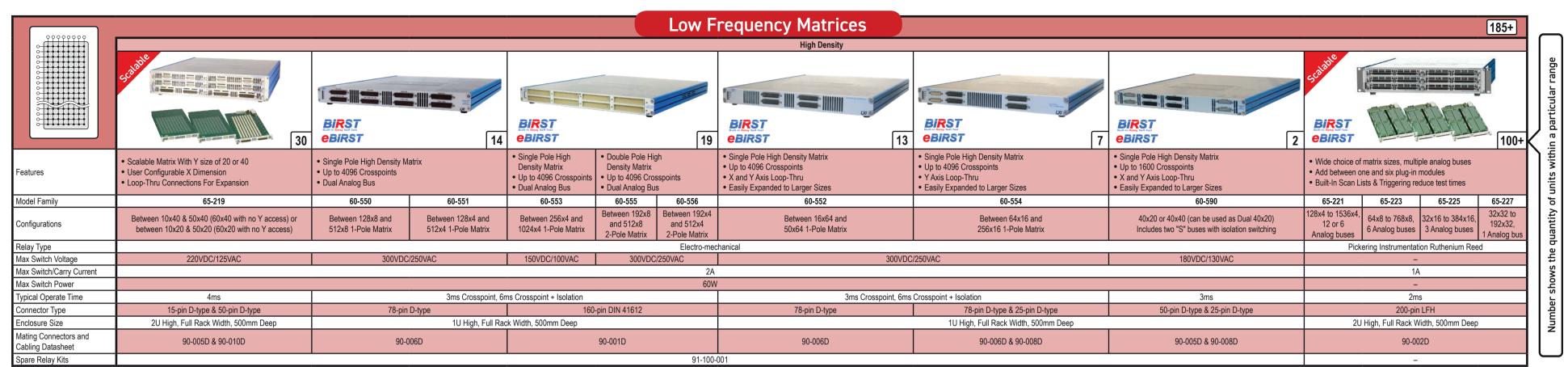
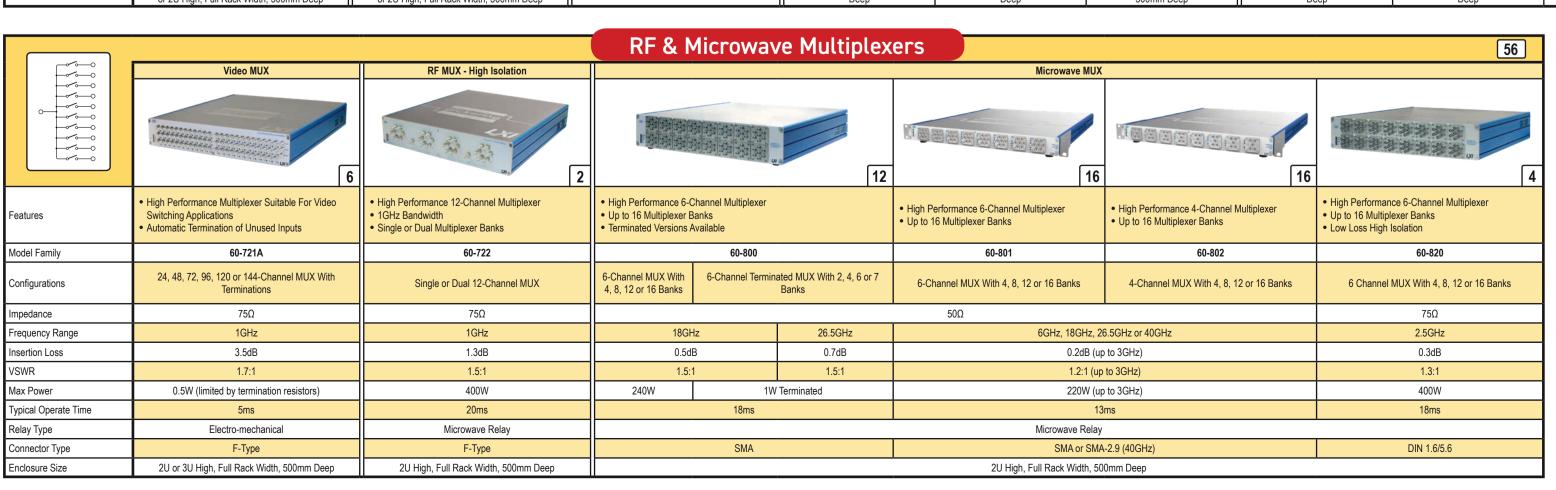
Pickering LXI Solutions Map - 2018

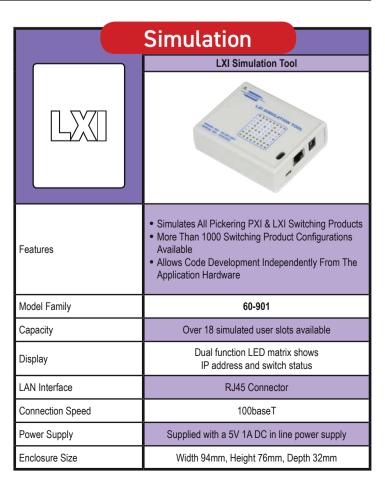


| Low Frequency Matrices | | | | | | | | | |
|--|---|---|--|---|---|---|--|--|--|
| 0000000 | High | Power | High \ | /oltage | Low Thermal EMF | | | | |
| | Scalable 30 | 8 | 3 | 3 | eBiRST | 9 | | | |
| Features | Scalable Matrix With Y size of 10 User Configurable X Dimension Loop-Thru Connections For Expansion | Single Pole Power Matrix Up to 256 Crosspoints 10A Current Rating | Double Pole High Voltage MatrixUp to 600 CrosspointsUp To 1000V Rating | Double Pole High Voltage Matrix Up to 900 Crosspoints Up To 750V 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 Electromechanical Relays | | | |
| Model Family | 65-239 | 60-600 | 60-310 | 60-311 | 60-510 | 60-511 | | | |
| Configurations | Between 10x10 & 60x10 (50x10 with no Y access) or between 8x10 & 48x10 (40x10 with no Y access) | Single 16x16, 16x8, 16x4, 32x8, 32x4, 64x4 1-Pole or Dual 16x8, 32x4 1-Pole Matrix | Single 100x2, 200x2 or 300x2 2-Pole Matrix | Single, Dual or Triple 75x4 2-Pole Matrix | Single, 56x33, 44x33, 42x33, 28x33 or 14x33 1-Pole Matrix | Single, 56x33, 44x33, 28x33 or 14x33 1-Pole Matrix | | | |
| Relay Type | Electro-n | nechanical | High Voltage Rhodium Reed | Electro-mechanical | Pickering Instrumentation Ruthenium Reed Electro-mechanical | | | | |
| Max Switch Voltage | 125VDC/250VAC | 400VDC/250VAC Cold Switching, 125VDC/250VAC Hot Switching | 750VDC Working/1000VDC Typical Cold Switching, 500VDC Hot Switching | 750VDC Continuous/1000VDC Pulse Cold Switching, 220VDC/250VAC Hot Switching | 150VDC/100VAC | 200VDC/170VAC | | | |
| Max Switch/Carry Current | 8A | 10A | 1A | 2A Cold Switching, 1A Hot Switching | 0.5A Switch, 1A Carry | 1A | | | |
| Max Switch Power | 240W/2000VA | 300W/2500VA | 10W | 30W Hot Switching | 10W | 60W | | | |
| Typical Operate Time | 10ms | 10.5ms | 0.5ms | 3ms Crosspoint, 6ms Crosspoint + Isolation | 0.5ms | 3ms | | | |
| Connector Type | 20-pin GMCT | 8-pin Power D-type | 50-pin High Voltage D-type | & 9-pin High Voltage D-type | 37-pin D-type & 25-pin D-type | | | | |
| Enclosure Size | 2U High, Full Rack Width, 500mm Deep | 1U High, Full Rack Width, 500mm Deep | 2U High, Full Rack Width, 500mm Deep 3U High, Full Rack Width, 500mm Deep | | 2U High, Full Rack Width, 500mm Deep | | | | |
| Mating Connectors and Cabling Datasheet | 90-014D | 90-012D | 90-005D | & 90-003D | 90-007D & 90-008D | | | | |
| Spare Relay Kits | - | 91-100-071 | 91-100-053 | _ | _ | _ | | | |

| Fiber Support Actuation For Long Life and Fast | Multi-Mode Fiber Support MEMS Based Actuation For Long Life and Fast Operation | | | | |
|---|---|--|--|--|--|
| Actuation For Long Life and Fast | Multi-Mode Fiber Support MEMS Based Actuation For Long Life and Fast | | | | |
| Actuation For Long Life and Fast | Multi-Mode Fiber Support MEMS Based Actuation For Long Life and Fast | | | | |
| tion For Easy Expansion | Loop-Thru Option For Easy Expansion | | | | |
| 60-850 | 60-851 | | | | |
| 8-Channel, Dual 4-Channel, -Channel, Single 16-Channel or Single 32-Channel | Single 8-Channel, Dual 4-Channel, Dual 8-Channel, Single 16-Channel or Single 32-Channel | | | | |
| MEMS (Micro Electro-Mechanical Systems) | | | | | |
| 1240nm to 1640nm | 700nm to 1700nm | | | | |
| SM 9/125 | MM 62.5/125 | | | | |
| 1ms | | | | | |
| 500 | 500/sec | | | | |
| PC, FC/PC, SC/PC, MU, LC | SC, ST | | | | |
| | 8-Channel, Dual 4-Channel, -Channel, Single 16-Channel or Single 32-Channel MEMS (Micro Electro 1240nm to 1640nm SM 9/125 1 | | | | |

| RF & Microwave Matrices 100 | | | | | | | | | | | |
|-----------------------------|--|--|---|--|---|---|---|---|---|---|---|
| 0000000 | Video Matrix | Video Matrix Wideband Matrix Wideband Matrix | | | RF Matrix - 1GHz | | RF Matrix - 2.4GHz | | | Microwave Matrix | |
| | 7 | 4 | czellalie 46 | 333333333333333 | | | | | | 21 | |
| Features | Single or Dual 24x8 Matrix Suitable For Video Switching Applications Choice of RF Connectors | Single or Dual 24x8 Matrix 50MHz Bandwidth, Useable 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 Useable 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 | 65-110 | 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 | | 50Ω | | | 50Ω | | |
| Frequency Range | DC to 25MHz | DC to 50MHz (useable to 100MHz) | 200MHz Useable to 500MHz | DC to 1GHz (useable to 1.5GHz) | | DC to 2.4GHz | | | DC to 10GHz | DC to 20GHz | |
| Insertion Loss | <0.53dB | <1dB | <1dB to 50MHz | <2.5dB | | <2.5dB | | | <3.6dB | <4.5dB | |
| VSWR | <1.8:1 | <1.8:1 | <1.4:1 | <1.8:1 | | | <1.6:1 | | | <1.6:1 | |
| Max Power | 30W | 10W | 0.25W (limited by termination resistors) | 0.125W (limited by termination resistors) | | | 0.5W (limited by termination resistors) | | | 100W (1W for termination resistors) | |
| Typical Operate Time | 3ms | 3ms | 5ms | 3ms | | | 3ms | | | 18ms | |
| Relay Type | Electro-mechanical | Electro-mechanical | Electro-mechanical | Electro-mechanical | | | Electro-mechanical | | | Microwave Relay | |
| Connector Type | SMB, MCX or BNC | SMB or BNC | SMB | F-type | | | 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 3U High, Full Rack Width, 500mm 2U or 3U High, Full Rack Width, Deep 500mm Deep | | 2U High, Full Rack Width, 500mm Deep | | |





LXI from Pickering Interfaces

Pickering Interfaces were early adopters of the LXI standard as a means of providing a standardized interface for Ethernet (LAN) controlled instruments. • We offer a wide range of switching functions including low frequency, high density matrices, RF and microwave matrices and multiplexers, and

- Our LXI and LXI/USB modular chassis support over 1,000 of our PXI switch and simulation modules.
- Custom switching solutions available—existing products can be adapted to meet a specific requirement or a completely custom solution can be
- Compatible with all popular software: Windows®, Visual Studio®, LabVIEW™, LabVIEW RT™, LabWindows/CVI™, VISA (NI and Agilent), IVI, NISE, Agilent VEE, Mathworks Matlab, Marvin Test ATEasy and our Switch Path Manager. For details, go to: pickeringtest.com/os
- We are Strategic Member of the LXI Consortium.

Pickering is the only provider of PXI and LXI switching products 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.



New from Pickering, the High Density Series 120 reed relay with the world's smallest footprint of 4mm x 4mm. Switching up to 20 Watts, 1 Amp. Ideal for high density matrices and multiplexers.

Most of our switching solutions are supported by our eBIRST Select high density matrix solutions are supplied with Built-In test tools. These simplify switching system fault-finding by quickly testing the system using an externally fitted tool and graphically identifying the faulty relay. For more information go to: pickeringtest.com/ebirst

Additional LXI Literature Available



We have released the third edition of the LXImate book. The 122 page LXImate is an overview of the LXI Standard - an open, accessible standard identifying specifications and solutions relating to the functional test, measurement and data acquisition industry. This new edition has been updated to reflect the change in how products are offered, moving away from a class structure to a structure describing a Core Specification and a set of optional Extended Functions. To downloard or request a copy of LXImate, go to: pickeringtest.com/lximate

The PXI Module Map

A fold-out product guide outlining our full range of over 1000 PXI compatible switching and simulation modules. The majority of these can be supported in our LXI Modular Chassis allowing remote control over Gigabit Ethernet.



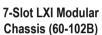
LXImate Book

All literature can be ordered from one of our sales offices or downloaded from: pickeringtest.com/resources/literature

LXI Modular Chassis & Associated Modules



18-Slot LXI Modular Chassis (60-103B)





Relay Self-Test. This allows the easy detection of faulty or

deteriorating relay contacts to help in the diagnosis and verification of complex

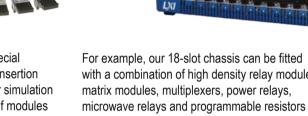
switching systems. For more information go to: pickeringtest.com/birst

2-Slot LXI/USB Modular



Chassis (60-105)





with a combination of high density relay modules, as shown above. Giving you enormous flexibility

Additionally, the 2 and 4-slot chassis can be controlled via a USB3 port.

Ethernet

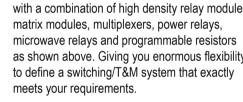


Chassis (60-104)

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 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



For more information go to: pickeringtest.com/lxi

Choosing a Chassis for PXI Modules

Standard PXI or Hybrid PXIe Chassis from any vendor:

- Mix our 1000+ PXI Switching & Simulation modules with any vendors' PXI instrumentation
- Embedded controllers available
- Real-time Operating System support • High data bandwidths, especially with PXI Express
- Integrated Module Timing and Synchronization

Pickering LXI & LXI/USB Modular Chassis—only accept our 1000+ PXI Switching and 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





LXI System 65 **Scalable Matrix Solutions**

Our range of LXI System 65 Scalable Matrices offer the user solutions that can be easily re-configured by the removal and insertion of sub-cards. Each unit is purchased as an empty chassis fitted with the quantity of System 65 sub-cards initially required. As the user's requirements evolve, additional cards can be easily fitted and the control software automatically detects the new configuration. You can find these solutions, product ranges 65-110, 65-219, 65-239 & 65-22x, listed on the





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

Pickering Interfaces

 Online Cable Design Tool For more information please refer to our website:

Our Cable Design Tool is an online tool that allows you to define a cable assembly to exactly meet

 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

The ability to store cable assemblies in the Cloud

pickeringtest.com/cables-connectors

your requirements.

defined from scratch

and develop them over time





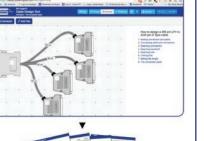


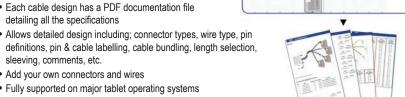




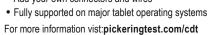


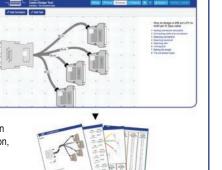






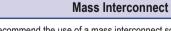
Cable Design Tool











We recommend the use of a mass interconnect solution when an Interchangeable Test Adapter (ITA) is required to be used with test system based on PXI or based on a 7 or 18-slot LXI Modular Chassis. The complete range of our PXI modules are fully supported by both VPC and MacPanel mass interconnect solutions.







Modular Breakout System

Breakout Box & Fault Insertion Unit

- Modular Patch Panel Optimized for Fault Insertion Designed for our PXI and 7 & 18-slot LXI Modular Chassis Designed to Work with Specific Pickering FIU Modules
- Many Options for Different Current and/or Voltage Requirements Customized Versions Available to Match Specific Requirements





hkaco.com/pt10



需要详细资料?请现在通过 sales@hkaco.com 联系我们 | 免费电话: 400-999-3848 办事处: 广州 | 北京 | 上海 | 深圳 | 武汉 | 西安 | 成都 | 台湾 | 香港 | 美国



LXI Solutions Map

pickering



Pickering Interfaces

Ethernet Controlled Switching Solutions

for Test, Measurement and Data Aquisition







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.



Pickering Interfaces

LXI Solutions Map



pickering

- Extensive Range of Switching: Matrix, MUX and General Purpose
- Comprehensive Range of Cables and Connectors
- Standard Three Year Warranty on all Modules and Switch Systems
- RF/Microwave Switching to 65 GHz
- High Current to 40 A, High Voltage to 1 kV
- Gigabit Ethernet control interface
- USB Support

