

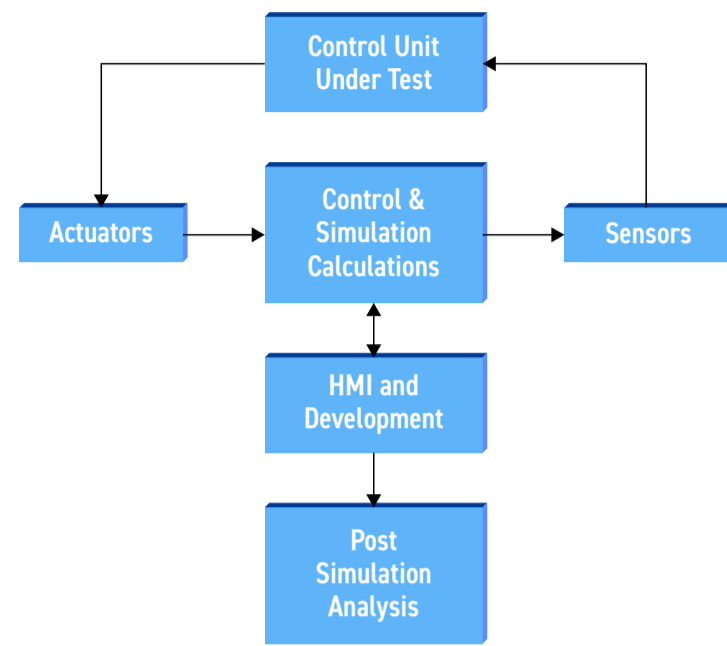
PXI PXIe The **PXI/PXIe** icon denotes that modules are available in both **PXI** and **PXIe** formats. Pickering is committed to making many more of its **PXI** products available as **PXIe**.

Pickering - PXI Simulation

HARDWARE-IN-THE-LOOP & FAULT INSERTION

Hardware-in-the-Loop

Hardware-in-the-Loop Simulation (HILS) connects real signals from a controller to a test platform that simulates the final system's operation. Electronic simulators simulate the ECU's sensor inputs, and measurement instrumentation is used to capture and verify the ECU control outputs. The goal is to make sure that the ECU operates correctly in a known good circumstance and confirm it will operate safely when something goes wrong. An example could be an anti-lock braking system; if the driver steps on the brake pedal and a wheel sensor has failed due to a broken wire, the braking system still needs to stop the vehicle as quickly as possible.



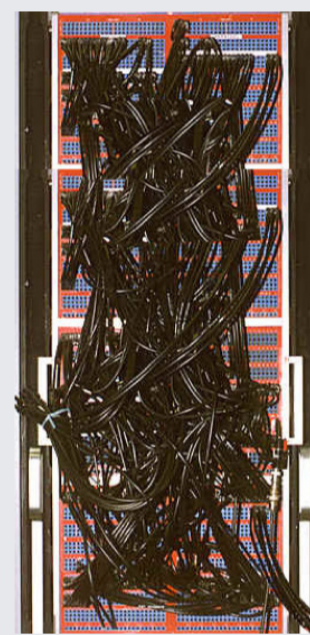
HILS Model Showing the Simulation of an Operating Environment

Design and verification iterations follow precisely as if the actual product were being implemented. All the possible scenarios that can be imagined involving countless combinations of different faults can be reproduced, enabling the ECU or controller to be comprehensively exercised without incurring the cost and time necessary to create the actual set of circumstances and perform the real physical tests.

Fault Insertion

Safety-critical ECUs will usually go through a certification process where a series of faults are introduced. The ECU response is checked to see that it operates in a safe and predictable manner. A manual patch panel is often employed to inject the faults. Cables are used to connect the ECU's I/O lines to stimulus and measurement instrumentation. The I/O lines may be disconnected to simulate open-circuits or tied together to simulate short-circuits to ground, voltage sources, or other I/O lines. An engineer moves the patch cables to simulate a desired fault and then measures the results. However, this arrangement has many inherent disadvantages.

