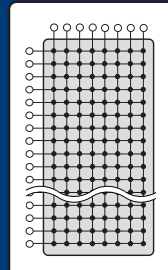
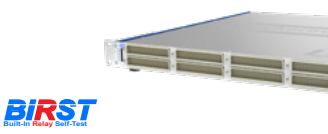
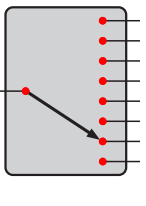
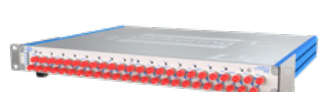
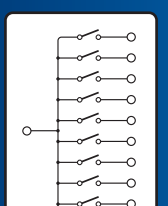


Pickering - LXI Solutions Map

LOW FREQUENCY MATRICES																		
																		
Features	 • Scalable Matrix With Y size of 20 or 40 • User Configurable X Dimension • Loop-Thru Connections For Expansion		 • Single Pole High Density Matrix • Up to 4096 Crosspoints • Dual Analog Bus		 • Single Pole High Density Matrix • Up to 4096 Crosspoints • Dual Analog Bus		 • Double Pole High Density Matrix • Up to 4096 Crosspoints • X and Y Axis Loop-Thru • Dual Analog Bus		 • Single Pole High Density Matrix • Up to 4096 Crosspoints • X and Y Axis Loop-Thru • Easily Expanded to Larger Sizes		 • Single Pole High Density Matrix • Up to 1600 Crosspoints • X and Y Axis Loop-Thru • Easily Expanded to Larger Sizes		 • Wide Choice of Matrix Sizes, Multiple Analog Buses • Add Between One and Six Plug-in Modules • Built-In Scan Lists & Triggering Reduce Test Times					
	Model Family	65-219		60-550		60-551		60-553		60-555		60-556		60-552		60-554		60-590
Configurations	Between 10x40 & 50x40 (60x40 with no Y access) or between 10x20 & 50x20 (60x20 with no Y access)		1-Pole: Between 128x8 and 512x8		1-Pole: Between 128x4 and 512x4		1-Pole: Between 256x4 and 1024x4		2-Pole: Between 192x8 and 512x8		2-Pole: Between 192x4 and 512x4		1-Pole: Between 16x64 and 64x64		1-Pole: Between 64x16 and 256x16		40x20 or 40x40 (can be used as Dual 40x20), Includes two "S" buses with Isolation Switching	
Relay Type	Electro-mechanical														Pickering Instrumentation Ruthenium Reed			
Max Switch Voltage	220 VDC/125 VAC		300 VDC/250 VAC		150 VDC/100 VAC		300 VDC/250 VAC		300 VDC/250 VAC		300 VDC/250 VAC		180 VDC/130 VAC		150 VDC/100 VAC		150 VDC/100 VAC	
Max Switch/Carry Current	2 A														1 A			
Max Switch Power	60 W														20 W			
Typical Operate Time	4 ms		3ms Crosspoint, 6ms Crosspoint + Isolation		4ms Crosspoint, 8ms Crosspoint + Isolation		3ms Crosspoint, 6ms Crosspoint + Isolation		3ms		3ms Crosspoint, 6ms Crosspoint + Isolation		3ms		2ms		2ms	
Connector Type	15-pin D-type & 50-pin D-type		78-pin D-type		160-pin DIN 41612		78-pin D-type		78-pin D-type & 25-pin D-type		50-pin D-type & 25-pin D-type		200-pin		20-pin		20-pin GMCT	
Enclosure Size	2U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep	

