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Find the *National Instruments TB-2627* at our website: ***Click HERE***

Technical Sales
United States
(866) 531-6285
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NI PXI-2527

32-Channel (2-Wire), 300 V Multiplexer Switch

- Up to 300 VDC/300 VAC, CAT I
- 64x1 1-wire, 32x1 2-wire, or 16x1 4-wire multiplexer
- Up to 2 A switching/2 A carry
- Onboard relay counting
- Deterministic operation with hardware triggers
- 120 cycles/s



Overview

The National Instruments PXI-2527 is a high-voltage multiplexer switch module designed for medium- to high-density automated test systems. With a switching capacity of up to 300 VDC/300 VAC andup to 2 A, the NI PXI-2527 is the perfect front end for the NI 4070 and NI 4072 digital multimeters, offering simple channel expansion for voltage, current, resistance, capacitance, or inductance measurements. Multiple-channel configurations are available including 64x1 1-wire, 32x1 2-wire, and 16x1 4-wire. Each channel,using robust electromechanical relays, is capable of scanning up to 120 channels/s. A cold-junction compensation (CJC) sensor is also included in the front-mounting terminal block to assist in thermocouple scanning applications.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General	
Product Family	Switches
Form Factor	PXI Platform
PXI Bus Type	PXI Hybrid Compatible
Part Number	778572-27
Operating System/Target	Real-Time , Windows
LabVIEW RT Support	Yes
Triggering	Digital

Synchronization Bus (RTSI)	No
External Clocking	Yes
Length	16 cm
Width	10 cm
Height	2 cm
I/O Connector	100-pin HDI
Power Requirement for +3.3V Rail	0.75 A
Power Requirement for +5V Rail	1.2 A
Power Requirement for +12V Rail	0 A
Power Requirement for -12V Rail	0 A
Slot Two Module	Yes
Module Width	1
MXI Compatible	Yes
Product Name	NI PXI-2527
Switches	
Switch Type	Multiplexer
Max Switching Voltage DC (Pollution Deg. 2)	300 VDC
Maximum Switching Voltage AC	300 Vrms
Max Switching Current	2 A
Maximum Carry Current	2 A
Maximum Switching Power	60 W
Bandwidth	30 MHz
Relay Type	Electromechanical
Relay Count Tracking	Yes
Voltage Category	CAT I
Product Certifications	C-Tick , FCC Part 15 , UL - Product Safety , CE , CAN/CSA , IEC
Path Resistance (Typical)	1 Ohm
Thermal EMF	2.5 µV
Scan Rate	120 cycles/s
Multiplexer Config Wire Mode	1-wire , 4-wire , 2-wire
Multiplexer Config Banks	1

Pricing

NI PXI-2527 Packages

To use the NI PXI-2527 , 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 Terminal Block **NI PXI-2527** Chassis Controller Software

NI PXI-2527 and Accessories Only

- Option 1: **NI PXI-2527 and Accessories Only**
- Option 2: **PXI System**

NI PXI-2527 - 778572-27 Qty $ 1,600 each

Required Accessories

Terminal Block - Screw Terminal

TB-2627 - 779358-01 Qty $ 287 each

Optional Accessories

Estimated Shipping Days: 10 - 15

Package Price: $ 1,887

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 PXI-2527, 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

Services

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]

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/tacs/app/fp/p/ap/ov/pg/1/]

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]
- 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/]

Resources

Additional Product Information

- Dimensional Drawings
- Product Certifications

Related Information

- Switch Product Selection Guide
- NI Switch Executive Switch Management Software

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