One obvious issue is size, as patch panels tend to be large. The operation is also slow and prone to error, leading to a lack of repeatability. Maintenance and labor costs are high, and operation requires the accumulation and documentation of a skilled knowledge base. A traditional fault insertion system still in use is shown.



Traditional Fault Insertion System using a Patch Panel to inject faults manually

Quickly and precisely reproducing a failed test condition is a major advantage. Automating this type of test secures the best way of producing a traceable report, free from human error. The ability to gain software control of both instrument routing and the insertion of real-time electrical faults greatly enhances the testing process. Fault insertion switching automates the fault insertion process. The principal is simple: switching modules sit between the simulator (test system) and the DUT (ECU/controller) and either pass the signals through unchanged or add a range of fault conditions.

Most applications require the following faults to be modelled as a minimum:

- Open Circuit Connections to DUT
- Short Circuits between DUT pins
- Short Circuits to Ground or Power
- Resistive Faults

PROGRAMMABLE RESISTORS/RESISTIVE SENSOR SIMULATORS

Features	Resistor Modules										Precision Resistor Modules																																	
	40-251, 40-252, 40-253			40-280, 40-281, 40-282		40-290, 40-291, 40-292		40-293, 40-294		40-295, 40-296		40-260, 40-261		40-262, 40-263			40-265		40-297A, 40-298																									
Model Family	Programmable Resistor			Fixed Value Selectable Resistors		Dual Selectable Resistors		Fixed Value Potential Divider		Programmable Resistor		Programmable Load Resistor		Programmable Resistor		Programmable Potentiometer		Precision Programmable Resistor		PT100 RTD Simulator		PT1000 RTD Simulator		Strain Gauge Simulator		Precision Programmable Resistor																		
Number of Channels	1, 2, 4 or 8			1, 2 or 4		1 or 2		24 or 48		12 or 24		12 or 24		2		4		1		2 or 4		3, 5, 6, 10 or 18		1, 2, 3, 4, 5 or 9		3		2		6, 12 or 18			4, 8, 12, 16, 20 or 24		2, 4 or 6		3, 4, 6, 9 or 18							
Resolution	0.125, 0.25, 0.5, 1 or 2Ω									16-Bit		8-Bit		8-Bit		0.25Ω, 0.5Ω, 1Ω or 2Ω		8, 12, 16 or 24-Bit		<10mΩ		<2mΩ		<15mΩ			<8mΩ		<90mΩ		<10mΩ		<50mΩ		<100mΩ		<2mΩ		<10,12.5,20 or 25mΩ		0.125, 0.25, 0.5, 1 or 2Ω			
Accuracy	Module Accuracy ±0.3% ±Resolution			User Specified		User Specified		Resistor Accuracy 0.5%		Resistor Accuracy 5% ±0.5Ω		Resistor Accuracy 1% ±Resolution		Resistor Accuracy ±0.5% (±1% >1 MΩ)		Module Accuracy ±0.08% ±70 mΩ		Module Accuracy ±0.1%		Module Accuracy 0.03%		Module Accuracy 0.1%			Module Accuracy ±0.03%		Module Accuracy 0.06%		Module Accuracy ±0.2% ±Resolution															
Range	Up to 22.3 MΩ			Up to 102 kΩ				User Specified		0.5Ω to 32 kΩ		0.5Ω to 128Ω		40Ω to 295Ω, 10Ω to 2.56kΩ		Up to 131 kΩ		Up to 33.5 MΩ		Up to 16 MΩ		90Ω to 8kΩ		1.5Ω to 2.9kΩ		100Ω to 36kΩ		90Ω to 250Ω			900Ω to 2.5kΩ		40Ω to 900Ω		200Ω to 4.5kΩ		400Ω to 9kΩ		350Ω Bridge		1kΩ, 1.5kΩ, 2kΩ or 3kΩ Bridge		Up to 22.3 MΩ	
Max Resistor Power	2.5W			5W		10W		0.5W		1W		15W				0.5W										100mW											0.5W							
Typical Operate Time	3ms							0.5ms		1ms		3ms		0.5ms										3ms											0.3ms									
Connector Type	37-pin D-type							96-pin Micro-D		68-pin Micro-D		9-pin D-type		37-pin D-type										15-pin D-type and 9-pin D-type			26-pin D-type & 9-pin D-type		37-pin D-type															
Width (PXI-1, PXI-hybrid)	1-Slot			1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1 or 2-Slot			26-pin D-type & 9-pin D-type		37-pin D-type		1-Slot													