High Density		High Power		Low Thermal EMF		Switched Guard Matrix	
							
Features	• Scalable Matrix With Y size of 10 • User Configurable X Dimension • Loop-Thru Connections For Expansion	• Single Pole Power Matrix • Up to 256 Crosspoints • 10A Current Rating	• 1-Pole Low Thermal EMF Matrix • Up to 1848 Crosspoints • Uses Instrumentation Grade Reed Relays	• 1-Pole Low Thermal EMF Matrix • Up to 1848 Crosspoints • Uses High Quality Electro-mechanical Relays	• Up to 10 ¹² Ω Isolation Resistance • Scalable in X and Y using Loop-Thru Connectivity		
Model Family	65-219	60-550	60-551	60-553	60-555	60-556	60-590
Configurations	Between 10x10 & 60x10 (60x10 with no Y access) or between 8x10 & 48x10 (48x10 with no Y access)	1-Pole: Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 or Dual 16x8, 32x4	1-Pole: Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 or Dual 16x8, 32x4	1-Pole: Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 or Dual 16x8, 32x4	1-Pole: Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 or Dual 16x8, 32x4	1-Pole: Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 or Dual 16x8, 32x4	1-Pole: Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 or Dual 16x8, 32x4
Relay Type	Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical
Max Switch Voltage	125 VDC/250 VAC	400 VDC/250 VAC Cold Switching, 125 VDC/250 VAC Hot Switching	150 VDC/100 VAC	200 VDC/170 VAC	100 V		
Max Switch/Carry Current	8 A	10 A	0.5 A Switch, 1 A Carry	1 A	250 mA		
Max Switch Power	240 W/2000 VA	300 W/2500 VA	10 W	6 W	-		
Typical Operate Time	10ms	10ms	0.5ms	3ms	<2 ms		
Connector Type	20-pin GMCT	8-pin Power D-type	37-pin D-type & 25-pin D-type	MMCX			
Enclosure Size	2U High, Full Rack Width, 500mm Deep	1U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep		

OPTICAL SWITCHING									
	Fiber Optic Matrix		Fiber Optic Multiplexers						
									
Features	• Single-Mode or Multi-Mode Fiber Support • MEMS Based Actuation For Long Life and Fast Operation		• Single-Mode Fiber Support • MEMS Based Actuation For Long Life and Fast Operation • Loop-Thru Option For Easy Expansion		• Multi-Mode Fiber Support • MEMS Based Actuation For Long Life and Fast Operation • Loop-Thru Option For Easy Expansion		• Single-Mode or Multi-Mode Fiber Support • MEMS Based Actuation For Long Life and Fast Operation		
Model Family	65-280		60-850		60-851		65-281		
Configurations	Up to a Single 16x16 or Dual 5x5 1-Pole Matrix, or a 2x2 Insert/Bypass Switch via Plug-in Addition		Single 8-Channel, Dual 8-Channel, Single 16-Channel or Single 32-Channel		Single 8-Channel, Dual 4-Channel, Dual 8-Channel, Single 16-Channel, Single 32-Channel or Dual 2x2		Up to Single 32-Channel via Plug-in Addition		
Switching Technology	MEMS (Micro Electro-Mechanical Systems)		MEMS (Micro Electro-Mechanical Systems)						
Wavelength	1240 nm to 1640 nm		1240 nm to 1640 nm		700 nm to 1700 nm		1240 nm to 1640 nm		
Internal Fiber Type	SM 9/125		SM 9/125		MM 62.5/125		SM 9/125		
Typical Operate Time	<1ms (Matrix <10ms)		1 ms		<1 ms		<1 ms		
Cycle Rate	500/sec		500/sec		500/sec		500/sec		
Connector Type	FC/APC, FC/PC, SC/PC, ST, LC		FC/APC, FC/PC, SC/PC, MU, LC		SC, ST		FC/APC, FC/PC, SC/PC, ST, LC		
Enclosure Size	2U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 340mm Deep		1U High, Full Rack Width, 340mm Deep		2U High, Full Rack Width, 500mm Deep		

LOW FREQUENCY MUX									
	High Density								
									
Features	• Scalable MUX with 4 Y-Axis Connections • 4 x 4-Wire Internal Analog Buses • Hardware Interlock Available								
Model Family	65-260								
Configurations	2-Pole: 96 to 576-Channels								
Relay Type	Electro-mechanical								
Max Switch Voltage	110 VDC/125 VAC								
Max Switch/Carry Current	2 A								
Max Switch Power	30 W								
Typical Operate Time	<4 ms								
Connector Type	104-pin D-type & 5-pin Series 1B								
Enclosure Size	2U High, Full Rack Width, 500mm Deep								

HIGH VOLTAGE SWITCHES									
	SPST Switch		Matrices				Multiplexer		
									
Features	• Modular Design • Up to 7kV Rating • Hardware Interlock Available		• Double Pole High Voltage Matrix • Up to 600 Crosspoints • Up to 1000V Rating		• Double Pole High Voltage Matrix • Up to 900 Crosspoints • Up to 750V Rating		• Single Pole High Voltage Modular Matrix • Up to 1200 Crosspoints via Plug-in Modules • Up to 1 kV Rating		• Modular Design • Up to 7kV Rating • Hardware Interlock Available
Model Family	65-233		60-310		60-311		65-218		65-231
Configurations	Up to 300 SPST Switches by Plug-in Addition		2-Pole: Single 100x2, 200x2 or 300x2		2-Pole: Single, Dual or Triple 75x4		1-Pole: Up to a Hex 50x4 or 300x4 by 50x4 Plug-in Addition		1-Pole: Up to a 288 to 1 MUX by Plug-in Addition
Relay Type	Tungsten Reed		High Voltage Rhodium Reed		Electro-mechanical		Electro-mechanical		Tungsten Reed
Max Switch Voltage	7 kV		750 VDC Working/1000 VDC Typical Cold Switching, 500 VDC Hot Switching		750 VDC Continuous/1000 VDC Pulse Cold Switching, 220 VDC/250 VAC Hot Switching		Up to 1000 VDC		7 kV
Max Switch/Carry Current	0.25 A		1 A		2 A Cold Switching, 1 A Hot Switching		2 A Switch, 2 A Carry		0.25 A
Max Switch Power	50 W		10 W		30 W Hot Switching		60 W		50 W
Typical Operate Time	3 ms		0.5 ms		3 ms Crosspoint, 6 ms Crosspoint + Isolation		<5 ms		3 ms
Connector Type	REDEL S Series (51-Pin) HV		50-pin High Voltage D-type & 9-pin High Voltage D-type		3U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep		REDEL S Series (51-Pin) HV
Enclosure Size	2U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep		2U High, Full Rack Width, 500mm Deep

RF & MICROWAVE MATRICES													
	Video Matrix		High Frequency Matrix	Wideband Matrix	RF Matrix - 1GHz			RF Matrix - 2.4GHz			Microwave Matrix		
				Scalable 	  			  					
Features	• Single or Dual 24x8 Matrix • Suitable For Video Switching Applications • Choice of RF Connectors		• Single or Dual 24x8 Matrix • 50MHz Bandwidth, Usable to 100MHz • SMB or BNC RF Connectors	• User Configurable For X and Y Dimensions • Plug In As Many Cards As Required • Built In Self-Test Checks all Relays	• High Bandwidth 75Ω Matrix • Usable to 1.5GHz • Automatic Termination of Unused Inputs			• High Bandwidth 50Ω Matrix • Y Axis Loop-Thru • Automatic Termination of Unused Inputs			• Versatile Microwave Matrix Switching Solution • Loop-thru Option for Easy Expansion • Internal Termination Option		
Model Family	60-711		60-760	65-110A	60-730		60-731	60-732	60-770	60-771	60-772	60-750	60-751
Configurations	Single or Dual 24x8 (Software Configurable)		Single or Dual 24x8 (Software Configurable)	RF Matrix with Sizes Between 24x8 and 104x8 or Between 16x16 and 104x16	32x16 Terminated, 24x16 Terminated, 16x16 Terminated		32x8 Terminated, 24x8 Terminated, 16x8 Terminated, 8x8 Terminated	32x4 Terminated, 24x4 Terminated, 16x4 Terminated, 8x4 Terminated	32x16 Terminated, 24x16 Terminated, 16x16 Terminated	32x8 Terminated, 24x8 Terminated, 16x8 Terminated, 8x8 Terminated	32x4 Terminated, 24x4 Terminated, 16x4 Terminated, 8x4 Terminated	Single or Dual 3x3, Single or Dual 4x4, Single 8x4, Optional Loop-thru and/or Terminations	Single 3x3, Single 4x4, Optional Loop-thru and/or Terminations
Impedance	75Ω		50Ω	50Ω	75Ω		75Ω	75Ω	50Ω	50Ω	50Ω	50Ω	50Ω
Frequency Range	DC to 25MHz		DC to 50MHz (Usable to 100MHz)	200MHz Usable to 500MHz	DC to 1GHz (Usable to 1.5GHz)		DC to 1GHz (Usable to 1.5GHz)	DC to 1GHz (Usable to 1.5GHz)	DC to 2.4GHz	DC to 2.4GHz	DC to 2.4GHz	DC to 10GHz	DC to 18GHz
Insertion Loss	<0.75dB		<1dB	<1dB to 50MHz	<2.5dB		<2.5dB	<2.5dB	<2.5dB	<2.5dB	<2.5dB	<2.5dB	<3dB
Max Power	30W		10W	0.25W (Limited by Termination Resistors)	0.125W (Limited by Termination Resistors)		0.125W (Limited by Termination Resistors)	0.125W (Limited by Termination Resistors)	0.5W (Limited by Termination Resistors)	0.5W (Limited by Termination Resistors)	0.5W (Limited by Termination Resistors)	100W (1W for Termination Resistors)	100W (1W for Termination Resistors)
Typical Operate Time	3ms		3ms	5ms	3ms		3ms	3ms	3ms	3ms	3ms	18ms	18ms
Relay Type	Electro-mechanical		Electro-mechanical	Electro-mechanical	Electro-mechanical		Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical	Microwave Relay	Microwave Relay
Connector Type	SMB, MCX or BNC		SMB or BNC	SMB	F-type		F-type	F-type	SMA	SMA	SMA	SMA	SMA
Enclosure Size	1U High, Full Rack Width, 340mm Deep or 2U High, Full Rack Width, 500mm Deep		1U High, Full Rack Width, 340mm Deep or 2U High, Full Rack Width, 500mm Deep	4U High, Full Rack Width, 500mm Deep	6U High, Full Rack Width, 500mm Deep		3U High, Full Rack Width, 500mm Deep	2U or 3U High, Full Rack Width, 500mm Deep	6U High, Full Rack Width, 500mm Deep	3U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep	

Pickering - LXI Solutions Map

Pickering LXI Solutions Map

Ethernet Controlled Switching for Test, Measurement and Data Acquisition

- General purpose
- Matrices
- Multiplexers
- 400+ Switching systems
- Chassis support for 1000+ modular solutions
- Custom designed and turnkey solutions
- Flexible microwave switch platforms
- Connectivity & Cables



Pickering's LXI Solutions Map is a single sheet reference to our range of LXI Switch Systems and LXI Modular Solutions, including their basic specifications and cabling options.

pickeringtest.com
2025



Pickering LXI Solutions Map

LXI is the power of Ethernet and the Web applied to Test & Measurement (T&M) instruments, offering you new possibilities in test systems—local, remote, distributed and time-aware. Pickering is a Strategic Member of the LXI Consortium. We were early adopters of the LXI standard to provide a standardized interface for Ethernet (LAN) controlled instruments and continue to be active in the specification's evolution. For more information on the LXI Standard, please visit their website at lxistandard.org.

We manufacture a wide range of LXI (Ethernet controlled) switching solutions, including low-frequency matrices, multiplexers, RF & Microwave up to 110GHz, optical systems, as well as LXI/USB modular chassis and Turnkey Solutions.

- Extensive Range of Switching: Matrix, MUX and General Purpose
- Turnkey LXI Microwave Switch and Signal Routing Subsystems
- Comprehensive Range of Cables and Connectors
- Standard Three Year Warranty on all Modules and Switch Systems
- RF/Microwave Switching to 110GHz
- High Current to 10A, High Voltage to 9kV
- Gigabit Ethernet control interface
- USB Support



Example Turnkey Microwave Switch Solutions from Pickering

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

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LXI-013, Aug 2025

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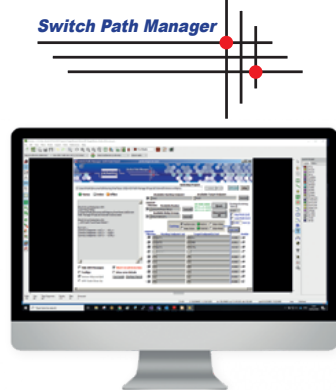
SWITCHING & SIMULATION SOLUTIONS FROM PICKERING INTERFACES

About Us

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 budget. Since 1988, our core focus has and continues to be high-density modular switching and simulation systems for PXI, PCI, LXI and USB applications.

We offer the industry's deepest portfolio (over 1,000 products in PXI alone), but the value doesn't end there. Take a look at the benefits of working with Pickering:

- When our product range doesn't fit your application, we have the agility and expertise needed to develop a system to your specifications, often with little to no engineering cost.
- We can also help accelerate software development and test time by offering tools to help with your programming efforts. These include our Switch Path Manager signal routing software that simplifies coding of switching systems, and simulation tools that allow development to begin before your hardware is received.



- We know that maximizing uptime of your test system is important — with our BIRST and eBIRST diagnostic test tools, you can identify faulty or damaged relays in a matter of minutes.
- Our products have a history of longevity, typically 15–20 years, which is critical to many of our customers. All products manufactured by us come with a standard 3-year warranty* and include guaranteed long-term support.
- Our technical staff can address any hardware or software problems you may encounter with Pickering Products. We have multiple offices located around the world and provide access to support engineers that have many years' experience in functional test and are committed to responding in a timely fashion.
- All module and cabling manufacturing processes are done within our two factories on flexible manufacturing lines allowing us to offer simple customization to meet your needs. The chances are good that we can enhance your engineering team's effectiveness with our collaborative, creative and agile culture.

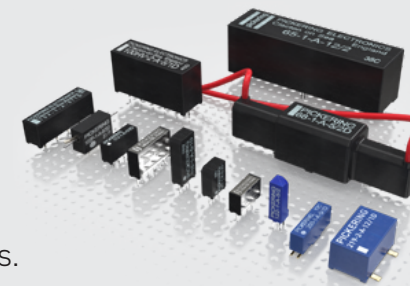


Learn more: pickeringtest.com/whypickering
Note*: Currently the 110GHz products come with a 1-year Warranty

Reed Relays

Pickering is the only 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. 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.

Learn more: pickeringrelay.com



LXI ETHERNET/USB MODULAR CHASSIS & ASSOCIATED MODULES



LXI USB
LXI/USB Modular Chassis:
2-Slot (60-104), 4-Slot (60-105) & 6-Slot (60-106)



7-Slot LXI/USB
Modular Chassis (60-102)

1000+
Test Modules



All of our LXI Modular chassis are capable of hosting an extensive range of our PXI switching & simulation modules in an LXI environment, allowing remote control over a gigabit Ethernet or USB3 connection. In our PXI switching range, these include general purpose relays, matrices, multiplexers, RF switches and special

switching functions such as fault insertion and serial communications. In our simulation range, these include a selection of modules such as programmable resistors, digital I/O, power supplies, battery simulators and attenuators.

For example, our 18-slot chassis can be fitted with a combination of high density

relay modules, matrix modules, multiplexers, power relays, microwave relays and programmable resistors as shown above. Giving you enormous flexibility to define a switching/T&M system that exactly meets your requirements.

For more information go to: pickeringtest.com/lxi



Ethernet

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



Connectors & Backshells



Multway Cable
Assemblies



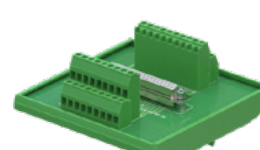
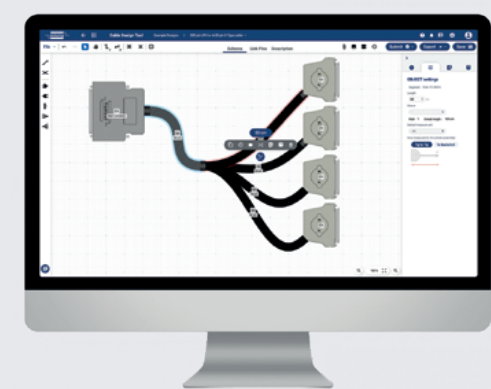
RF Cable
Assemblies

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



DIN Rail Mounted
Connector Blocks



Module Mounted
Connector Blocks

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.



VPC Virginia Panel Corporation
vpc.com



MAC-PANEL
macpanel.com



TURNKEY LXI ETHERNET MICROWAVE SWITCH & SIGNAL ROUTING SUBSYSTEMS

60-891 Integrated Solutions

Do you have limited engineering resources or demand performance that can only be delivered with a fully integrated solution?

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, and 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.

- A turnkey subsystem with a COTS foundation, optimized for size and performance
- Simulated RF performance, 3D model, and datasheet provided before the build
- Fully documented and tested, with results shared prior to delivery
- Integrated into Pickering's commercial manufacturing process
- Tied to commercial obsolescence mitigation strategy
- Support for a wide variety of software application languages
- Endpoint-to-endpoint signal routing application included
- 3-year warranty and typical 20-year support

For complex subsystems, our **Switch Path Manager** signal routing software can be used to significantly reduce integration time. Another important tool we offer is the **LXI hardware simulator**, this tool allows you to develop and test the system software independently from your application hardware.

Visit pickeringtest.com/turnkey to learn more.

Example Turnkey Microwave Switching Systems



12x12 Microwave Matrix

SP36T Microwave Multiplexer

FLEXIBLE LXI ETHERNET MICROWAVE SWITCH PLATFORMS

60-890 Microwave Switch

These flexible, configurable LXI microwave switch platforms may be specified with a mix of high-performance microwave relays up to 110 GHz bandwidth with 50Ω impedance or up to 2.5 GHz with 75Ω and a range of connector types.

- Available relays include Transfer, SPDT, SP4T, SP6T, SP8T, SP10T and SP12T in unterminated and terminated versions
- Flexibility in front-panel relay positioning helps minimize external interconnecting cable lengths
- LED indication of energized switch paths
- Compact 1U to 6U form factors. An example is our LXI Microwave Multiplexers, offering the highest density configuration possible, packaging up to 16 multiplexers in a 2U high rack-mount enclosure
- Excellent RF and repeatability characteristics

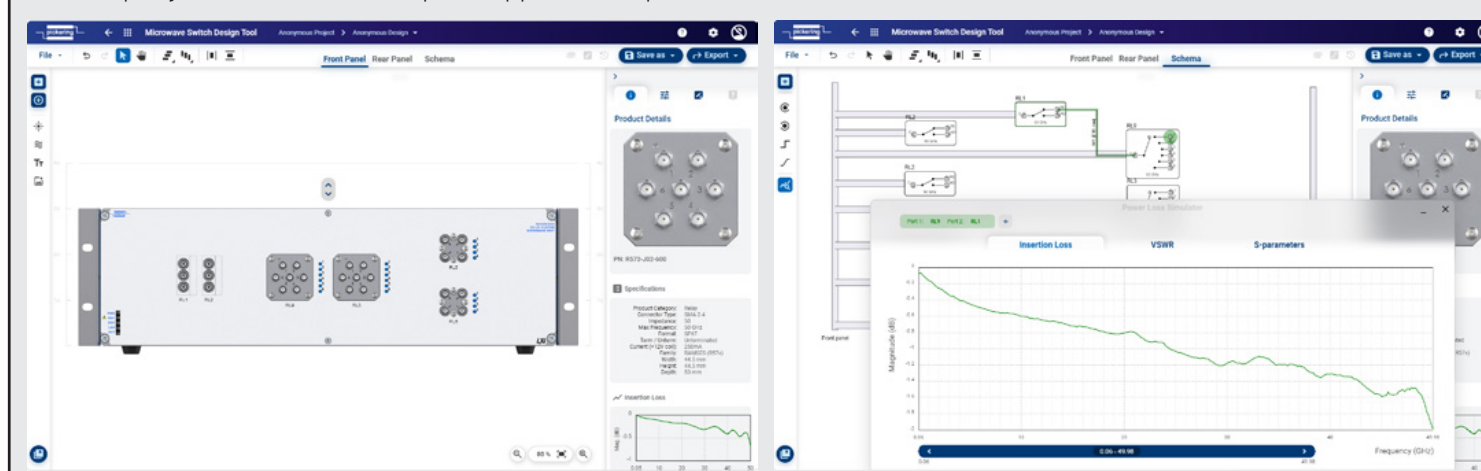
Example 60-890 Switches



Microwave Switch Design Tool

Configuring an application-specific PXI or LXI microwave signal routing system, or RF Interface Unit (RFIU), has never been easier than with our new **Microwave Switch Design Tool (MSDT)**. This free on-line graphical tool lets test system designers quickly and easily model and verify their RFIU designs in a virtual modelling environment, reducing risk and accelerating design-to-production. It couples intuitive graphical schematic design, using a comprehensive internal library of components and cables, with the ability to simulate every RF path's power loss performance.

System test engineers can create and optimize the design to meet their required specifications, and then seamlessly model the external interface panel of a flexible or turnkey RFIU. They can then electronically share the completed project with Pickering's engineering team and collaborate to further optimize the design and help overcome any technical challenges. Once the design is fit for purpose and approved for production, our experienced microwave team will rapidly manufacture a complete application-specific RFIU as detailed in the 60-890 and 60-891 sections above.



To learn more or give the tool a try go to: pickeringtest.com/msdt

pickeringtest.com



pickering

