



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

Medium-Power General-Purpose SPST Relays

NI PXI-2568

- 31 independent SPST relays
- Maximum switch capacity
 - Up to 150 VDC, 150 VAC
 - Up to 2 A switching/2 A carry
- Latching relays
- 32,000-step scanlist for deterministic scanning
- Fully software programmable
- 145 cycles/s
- Tight synchronization with instruments through hardware triggers

Operating Systems

- Windows 2000/NT/XP

Recommended Software

- LabVIEW™
- LabWindows™/CVI™
- Measurement Studio™ for Visual C++
- NI Switch Executive

Other Compatible Software

- Visual Basic
- C/C++

Driver Software (included)

- NI-SWITCH

Compliance

- UL
- CE

NEW



Overview and Applications

The National Instruments PXI-2568 is a general-purpose 31-channel switch module, featuring independent SPST (Form A) armature relays. Each relay is latching with very low on-resistance and low thermal offsets. The NI PXI-2568 can switch up to 2 A at 30 VAC/30 VDC. With an efficient coupling of voltage/current capability and relay density, the PXI-2568 is ideal for automated test equipment (ATE) loads or for controlling heaters, lights, and fans.

Automatic Scanning

The PXI-2568 is able to maximize 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-2568 with an instrument, such as the NI PXI-4070 6½-digit FlexDMM, which issues a trigger after each measurement.

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.

Ordering Information

NI PXI-2568778572-68
Includes switch module and NI-SWITCH driver software

Accessories

NI Switch Executive
Development System778546-01
Deployment Engine778548-00

BUY ONLINE!

Visit ni.com/info and enter `pxi2568`.



Medium-Power General-Purpose SPST Relays

Specifications

Input Characteristics

Maximum switching voltage	
Channel-to-ground.....	150 V, CAT I
Channel-to-channel	150 V
Maximum switching/carry current.....	2 A
Simultaneous channels at maximum switching current (25 °C)	31
Maximum switching power (per channel).....	60 W, 62.5 VA
Typical DC path resistance	
Initial	<0.15 Ω
End of life	≥1 Ω
Thermal EMF	≤12 μV
Bandwidth (-3 dB).....	≥40 MHz

Dynamic characteristics

Maximum speed.....	145 cycles/s
Relay operate time	
Typical.....	1 ms
Maximum.....	3.4 ms
Expected relay life	
Mechanical	100,000,000 cycles
Electrical	
10 VDC, 100 mADC, resistive.....	2,500,000 cycles
10 VDC, 1 ADC, resistive.....	1,000,000 cycles
30 VDC, 1 ADC resistive.....	500,000 cycles
60 VDC, 1 ADC resistive.....	100,000 cycles

Physical

Relay types	electromechanical, latching
Contact material	palladium-ruthenium, gold covered
I/O connectors.....	62-pin D-Sub
Dimensions.....	10 by 17.4 cm (3.9 by 6.9 in.) Single-slot, 3U

Environment

Operating temperature.....	0 to 55 °C
Storage temperature.....	-20 to 70 °C
Relative humidity	5 to 85% noncondensing
Pollution degree	2
Indoor use only	

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 3111-1, UL 61010B-1
- CAN/CSA C22.2 No. 1010.1

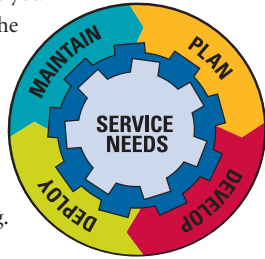
CE Compliance

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

Low-voltage Directive (safety).....	73/23/EEC
Electromagnetic Compatibility Directive (EMC)	89/336/EEC

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 NI 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.



ni.com • (800) 433-3488

National Instruments • Tel: (512) 683-0100 • Fax: (512) 683-9300 • info@ni.com

© 2004 National Instruments Corporation. All rights reserved. Product and company names listed are trademarks or trade names of their respective companies.



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com