BATTERY SIMULATORS

Features	Battery Simulators	
	41/43-752A	41-753
Model Family	Variable voltage source with current source and current sink	
Configurations	2, 4 or 6	
Number of Channels	1	
Input Voltage	+3.3V, +5V & ±12V from PXI backplane	+5V from PXI backplane
Output Voltage	Adjustable 0 to 7V Stackable to 700V	Adjustable 0 to 6V
Max Current	300mA Source 100mA Sink	2.8A Source 0.5A Sink
Connector Type	37-pin D-type	25-pin D-type
Width (PXI-1, PXI-hybrid)	1-Slot	

SWITCH SIMULATORS

Features	Switch Simulators	
	40-480	40-485
Model Family	Automotive Switch Simulator	
Configurations	8, 16 or 32	
Number of I/P Channels	Single or Dual, 8 or 16	
Input Channel Type	Leaky or Dirty Switch Simulation	
Number of O/P Channels	37-pin D-type	
Output Channel Type	1-Slot	
Connector Type	1-Slot	
Width (PXI-1, PXI-hybrid)	1-Slot	

SENSOR/TRANSDUCER SIMULATORS

Features	Thermocouple Simulators		LVDT/RVDT/Resolver Simulator		Analog Output/Current Loop Simulator	
	41-760	41-761	41-670 & 43-670		41-765 & 43-765	
Model Family	Millivolt Source Suitable for Thermocouple Simulation		Simulation of Linear & Rotary Differential Transformers & Resolvers		4-20mA, 0-24mA, +/-24mA Current Loop Simulation at 0-5V, +/-12V & +/-5V	
Configurations	8, 16, 24 or 32		Up to 4 or 8		4, 8, 12 or 16	
Number of Channels	0.7µV, 1.7µV & 3.3µV resolution		16-Bit (Output)		16-Bit (Output within 1µA)	
Resolution	0.1% ±5µV (±20mV range), 0.1% ±10µV (±50mV range), 0.1% ±15µV (±100mV range)		-		Module Accuracy ±0.1% ±Resolution	
Accuracy	±20mV, ±50mV & ±100mV		300Hz to 20kHz		As Above	
Range	78-pin D-type		50-pin D-type		78-pin D-type	
Connector Type	1-Slot		1-Slot		1-Slot	
Width (PXI-1, PXI-hybrid)	1-Slot		1-Slot		1-Slot	

