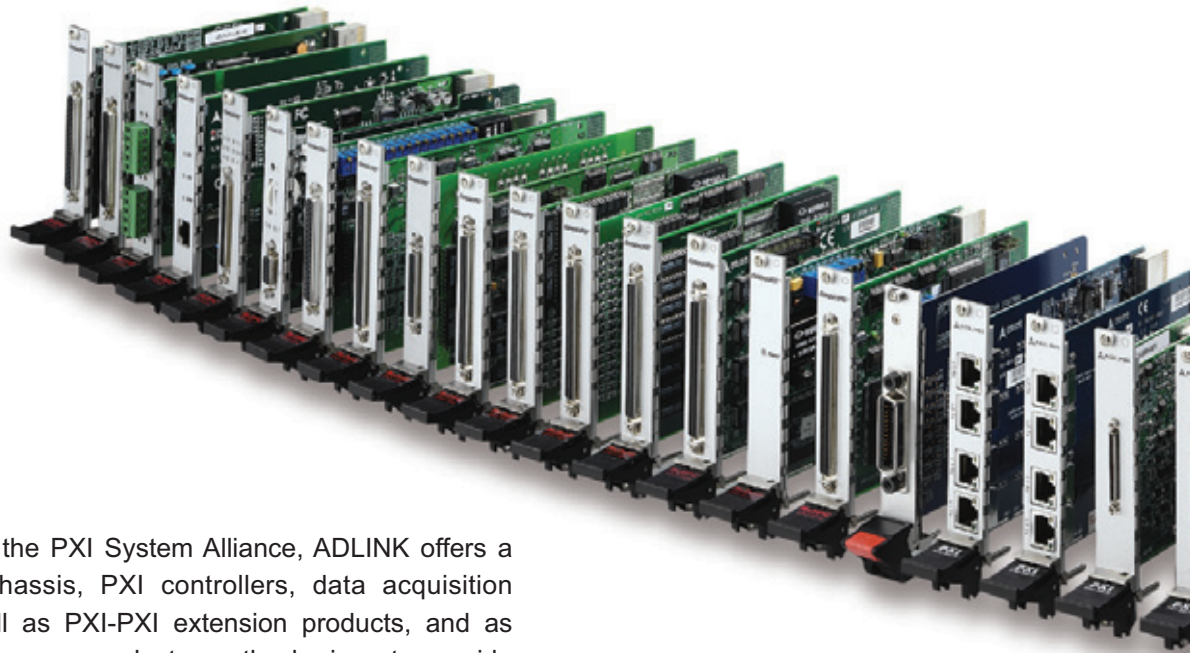


Seamless Migration to PXI



As a sponsor member of the PXI System Alliance, ADLINK offers a wide selection of PXI chassis, PXI controllers, data acquisition modules, PCI-PXI as well as PXI-PXI extension products, and as GPIB connectivities - with more products on the horizon to provide open hardware and software support for our customers.

Overview

PXI, PCI eXtensions for Instrumentation, is a modular instrumentation platform designed exclusively for measurement and automation applications. A single versatile PXI system supports multiple PXI and CompactPCI modules from various vendors. Communication among the modules uses familiar PC-based technologies such as the 132 MB/s PCI bus, allowing high-performance communication that leverages widely available software. PXI also integrates timing and synchronization into the system, so you can pass signals among instruments in high performance and accuracy, without additional wiring.

Based on CompactPCI

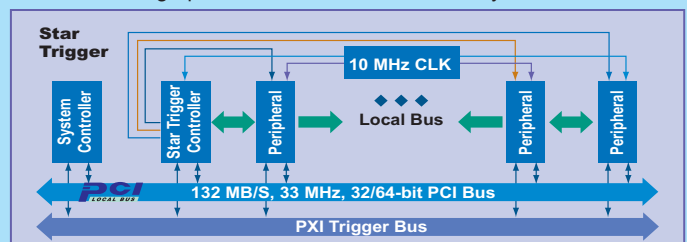
The PXI specification, now at revision 2.2 that leverages the CompactPCI specification, defines a rugged Eurocard form factor from PCI. It provides superior mechanical integrity with easy installation and removal of hardware components. PXI products offer greater and more carefully defined levels of environmental performance required by the vibration, shock, temperature, and humidity extremes of industrial and military environments. PXI adds mandatory environmental testing, EMC testing, and active cooling to the CompactPCI mechanical specification to ease system integration and ensure multi-vendor interoperability. The most compelling benefit for PXI, however, is the dominance of PCI-based technologies in the desktop PC marketplace which is served by over 800 suppliers. The result is widespread availability of PCI-based silicon, firmware, drivers, operating systems, and software applications--all of which can be applied cost-effectively in PXI-based systems.

