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## NI PXIe-6535

### 10 MHz Digital I/O for PXI Express

- 10 MHz maximum clock rate
- 40 MB/s maximum throughput
- Selectable voltage levels of 2.5 and 3.3 V (5 V compatible)
- 32 channels with per-channel directional control
- Synchronous and asynchronous timing modes
- Software compatible with NI 6533 and NI 6534 NI-DAQmx applications



## Overview

The NI PXIe-6535 is a high-speed digital I/O module capable of continuously streaming data up to 40 MB/s over the PXI Express bus.

It features clock rates up to 10 MHz from internal or external sources, selectable voltage levels of 2.5 and 3.3 V (5 V compatible), and per-channel directional control of 32 digital lines. The NI PXIe-6535, based on NI-DAQmx driver software, is compatible with the NI Digital Waveform Editor, so you can interactively create, edit, and import digital waveforms.

The low-cost, high-throughput architecture of the NI PXIe-6535 makes it an ideal solution for interfacing and testing image sensors or display panels. The module is also well-suited for other common digital applications such as pattern I/O, change detection, protocol emulation, or other custom digital interfacing.

## Specifications

### Specifications Documents

- Specifications
- Data Sheet

### Specifications Summary

General	
Product Family	High-Speed Digital I/O
Form Factor	PXI Platform
PXI Bus Type	PXI Hybrid Compatible , PXI Express
Part Number	780695-01
Operating System/Target	Windows

Triggering	Digital
Synchronization Bus (RTSI)	Yes
External Clocking	Yes
Length	21.4 cm
Width	13.1 cm
Height	2 cm
I/O Connector	68-pin VHDCI female
Product Name	PXIe-6535
Analog Input	
Channels	0
Analog Output	
Channels	0
Digital I/O	
Channels	32
Timing	Hardware
Max Clock Rate	10 MHz
Maximum Data Rate / Channel	10 Mbits/s
Logic Levels	2.5 V , 3.3 V
Differential Logic	No
Watchdog Timer	No
Supports Handshaking I/O?	Yes
Supports Pattern I/O?	Yes
Digital Interface	Parallel
Logic State Control	Software Controlled
Supports Hardware Data Compare?	No
Supports Linking/Looping Segments?	No
Supports Data Delay?	No
Offers Dedicated Bandwidth?	Yes

## Pricing



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Note: Unit Prices do not include tax

## NI PXIe-6535 Packages

To use the NI PXIe-6535, you need all items in the diagram below. Select Option 1 if you already own a PXI System, or Option 2 if you do not already own a chassis, controller, or software.

*Roll over the icons below to learn why you need each item in the system*

PXI System

1	1 Cable	NI	Chassis	Controller	Software
Connector Block		<b>PXIe-6535</b>			

NI PXIe-6535 and Accessories Only

- Option 1: **NI PXIe-6535 and Accessories Only**
- Option 2: **PXI System**

<b>NI PXIe-6535</b> - 780695-01	Qty	€ 1,099 each
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### Required Accessories

<b>Connector Block - CB-2162</b> - 778592-01	Qty	€ 309 each
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<b>Cable - Unshielded C68-C68-D4 Cable (1m)</b> - 195949-01	Qty	€ 199 each
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Change Accessories

Learn about all compatible accessories and get recommendations based on your application needs.

### Optional Accessories Show

Estimated Shipping Days: 12 - 20

**Package Price: € 1,607**

Add to Cart >>

Guarantee your price for 30 days (learn more) Instant Quote

Save for Later

Get Started with PXI

Choose from hundreds of specialized instruments to create a PXI System that suits your measurement needs and can scale for future applications. Then, we'll help you choose the right hardware and software to complete your configuration.

Add More Measurements and I/O Modules

Use the PXI Advisor to choose from a variety of modules including analog I/O, digital I/O, switching and more. Then, complete and price the PXI System.

## Add Modules

### Preview a Complete System

View and price a complete PXI configuration including the NI PXIe-6535, chassis, and controller. Starting from the default configuration, you can add modules, accessories, and software and customize your system.