FAULT INSERTION SWITCHING

Features	Fault Insertion Matrices					Fault Insertion Switches															Modular Breakout System																														
	40-592A					40-595A					40-190B		40-191B		40-192A		40-193A		40-194A		40-195		40-196		40-197A		40-198		40-199		40-200		40-201		40-202		40-203		40-204												
Model Family	Dual 31x4 to Dual 124x4 Fault Matrix, 2 Pin Breakout					Dual 31x4 to Dual 124x4 Fault Matrix, 2 Pin Breakout					Dual 20x4 to Dual 80x4 Fault Matrix, 3 Pin Breakout					Dual 20x4 to Dual 160x4 Fault Matrix, 3 Pin Breakout					Dual 16x2 to Dual 30x2 Fault Matrix, 3-Pin Breakout					74, 64 or 32 Channels, 1 or 2 Fault Bus (4 or 8 Fault Input)		6 Signal Channels, 2 Fault Buses (2 Fault Inputs)		7 Signal Channels, 1 or 2 Fault Buses (1 or 2 Fault Input)		22 or 11 Signal Channel Pairs, 8 or 4 Fault Inputs		10 or 5 Signal Channel Pairs, 10 or 5 Fault Inputs		34 or 16 Signal Channels, 4 Fault Buses (8 Fault Inputs)		20 Signal Channels, 1 or 2 Fault Buses (3 or 6 Fault Input)		10 Signal Channels, 1 or 2 Fault Buses (1 or 2 Fault Input)		4 or 8 Pair Differential, 4 Fault Buses (8 Fault Inputs)		4 or 8 Pair Differential, 2 Fault Buses (4 Fault Inputs)		22 or 11 Signal Channel Pairs, 22 or 11 Fault Inputs		3 or 6 pairs of two wire connections designed for use on differential serial interfaces		1 or 2 pairs of two wire connections designed for use on differential serial interfaces inc MUX	
Relay Type	Pickering Instrumentation Reed					Electro-mechanical					Electro-mechanical		Solid State		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical		Electro-mechanical														
Max Switch Voltage	150 VDC/100 VAC					125 VDC/250 VAC					165 VDC/115 VAC		+40 VDC/AC pk		±200 VDC/AC pk		16 VDC		150 VDC/100 VAC		110 VDC/100 VAC		300 VDC/250 VAC		110 VDC/250 VAC		125 VDC/250 VAC		100 V		150 VDC/100 VAC		200V		200V																
Max Switch/Carry Current	1A/1.2A					10A(matrix) 8A(breakout)					2A		40A		10A		20A		1A		5A		2A		5A		10A		0.3A (2A Fault Bus)		2A		0.5A (Hot Switch), 0.8A (Carry)		0.5A (Hot Switch), 0.8A (Carry)																
Max Switch Power	20W					300W/2500VA					60W		1600W		2000W		280W		60W		150W/500VA		60W		150W/1250VA		300W/2500VA		30W (60W Fault Bus)		60W		-		-																
Typical Operate Time	10ms					3ms					3ms		250µs		70µs		10ms		25ms		3ms		3ms		3ms		10ms		3ms		-		0.5ms		3ms																
Connector Type	78-pin D-type					37-pin D-type					160-pin DIN 41612		8-pin Power D-type		96-pin Micro-D		50-pin D-type		78-pin D-type		50-pin D-type		20-pin GMCT & 3-pin Power D-type		78-pin D-type		160-pin DIN 41612		MMCX		MMCX																				
Width (PXI-1, PXI-hybrid)	4-Slot					8-Slot					1-Slot		2-Slot		1-Slot		2-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot		1-Slot																		

Modular Breakout System
Breakout Box & Fault Insertion Unit
• Modular patch panel optimized for fault insertion
• Designed to work with various chassis and specific Pickering FIU modules
• Many options for different current and/or voltage requirements
• Customized versions available to match specific requirements



PXI PXIe The **PXI/PXIe** icon denotes that modules are available in both **PXI** and **PXIe** formats. Pickering is committed to making many more of its **PXI** products available as **PXIe**.

Pickering - PXI Instrumentation

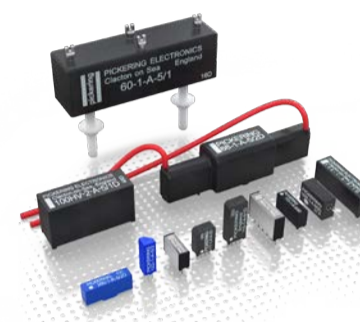
PXI FROM PICKERING INTERFACES

At Pickering, we understand that to design, deploy and sustain your test system can be challenging, and we believe in offering you the products and services to help your engineering team get the job done on time and on budget. Switching and simulation are our core competencies, and we continually expand our range of **PXI, PXIe, LXI, USB & PCI** switching and simulation products. Features include:

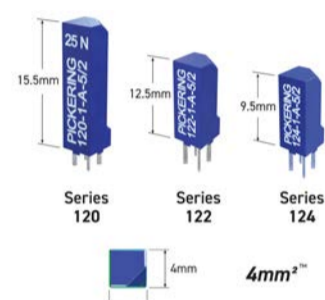
- All module and cable manufacturing processes take place on flexible manufacturing lines, allowing complete product control and product longevity (typically 15-20 years)
- All products manufactured by us come with a **standard 3-year warranty** and include guaranteed long-term support
- When our product range doesn't fit your application, we have the agility and expertise to develop a system to your specifications
- Full range of supporting cable and connector solutions
- Software drivers and application software packages:
 - We provide driver packages for LXI and PXI products offering seamless installation and support of all popular Programming languages such as C/C++, LabVIEW™, LabVIEW RT, .NET, VB, LabWindows/CVI, MATLAB®, Python, ATEasy, TestStand™, VeriStand™ and Switch Executive™ (via the IVI driver). Our drivers use a common General Soft Front Panel with dedicated views for all of our products. Our software application packages include Diagnostic Test Tools, Switch Path Manager™ signal routing software, Sequence Manager, Cable Design Tool and PXI & LXI simulation tools. Learn more at pickeringtest.com/software.
- We are a Sponsor Member of the PXI Systems Alliance

Pickering is the only PXI switch provider with in-house reed relay manufacturing capability. These instrument grade reed relays feature **SoftCenter™** technology, ensuring long service life and repeatable contact performance (for further information visit pickeringrelay.com).

In addition, most of our switch modules use through-hole technology relays (as opposed to surface mount) allowing easy replacement without the need for special tools.



Also from Pickering, the **Ultra-High-Density 4mm²** reed relay product line. These relays stack on a 4mm x 4mm pitch, allowing the highest packing density currently available in the industry, ideal for high-density matrices and multiplexers.



CHASSIS & REMOTE CONTROLLERS

	PXI Chassis				PXI Controllers	PXI/PXIe Hybrid Chassis			PXIe Controllers		LXI Ethernet/USB Chassis				
Chassis Slots	8-Slot	19-Slot	8-Slot	14-Slot	-	8-Slot	18-Slot	21-Slot	-	-	2-Slot	4-Slot	6-Slot	7-Slot	18-Slot
Features	• High Performance Chassis • Remote Management System	• High Performance Chassis • Remote Management System	• 6 Mechanical Expansion Slots for Efficient Housing of Wide Modules e.g. BRIC	• High Performance Chassis • Hot Swappable PSUs	• PCIe to PXI Control Interface Kit • Provides a PCI Express Interface	• Gen3 High Performance Chassis • Remote Management System	• Gen2 & Gen3 High Performance Chassis • Remote Management System	• Gen2 High Performance Chassis • 20 PXIe Hybrid Peripheral Slots • Very High Power and Cooling Capacity	• PXIe Embedded Controller • Max Throughput 14 GB/s • Compact for Versatility	• PCIe to PXIe Control Interface Kit • Daisy Chain Option	• Compact chassis for hosting Pickering's 3U PXI modules in an LXI environment, allowing remote control over an Ethernet or USB connection				
Model Family	40-924	40-923A	40-908	40-914	41-924/51-924	42-924	42-925/42926	42-927	43-920	43-921-001/002 and Kits	60-104	60-105	60-106	60-102D	60-103D

Choosing a Chassis for Pickering PXI Modules

(Please note the chassis slot width for all required modules when selecting a chassis)

Chassis Selection Guide:

PXI and PXIe (with PXIe and/or Hybrid Slots)

- Mix our 1000+ PXI Switching & Simulation modules with any vendors' PXI/PXIe 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 PXI Switching & Simulation Modules):

- Choose from 1000+ Pickering PXI 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

3U PXI modules 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

3U PXIe versions of the modules 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

AMPLIFIERS & ATTENUATORS

	Attenuators			Amplifiers
Features	• Long Service Life & Fast Operation	• High Linearity & True DC Coupling	• 60V input rating	• Up to 60V peak-to-peak output
Model Family	41-182B	41-180	41-660	41-661
Configurations	Solid State Programmable RF Attenuator	Programmable RF Attenuator	High Voltage Attenuator	High Voltage Amplifier
Number of Channels	3 or 6	1 or 2	10 (single ended)	5 (differential)
Frequency Range	10MHz to 6GHz	DC to 3GHz	DC to 20kHz	DC to 120kHz
Maximum Attenuation	31.75dB per channel	63dB per channel	160 times per channel	-
Maximum Gain	-	-	-	20 times
Connector Type	SMA		50-pin D-type	25-pin D-type or SMB
Width (PXI-1, PXI-hybrid)	1 or 2-Slot	1-Slot	1-Slot	1-Slot

SIGNAL GENERATION

	Function Generator
Features	• Simple Generation of Repetitive Arbitrary Waveforms
Model Family	41-620A
Capability	Amplitude Modulation, Edge or Level Triggering, Settable DC Offset, Frequency Sweep
Number of Channels	3
Frequency Range	DC to 10MHz
Frequency Resolution	48-Bit
Clock Source	10MHz PXI clock or external clock
Connector Type	SMB
Width (PXI-1, PXI-hybrid)	1-Slot

DIGITAL I/O

	Digital I/O Modules					
Features	• 32 channel I/O • Suitable for Driving Logic or Relay Coils	• 64ch Driver • Internal or External Relay Supply	• 32 channel I/O • Reconfigurable Threshold	• 32 channel I/O • 2A Output Drivers • Programmable Threshold	• 64 channel I/O • Semi-Dynamic 8-bit Pattern Acquisition/Generation	• Opto Isolation • Suitable for Industrial Automation Applications
Model Family	40-410	40-411	40-412	40-413	40-419	40-490
Configurations	Digital Input/Output Module	Relay Driver Module	Digital Input/Output Module With Programmable Threshold	Digital I/O Module with 16, 32, 48 or 64 channels in ports of 8	Digital I/O Module with 16, 32, 48 or 64 channels in ports of 8	Optically Isolated Digital I/O With or Without On Board DC-DC Converter
Number of I/P Channels	32	-	32	64	16	32
Input Channel Type	TTL	-	0.3V to 50V Threshold	V _{IH} min: 2.0V V _{IL} max: 1.5V	6V Threshold	TTL
Number of O/P Channels	32	64	32	64	32	32
Output Channel Type	TTL or OpenCollector	60V Drive Capability, Up to 1A per Channel	High or Low-Side Drivers (0.4A source, 0.5A sink)	High or Low-Side Drivers (2A source, 2A sink)	Open-Drain Outputs (Low Side Driver)	High Side FET Switch +40V Maximum Voltage up to 400mA per Channel
Connector Type	96-pin Micro-D	78-pin D-type	78-pin D-type	160-pin DIN 41612	68-pin Micro-D	68-pin Micro-D
Width (PXI-1, PXI-hybrid)	1-Slot	1-Slot	1-Slot	1-Slot	1-Slot	1-Slot

PROTOTYPING

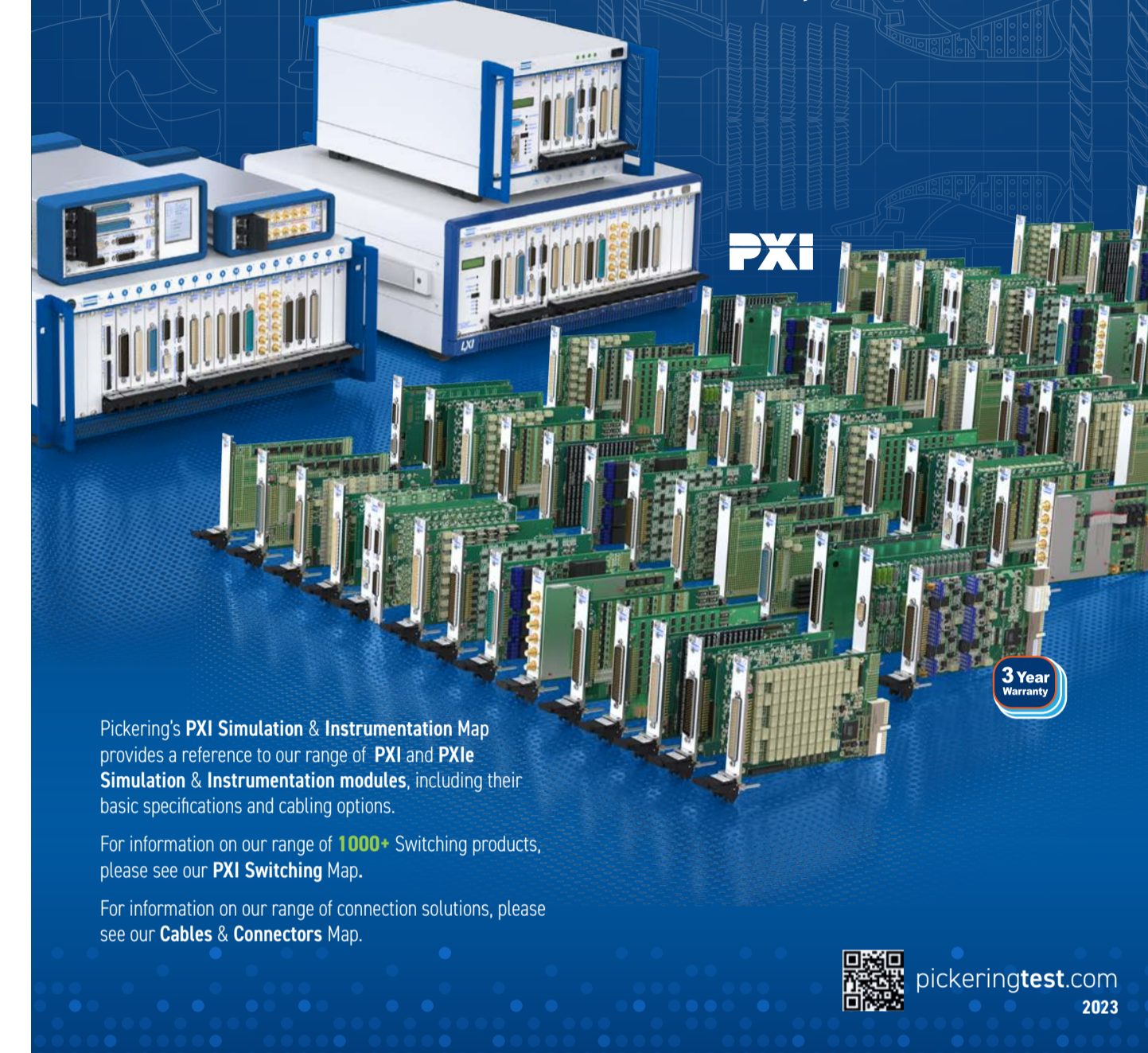
	Prototyping Modules		
Features	• 65cm² (10 in²) of 0.1" Grid Prototyping Area • With or Without Digital I/O	• Breadboard With Digital I/O & Power Distribution	• Breadboard With Digital I/O & Power Distribution
Model Family	40-220A	40-225A	40-228
Configurations	Breadboard With Digital I/O	Breadboard Without Digital I/O	With or Without On Board DC-DC Converter
Number of I/P Channels	32	-	32
Input Channel Type	TTL	-	TTL
Number of O/P Channels	32	-	32
Output Channel Type	TTL	-	TTL, Low Voltage TTL or Open Collector
Connector Type	9, 15, 25, 37, 50, 78-pin D-type, 96-pin Micro-D, 20-pin GMCT	50-pin D-type	50-pin D-type
Width (PXI-1, PXI-hybrid)	1 or 2-Slot	1-Slot	1-Slot

USB

	USB Hub
Features	• 8-Port USB Hub • Stream Data From Backplane
Model Family	40-738 / 42-738A
Configurations	USB 2.0 Hub with Programmable Connect/Disconnect for USB Power and Data
Relay Type	Solid State
Max Switch Voltage	-
Max Switch/Carry Current	0.5A
Max Switch Power	2.5W
Typical Operate Time	-
Connector Type	USB Type A
Width (PXI-1, PXI-hybrid)	1-Slot

PXI Simulation & Instrumentation Modules

- Programmable Resistors
- Resistive Sensor Simulators
- Battery Simulators
- Switch Simulators
- Sensor/Transducer Simulators
- Fault Insertion Switching
- Chassis & Remote Controllers
- Amplifiers & Attenuators
- Signal Generation
- Digital I/O & Prototyping
- USB
- Power Supplies
- Low Voltage/Current Sources
- Connectivity



Pickering's **PXI Simulation & Instrumentation Map** provides a reference to our range of **PXI** and **PXIe** **Simulation & Instrumentation** modules, including their basic specifications and cabling options.