Compact Integration

With PXI modular instrumentation, you can easily integrate the functionalities that you need into a single system. Instrumentation, data acquisition, machine vision, motion control, and bus interface modules are only some of the many PXI devices available. Additionally, integration with other system architectures, including GPIB, Serial, and Ethernet systems is easy with PXI. Since PXI is based on standard PC technologies such as Windows and the PCI bus, integrating a PXI system to these systems is typically not different from integrating a PC to these systems. Use these system architectures when you wish to preserve a past investment in hardware, or need functionality not available in PXI.

Trigger and Synchronization

The PXI bus combines the high-speed PCI bus with timing and synchronization designed exclusively for measurement and automation. The PXI trigger bus consists of 8 shared trigger bus lines, a low-skew star trigger line, and a common 10 MHz system reference clock. Using these synchronization features, you can easily deliver trigger, clock, and other electrical signals among PXI modules to have the accurate, high-performance measurement that you need.





PXI-3920



PXIS-2508



PXIS-2558T



PXIS-2690P

Wide Range of Applications

The merits of PXI mechanical, electrical, and software specifications make PXI ideal for a wide range of applications:

- Machine Automation
- High-Volume Electronic Manufacturing Testing
- IC Testing
- In-Vehicle Control & Testing
- High-Speed/High-Channel-Count Measurement
- Radar/Sonar Systems
- Wireless Communication
- Medical Instruments
- Transportation
- Data Recording

PXI/CompactPCI Product Offering

- 3U/6U Chassis
- 3U/6U Controller
- PCI-to-PXI Extension Kit
- Ethernet/SCSI/VGA/LCD/ATA-100/IEEE-1394 Interface Module
- High-Speed Digitizer
- Multi-Function DAQ Module
- Arbitrary Waveform Generator
- Digital I/O Module
- Serial Communication Module
- Motion Control Module
- Video Capture Module

ADLINK PXI Products Benefit Reliability and Compatibility

PXI is an ideal deployment platform for measurement and automated test systems. Multiple vendors provide a wide array of instrumentation modules, with over 800 PXI products currently available. ADLINK sets the compatibility tests as a critical procedure of verifying our products, and we invest in PXI products of other vendors for a complete compatibility test. ADLINK has also passed a 6 sigma assessment, and received ISO-9001 as well as ISO-14001 certification to guarantee highly reliable PXI products.

Large Selection of PXI Instruments and Modules

ADLINK TECHNOLOGY INC. provides instrumentation modules for data acquisition, oscilloscopes, waveform generators, and switch multiplexers. In addition to these measurement modules, motion control and vision modules are also available from ADLINK for tight integration of machine automation into PXI chassis. Combining partners' expertise in multimeters, RF analyzers and switches, and other modular instruments, ADLINK satisfies the requirements for various applications. ADLINK employs a strategy that makes test and system deployment easier with standard, low-cost, off-the-shelf technologies.

Cost Effectiveness

With the advantages of PC industry innovation and manufacturing, and by natively leveraging PC technologies of PXI, ADLINK adopts the latest technology and improves cost reduction. With a rich history in measurement and automation, as well as in hardware design and Windows/Linux specialties, ADLINK provides a wide range of PXI products from PXI platforms and high-performance PXI modules to software development tools for tight integration at reasonable prices.

1
Software
Solutions

2
PXI/
CompactPCI
Platforms

3
Modular
Instrument

4
PXI/
CompactPCI
Modules

5
Bus
Interface

6
GPIO
Interface

7
PCI/PCI
Express
DAQ Cards

8
PCI/PCI
Express
DIO Cards

9
PC/104-Plus
Modules

10
ISA DAS/
DIO Cards

11
System
Product

12
Wiring
Termination
Boards

13
Motion, HSL,
Vision, COM
& GEME

14
Remote I/O
Modules

15
Industrial
Computers