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WE BUY USED EQUIPMENT

12-Channel, 300 V CAT II, 600 V CAT I Multiplexer

NI PXI-2584 NEW!

- Dual 6x1 1-wire, 12x1 1-wire, 6x1 2-wire, interleaved 11x1 2-wire multiplexer configuration
- · Switching capacity
 - Up to 300 V CAT II, 600 V CAT I
 - Up to 0.5 A switching/0.5 A carry
 - Up to 10 W
- 600 channels/s
- · Onboard relay counting
- Fully software programmable
- 32,000-step scanlist for deterministic scanning
- Tight synchronization with instruments through hardware triggers

Operating Systems

- Windows 2000/XP
- Linux®

Recommended Software

- NI Switch Executive
- LabVIEW
- LabWindows/CVI
- Measurement Studio

Other Compatible Software

- Visual Basic
- C/C++

Driver Software (included)

- NI-SWITCH
- NI-DAQmx

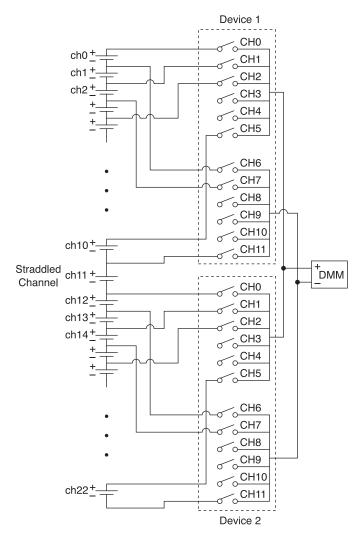


Overview

The National Instruments PXI-2584 is a high-voltage multiplexer switch in a single-slot, 3U PXI module. With a CAT II certification at 300 V, it is capable of routing general-purpose ATE loads or high-voltage, low-current signals. The 600 V CAT I channel-to-ground isolation on the NI PXI-2584 makes it ideal for fuel cell and battery stack applications. You also can use the module in multimodule configurations for taking measurements on hundreds of channels. The CAT I and CAT II safety ratings combined with UL safety certification make it ideally suited for high-voltage ATE systems that include the NI PXI-4071 1000 V digital multimeter. The reed relays in the PXI-2584 also ensure longer lifetimes and faster actuation times for test equipment.

Interleaved Topology for Maximum Channel Count

Interleaved topology is a method to increase channel count when measuring potentials that are on a stack such as battery stacks and fuel cell stacks. In traditional 2-wire topologies, each channel would put two wires across each component under test, which would limit the PXI-2584 to six differential channels. By putting each single input pin on the front connector at points in between potentials on a stack, the channel count is extended from six to 11 2-wire channels. In addition to maximizing channel count on a module, the topology offers a free "straddle" channel when testing battery stacks over multiple modules.



The PXI-2584 Interleaved Topology Maximizes Channel Count



Relay Count Tracking

The PXI-2584 counts relay closures on each of its high-voltage relays. Relay counts are incremented each time a relay is actuated. The counts, stored onboard the module, are retrievable programmatically and can be used for predictive maintenance to reduce unexpected system downtime.

Automatic Scanning

The PXI-2584 maximizes throughput in automated test applications by the use of scanning. Scanning improves throughput by downloading a list of up to 32,000 connections to the switch and cycling through the list using an event (trigger) without any interruption from the host processor. Scanning is most efficiently accomplished by mating the PXI-2584 with other instruments such as the PXI-4071 1000 V FlexDMM, which issues a trigger after each measurement is complete.

Software

All National Instruments PXI switch modules are shipped with NI-SWITCH, an IVI-compliant driver offering complete functionality for all switch modules. For additional assistance in configuring, programming, and managing higher-channel-count switching systems, NI Switch Executive software offers an easy-to-use, intelligent switch management and visual routing environment. Use the NI-SWITCH Soft Front Panel for simple relay operations or debugging switch code/execution.

Ordering Information

NI PXI-2584	778572-84
Accessories and Software	
Connector/Backshell Kit	779168-02
NI Switch Executive	
Development System	778546-01
Deployment Engine	778548-00

BUY NOW!

For complete product specifications, pricing, and accessory information, call (800) 813 3693 (U.S.) or go to ni.com/switches.