### View and Price a Configured System

Since your device does not have direct signal connectivity, you need a connector block to act as an interface between your sensors/signals and your device. A connector block provides easy access to the inputs and outputs of your hardware. You need a cable to transmit signals between your device and your signal connections on your connector block. The chassis provides rugged, modular housing for the controller and modules and contains the high-performance PXI backplane, which includes the system's data, timing, and triggering buses. The controller runs your application and interfaces with your PXI modules. You need software to interface with your hardware and to collect, analyze, present, and store your measurements. This board is compatible with a variety of programming languages, including LabVIEW, C/C++, Visual Basic, and .NET. LabVIEW provides the easiest integration with all of your NI hardware and is recommended to maximize your hardware investment. You have selected **Germany** as the country where you will use the product(s) (change).

## Services

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### System Assurance Programs

Reduce your setup time and total cost of ownership, and get a system you can use out of the box with National Instruments system assurance programs. System assurance programs include:

- Installation and integration test of all individual hardware
- Courtesy installation of system driver sets and application development environments
- Extended warranty and calibration coverage for up to five years
- Custom documentation plus a custom restore and startup utility

This service is only available for PXI, NI CompactRIO, and NI Compact FieldPoint systems.

- Learn More about System Configuration and Deployment Services [<http://www.ni.com/services/configuration.htm>]
- Customize Your CompactRIO System [<http://ohm.ni.com/advisors/crio>]
- Customize Your Compact FieldPoint System [<http://ohm.ni.com/advisors/cfp>]
- Customize Your PXI System [<http://ohm.ni.com/advisors/pxi>]
- Talk to an Expert about Custom System Configurations [[javascript:openCallMeWindowCTA\(document.referrer,%20'US'\)\]](#)]

### Extended Warranties

National Instruments designs and manufactures all products to minimize failures, however unexpected failures can still occur. Extended warranties provide a fixed economical price at the time of system purchase, covering any repair costs for up to three years. In addition, they offer the following benefits:

- Significant cost savings compared to individual repair incidents
- Fault location, diagnostics, and repair by NI any time the system product fails
- All parts and labor costs covered as well as any adjustments needed to restore the hardware to manufacturing specifications

For more information about your warranty options:

- Learn More about Warranty Services [<http://www.ni.com/services/warranty.htm>]
- Talk to an Expert about Extended Warranties [[javascript:openCallMeWindowCTA\(document.referrer,%20'US'\)\]](#)]
- View Warranty Repair Policies [[http://www.ni.com/services/warranty\\_repair\\_policies.htm](http://www.ni.com/services/warranty_repair_policies.htm)]

### Calibration

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. NI provides manual calibration procedures, services to recalibrate your products, and automated calibration software to calibrate many NI measurement products.

- Learn More about Calibration Services [<http://www.ni.com/services/calibration.htm>]

## Training

NI training is the fastest, most certain route to productivity with NI tools and successful application development.

- Learn More about NI Training and Certification [<http://www.ni.com/training/>]
- Find a Course Near You and View Schedules [<http://sine.ni.com/apps/utf8/nisv.custed>]

## Repair Services

Return your registered product under warranty at no additional labor and parts cost. NI offers fault location, diagnostics, and repair any time the system fails as well as any adjustments needed to restore the hardware to manufacturing specifications.

- Learn More about Repair Services [<http://www.ni.com/services/warranty.htm>]
- Contact NI to Obtain a Return Material Authorization (RMA) Form and Shipping Instructions [[http://sine.ni.com/apps/utf8/nicc.call\\_me](http://sine.ni.com/apps/utf8/nicc.call_me)]
- View Your RMA Support Request Status Online [<http://www.ni.com/support/servicereq/>]
- Register Your Product [<http://www.ni.com/register>]

## Technical Support

[ni.com/support](http://www.ni.com/support) [<http://www.ni.com/support/>]

## Resources

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### Additional Product Information

- Manuals (3)
- Dimensional Drawings (4)
- Product Certifications

### Related Information

- Demonstration Video: PXI Express Mixed-Signal Instruments
- Demonstration Video: LCD Testing with NI PCIe-6536
- High-Speed Digital and Logic Analyzer Fundamentals
- Mixed-Signal Instruments for PXI Express Resources (White Papers, Demos)
- Example - Streaming with NI 6535/36/37 Using the NI-DAQmx Driver
- PCI Express - Expanding the World of Virtual Instrumentation