

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

**Visit our website - *Click HERE***

# High-Density General-Purpose SPDT Relays

## NI PXI-2570

- 40 independent SPDT relays
- Maximum switch capacity
  Up to 100 VDC, 100 VAC
  Up to 1 A switching/1 A carry
- Latching relays
- 32,000-step scan list for deterministic scanning
- Fully software programmable
- 145 cycles/s
- Tight synchronization with instruments through hardware triggers

### Operating Systems
- Windows 2000/NT/XP

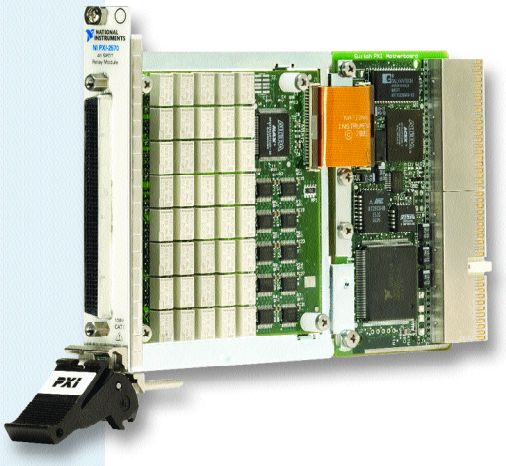
### Recommended Software
- LabVIEW™
- LabWindows™/CVI™
- Measurement Studio™
- NI Switch Executive

### Other Compatible Software
- Visual Basic
- C/C++

### Driver Software (included)
- NI-SWITCH

### Compliance
- UL
- CE

NEW



## Overview

The National Instruments PXI-2570 is a 40-channel, general-purpose switch module. Featuring independent SPDT (Form C) relays, the NI PXI-2570 maximizes relay density in a single PXI slot. Each relay contains a normally closed (NC), normally open (NO), and common (COM) terminal and can handle up to 100 VDC/100 VAC or up to 1 A of current. With 40 channels per module, you can switch several hundred ATE loads in a single PXI chassis or thousands of channels in a multiple-chassis configuration.

## Automatic Scanning

The PXI-2570 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-2570 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-2570 .....778572-70
Includes switch module, NI-SWITCH driver software.

**Accessories**
NI Switch Executive
Development System .....778546-01
Deployment Engine .....778548-00

***BUY ONLINE!***
*Visit ni.com/info and enter pxi2570.*

NATIONAL INSTRUMENTS

Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

# High-Density General-Purpose SPDT Relays

## Specifications

### Input Characteristics

Maximum switching voltage
- Channel-to-ground ..... 100 V, CAT I
- Channel-to-channel ..... 100 V

Maximum current
- (switching or carry, per channel) ..... 1 A

Simultaneous channels at
- maximum current (55 °C) ..... 40

Maximum switching power
- (per channel, resistive) ..... 60 W, 62.5 VA

Typical DC path resistance (channel-to-common)
- Initial ..... <0.5
- End of life ..... ≤1

Thermal EMF ..... ≤12 µV

Bandwidth (-3 dB, typical at 23 °C) ..... ≤40 MHz

### Dynamic Characteristics

Maximum speed ..... 145 cycles

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 ..... 200-pin LFH Matrix 50 receptacle
Dimensions ..... 10 by 17.4 cm (3.9 by 6.9 in.)

### Environment

Operating temperature ..... 0 to 55 °C
Storage temperature ..... -40 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:

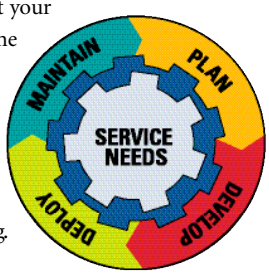
Low-Voltage Directive (safety) ..... 73/23/EEC
Electromagnetic Compatibility
Directive (EMC) ..... 89/336/EEC



Artisan Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

# 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.

NATIONAL INSTRUMENTS™ Certified Alliance Partner

## 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.

NATIONAL INSTRUMENTS™

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 Scientific - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisan-scientific.com

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP