# Flexible & Scalable Chassis Solutions...



...from Pickering Interfaces

pickering

pickering**test**.com

# Choosing Your Next Chassis: PXI, PXIe, LXI, LXI/USB

Building a robust test system starts with a flexible, high-performance chassis. Whether you require the high bandwidth of PXIe or the convenience of an LXI interface, selecting the right chassis is crucial for seamless integration. We offer PXI and PXIe chassis for maximum flexibility, fully compliant with PXI standards. For remote control, our LXI/USB modular chassis enable control of 3U PXI modules via Gigabit Ethernet or USB. Need scalability? Our LXI chassis platforms can be reconfigured with plug-in modules to adapt to changing requirements. Discover the perfect chassis for your test and measurement needs.

## Our Modular Chassis Offering:



**Gen 3 and Gen 2 PXIe** Chassis



**PXI** Chassis



**LXI/USB** Chassis

## Our Scalable Platform Offering:



**LXI Chassis** Platform

# The **Advantages** of using **Pickering Chassis**



## OBSOLESCENCE

Avoid forced upgrades and costly disruptions with our hybrid chassis. These ensure backward compatibility with any mix of PXI/PXIe modules, extending investment & minimizing downtime.



## RELIABILITY

Timeliness is critical in fast-paced projects. Many of our chassis are currently in stock and ready to ship. Rely on us for dependable delivery and industry-leading 3-year warranty coverage.



## SUPPORT

With direct access to our engineering experts, you'll receive personalized assistance for smooth integration. We work closely to help you maintain productivity without costly contracts.



## COST/TIME

Our chassis are priced competitively and engineered to simplify integration into your systems. Eliminating the time and expense tied to rework or compatibility modifications.



## FLEXIBILITY

Need a compact, cost-effective R&D setup to isolate test segments like high-power or RF & microwave switching, prefer Ethernet/USB control, or use only our PXI modules, our LXI chassis deliver.

# **PXI** or **PXIe Hybrid** versus **LXI/USB**

## PXI Chassis and PXIe Hybrid Modular Chassis

- Mix our 1000+ PXI switching, simulation or instrumentation 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
- Three-year warranty

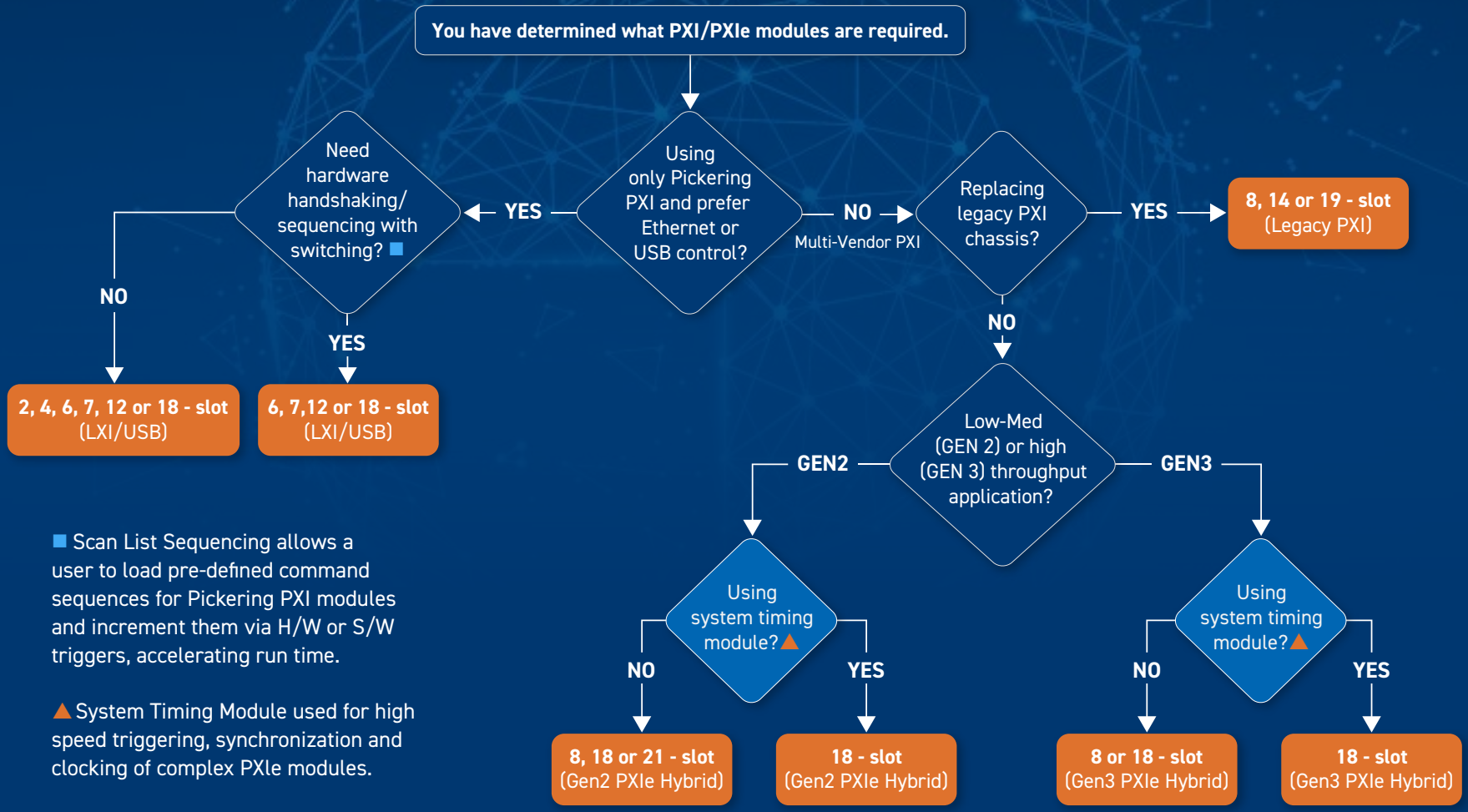
## LXI/USB Modular Chassis

- 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
- Power sequencing immunity
- Ethernet provides chassis/controller voltage isolation
- Three-year warranty



# Pickering Modular Chassis **Selection Guide**

Let's start where all test system designs start. **How do you pick you next modular chassis?** Below is a simple graphic to help you determine which modular chassis is best for your application.