Specifications

Relay Characteristics

Configurations	6x1 2-wire, interleaved
Contact materials	11x1 2-wire (battery test) Rhodium
Maximum switching voltage	Tilloululli
AC	600 VAC _{pk}
DC	
Maximum switching current	
Maximum carry current	
Maximum switching power	
DC path resistance (1-wire path)	
Initial	<1.1 Ω
End of life	>2 Ω
Minimum switching capacity	0.5 V or 1 mA
Dynamic Characteristics	
Maximum scan rate	
Relay operate time	000 (паппстз/ з
Typical	0.4 ms
Maximum	
Expected relay life	

Note: Certain applications may require additional time for proper settling.

For information about including additional settling time, refer to the NI Switches Help.

(1 V at 10 mA resistive)............... 3x108 cycles

capacitive 1.8x107 cycles

capacitive 7x10⁶ cycle

Physical

Mechanical

600 V at 7 mA 90 pF

600 V at 16.5 mA 90 pF

•	
Relay type	Reed
I/O connector	16 position,
	MINI-COMBICON plug
Dimensions	Single PXI slot, 3U

Environment

Indoor use only

Operating temperature	0 to 55 °C
Storage temperature	-20 to 70 °C
Relative humidity	5 to 85% noncondensing
Pollution degree	2
Approved at altitudes up to 2000 m.	

12-Channel, 300 V CAT II, 600 V CAT I Multiplexer

Safety and Compliance

Safety

This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CAN/CSA-C22.2 No. 61010-1

Note: For UL and other safety certifications, refer to the product label or visit **ni.com/certification**, search by model number or product line, and click the appropriate link in the Certification column.

Electromagnetic Compatibility

This product is designed to meet the requirements of the following standards of EMC for electrical equipment for measurement, control, and laboratory use:

- EN 61326 EMC requirements; Minimum Immunity
- EMC unprotected

CE Compliance

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

- 73/23/EEC; Low-Voltage Directive (safety)
- 89/336/EEC; Electromagnetic Compatibility Directive (EMC)

Note: Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit **ni.com/certification**, search by model number or product line, and click the appropriate link in the Certification column.

Waste Electrical and Electronic Equipment (WEEE)

EU Customers: At the end of their life cycle, all products must be sent to a WEEE recycling center. For more information about WEEE recycling centers and National Instruments WEEE initiatives, visit **ni.com/environment/weee.htm**.

NI Services and Support



NI has the services and support to meet your needs around the globe and through the application life cycle – from planning and development through deployment and ongoing maintenance. We offer services and service levels to meet customer requirements in research, design, validation, and manufacturing. Visit ni.com/services.

Training and Certification

NI training is the fastest, most certain route to productivity with our products. NI training can shorten your learning curve, save development time, and reduce maintenance costs over the application life cycle. We schedule instructor-led courses in cities worldwide, or we can hold a course at your facility. We also offer a professional certification program that identifies individuals who have high levels of skill and knowledge on using NI products. Visit ni.com/training.

Professional Services

Our Professional Services Team is comprised of NI applications engineers, NI Consulting Services, and a worldwide National Instruments Alliance Partner program of more than 600 independent consultants and



integrators. Services range from start-up assistance to turnkey system integration.

Visit ni.com/alliance.

OEM Support

We offer design-in consulting and product integration assistance if you want to use our products for OEM applications. For information about special pricing and services for OEM customers, visit ni.com/oem.

Local Sales and Technical Support

In offices worldwide, our staff is local to the country, giving you access to engineers who speak your language. NI delivers industry-leading technical support through online knowledge bases, our applications engineers, and access to 14,000 measurement and automation professionals within NI Developer Exchange forums. Find immediate answers to your questions at ni.com/support.

We also offer service programs that provide automatic upgrades to your application development environment and higher levels of technical support. Visit ni.com/ssp.

Hardware Services

NI Factory Installation Services

NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with ni.com/pxiadvisor.

Calibration Services

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit ni.com/calibration.

Repair and Extended Warranty

NI provides complete repair services for our products. Express repair and advance replacement services are also available. We offer extended warranties to help you meet project life-cycle requirements. Visit ni.com/services.



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