For information on our range of **1000+** Switching products, please see our **PXI Switching Map**.

For information on our range of connection solutions, please see our **Cables & Connectors Map**.



POWER SUPPLIES

	Power Supplies			
Features	• Dual Positive Outputs • Non-Isolated	• Dual Negative Outputs • Non-Isolated	• Dual 0-48V Outputs • Fully Isolated	• High Accuracy & Low Noise • Remote Sense
Model Family	41-735	41-736	41-740	41-743
Configurations	Programmable Voltage Power Supply	Programmable Voltage Power Supply	Isolated Programmable Power Supply	Isolated Programmable Power Supply
Number of Channels	2	2	2	1
Input Voltage	+12V from backplane or external supply	-12V from backplane or external supply	+5V VDC	+5V from two PXI backplane slots
Output Voltage	Adjustable 0 to +10V	Adjustable 0 to -10V	Adjustable 0 to 48V	Adjustable 0 to 48V
Max Current	1A per Channel	2A per Channel	2A per Channel	2A (up to 20V)
Connector Type	25-pin D-type	25-pin D-type	Screw Terminal Block	Screw Terminal Block
Width (PXI-1, PXI-hybrid)	1-Slot	1-Slot	1-Slot	2-Slot

LOW VOLTAGE/CURRENT SOURCES

	Low Voltage Source	Low Current/Voltage Source
Features	• Millivolt Source • Independently Isolated Channels	• Multiple Modes of Operation • Full Isolation in 4 Channel Banks • PXI & PXIe Versions
Model Family	41-761	41-765 & 43-765
Configurations	Millivolt Source Suitable for Thermocouple Simulation	4-20mA, 0-24mA, +/-24mA Current Loop Simulation at 0-5V, +/-12V & +/-5V
Number of Channels	8, 16, 24 or 32	4, 8, 12 or 16
Resolution	0.7µV, 1.7µV & 3.3µV resolution	16-Bit (Output within 1µA)
Accuracy	0.1% ±5µV (±20mV range), 0.1% ±10µV (±50mV range), 0.1% ±15µV (±100mV range)	Module Accuracy ±0.1% ±Resolution
Range	±20mV, ±50mV & ±100mV	As Above
Connector Type	78-pin D-type	78-pin D-type
Width (PXI-1, PXI-hybrid)	1-Slot	1-Slot

CONNECTIVITY

Cables & Connectors

To support our products we offer a comprehensive range of cable & connector solutions:

- 20+ connector product families
- Over 1000 individual products
- Customized cabling

For more information visit: pickeringtest.com/cables-connectors

Mass Interconnect

We recommend the use of a mass interconnect solution when an Interchangeable Test Adapter (ITA) is required to be used with a PXI based test system. The complete range of our PXI modules are fully supported by both VPC and MacPanel mass interconnect solutions.

See **Mass Interconnect**.

VPC Virginia Panel Corporation
www.vpc.com

MAC-PANEL
www.macpanel.com

Cable Design Tool

Our Cable Design Tool is a free online tool that allows you to define a cable assembly to exactly meet your requirements.

- Graphical design of customized cable assemblies
- Built-in library of standard cable sets can be used as the basis for customization, or cables can be defined from scratch
- The ability to store cable assemblies in the Cloud and develop them over time
- Each cable design has a PDF documentation file detailing all the specifications
- Allows detailed design including; connector types, wire type, pin definitions, pin & cable labelling, cable bundling, length selection, sleeving, comments, etc.
- Add your own connectors and wires
- Fully supported on major tablet operating systems

For more information visit: pickeringtest.com/cdt

Connectors & Backshells

Multiway Cable Assemblies

RF Cable Assemblies

DIN Rail Mounted Connector Blocks

Module Mounted Connector Blocks

Switching | Simulation | Programmable Resistors | Custom Design | Software | Reed Relays | Connectivity & Cables

pickering Direct Sales & Support Offices

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