■ Scan List Sequencing allows a user to load pre-defined command sequences for Pickering PXI modules and increment them via H/W or S/W triggers, accelerating run time.

▲ System Timing Module used for high speed triggering, synchronization and clocking of complex PXIe modules.

# PXI & PXIe Gen 3/Gen 2 Chassis:

## Max Performance, High Density, and Cost-Effective Solutions for All Testing Needs

Our PXI and PXIe chassis offer solutions for every test system need—from high-performance Gen 3 PXIe chassis with precise synchronization, to versatile Gen 2 hybrid chassis, and cost-effective PXI chassis for legacy systems.

- **High throughput** for demanding, data-intensive applications
- **Flexible hybrid slots** supporting PXI and PXIe (up to 20 in a 21-slot chassis)
- **Precise timing and sync** with advanced clock oscillators
- **Robust power & cooling** (up to 100 W/slot, dual 900 W supplies)
- **Multiple form factors** (21-, 19-, 18-, 14-, and 8-slot options)
- **Full PXI compliance** for cross-vendor compatibility
- **Long-term** availability and support

**PXI Chassis:**

- 19-Slot PXI Chassis (40-923A-001)
- 14-Slot PXI Chassis (40-914-001)
- 8-Slot PXI Chassis (40-924-001)

**PXIe Gen 3 Chassis:**

- 18-Slot PXIe Full Hybrid Chassis (42-925-001)
- 8-Slot PXIe Full Hybrid Chassis (42-924-001)

**PXIe Gen 2 Chassis:**

- 21-Slot PXIe Full Hybrid Chassis (42-927-101)
- 18-Slot PXIe Full Hybrid Chassis (42-926-001)

3 Year Warranty



# LXI/USB Chassis:

## High Density, High-Performance & Cost-Efficient

For engineers requiring decentralization and easy remote operation, our LXI/USB chassis can host any of our 1000+ PXI switching, simulation and instrumentation modules. Available in 2-, 4-, 6-, 7-, 12- and 18-slot options, they provide the perfect entry point into testing or simple expansion of existing test systems. Whether used for small-scale testing or as a cost-conscious solution, LXI/USB chassis provide unmatched flexibility and efficiency.

- **Remote control** via Ethernet or USB
- **Compact designs** in 2-, 4-, 6-, or 12-slot configurations
- **Web-based control** through browsers, no drivers needed
- **Platform independent** for use beyond Windows OS
- **Optional sequencing** for streamlined switching
- **Easy expansion** of PXI systems via Ethernet




**Available LXI/USB Chassis:**

- 18-Slot Modular Chassis 60-103D*
- 12-Slot Modular Chassis 60-107*
- 7-Slot Modular Chassis 60-102D*
- 6-Slot Modular Chassis 60-106*
- 4-Slot Modular Chassis 60-105-001
- 2-Slot Modular Chassis 60-104-001

* with Sequencing & Triggering option

# LXI Chassis Platform:

## Flexible, Scalable LXI Platforms with Easy Module Integration

The 65-series chassis platforms offer flexible and scalable solutions, allowing for easy reconfiguration by adding or removing modules or sub-cards. As needs evolve, additional components can be seamlessly integrated, with control software automatically adapting to new configurations.

**LXI 2U 6-slot Chassis (65-200)**

Allows easy reconfiguration with up to six plug-in modules and is supplied as an empty chassis with selected modules.




**LXI 4U 15-slot Chassis (65-110A)**

Offers easy reconfiguration by swapping sub-cards. As needs change, new modules can be added, and the control software automatically detects the updated setup.

# **Customization** and **Accessories**

Our PXI chassis can be fully customized for your application — from compact or specialized formats to tailored backplanes, PSU capacities, breakout systems, and branding. Embedded controllers remove the need for an external PC, integrating CPU, storage, memory, and I/O in one unit. Gen 4 controller modules with 11th Gen Intel® Core™ i5 or Xeon® processors support PXI Express and CompactPCI Express platforms. Complementary accessories such as slot blockers, air inlet cards, blanking panels, and mounting kits further enhance cooling, performance, and integration flexibility.

**Contact Us to Discuss Your Requirements.**



# Pickering Interfaces

Pickering Interfaces was formed in 1988 and is headquartered in Clacton-on-Sea, United Kingdom. We have two manufacturing facilities—in the UK and the Czech Republic. We also have direct sales and support offices throughout Asia, Europe and North America. Our employees share a customer-centric approach and are dedicated to quickly getting our products functioning at their peak and into our customers' hands.




Today, we offer modular signal switching, simulation, software and services to streamline the development and deployment of high-performance electronic test and verification systems. We provide the most extensive range of switching and simulation solutions in the industry for PXI, LXI, USB and PCI applications. To support our switching and simulation solutions, we also offer application software and software drivers along with a full range of supporting connectivity and cabling solutions.

The Pickering Group of companies has been in switching technology since 1968 when our reed relay division, Pickering Electronics, introduced its first reed relays. It comprises Pickering Electronics, Pickering Interfaces—the switching and simulation division and Pickering Connect—the connection division. Together we deliver high-quality switching and simulation products and a full range of standard and custom cable and connector solutions.





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