



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

64-Channel External Relay Driver

NI PXI-2567, NI SCXI™-1167

- Controls up to 64 single-side stable relays (or 32 2-coil latching relays)
- Accepts internal and external power
 - Up to 50 V
 - Up to 600 mA per channel
- High-power protection circuitry
- Hardware or software scanning
- 32,000-step scan list for deterministic scanning
- Programmable switching delay

Applications

- High-current relays
- RF relays
- Small DC motors
- Existing embedded relays

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

NEW



Overview

The National Instruments PXI-2567 and SCXI-1167 are designed to be 64-channel, multipurpose relay drive modules, capable of driving many types of external relays. The relay driver is the ideal choice when the current and voltage requirements for relays exceed those found in existing relay modules (or for relays embedded in a test system). High-current, high-voltage, or multipole RF switches all fit into the realm of possibilities. The NI PXI-2567 and NI SCXI-1167 can also drive small DC motors or other inductive relay coils.

Internal and External Power Support

The PXI-2567 and SCXI-1167 can provide up to 50 V or 600 mA of drive capacity per channel when connected to an external power supply. Without an external power supply, the PXI-2567 can source up to 1.25 A from the 5 V pin or 500 mA from the 12 V pin provided by the PXI backplane. The SCXI-1167 can supply up to 750 mA at 5 V without an external power source. No one channel can drive more than 600 mA with either an internal or external source, and total module current is limited to 25 A of simultaneous drive.

Protection Circuitry

The eight banks of eight drivers in the PXI-2567 and SCXI-1167 protect against overvoltage and overcurrent conditions. When the condition clears, the channel is automatically reset so no disassembly of the module is required. A fly-back diode is also included to protect against damage from inductive loads.

Automatic Scanning

The PXI-2567 and SCXI-1167 are 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 modules 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-2567 or SCXI-1167 with an instrument, such as the NI PXI-4070 FlexDMM, that issues a trigger after each measurement.

Software

All National Instruments PXI and SCXI 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.



64-Channel External Relay Driver

Ordering Information

NI PXI-2567778572-67
NI SCXI-1167776572-67
Includes NI-SWITCH driver software and one mating connector and backshell kit.

BUY ONLINE!

Visit ni.com/info and enter *pxi2567* and/or *scxi1167*.

Specifications

Input Characteristics

| | |
|---------------------------------|---|
| Channels..... | 64 single-coil nonlatching relay drivers, 32, 2-coil latching relays |
| Max drive voltage..... | 50 V |
| Max drive current..... | 600 mA |
| Maximum current per module..... | 25 A |

Internal Drive Power

| | |
|----------------|----------------------------|
| PXI-2567..... | 5 V, 1.25 A or 12 V, 0.5 A |
| SCXI-1167..... | 5 V, 0.75 A |

Dynamic Characteristics

| | |
|------------------------------|------------------|
| Maximum operating speed..... | 150 operations/s |
|------------------------------|------------------|

Physical

| | |
|--------------------|--|
| Dimensions | |
| PXI-2567..... | 2 x 10 x 16 cm (.8 x 3.9 x 6.4 in.) |
| SCXI-1167..... | 3.0 x 17.2 x 20.3 cm (1.2 x 6.9 x 8.0 in.) |
| I/O connector..... | 78 pin D-Sub |

Environment

| | |
|-------------------------------------|------------------------|
| Operating temperature..... | 0 to 55 °C |
| Storage temperature..... | -40 to 70 °C |
| Relative humidity..... | 5 to 85% noncondensing |
| Pollution degree..... | 2 |
| Approved at altitudes up to 2,000 m | |
| 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 CE

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 |

Global Services and Support

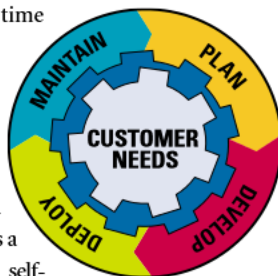
NI has the services and support to meet your needs around the globe and through the application life cycle – from planning and development through deployment and ongoing maintenance – and tailored for customer requirements in research, design, validation, and manufacturing. We have direct operations in more than 37 countries and distributors in another 12 locations. Our local sales and support representatives are degreed engineers, ready to partner with you to find solutions that best fit your needs.

Local Sales and Technical Support

In offices around the globe, our staff is local to the country so that you have access to field engineers who speak your language and are available to consult on your unique needs. We also have a worldwide support organization staffed with Applications Engineers trained to quickly provide superior technical assistance. Use our online Request Support interface (ni.com/support) to define your question, then speak to or e-mail an Applications Engineer, or access more than 14,000 worldwide measurement and automation professionals within NI Developer Exchange Discussion Forums. ni.com/support also provides immediate answers to your questions through self-help troubleshooting, product reference, and application development resources. For advanced technical support and software maintenance services, sign up for Premier Support, a program that provides expanded hours of support availability and expedited phone/e-mail response time (typically four business hours).

Training and Certification

NI recognizes that both initial instruction and ongoing education contribute to your success. NI provides a variety of training alternatives, from self-paced tutorials and interactive CDs, to worldwide hands-on courses taught by experienced instructors – all designed so that you can choose how to learn about our products. Further, NI offers certifications acknowledging individual expertise in working with NI products and technologies. Visit ni.com/training for more information.



Professional Services

Our Professional Services team consists of National Instruments Applications Engineers, NI Consulting Services, and the worldwide National Instruments Alliance Partner Program (a network of 600 independent consultants and integrators). Our Professional Services team can offer services ranging from basic start-up assistance and collaborative development with your engineers, to turnkey system integration and maintenance of your system.



In addition to our NI Alliance Partners, we have developed global relationships with many industry partners that range from computer software and hardware companies, such as Microsoft, Dell, Siemens, and Tektronix. By collaborating with these companies, you receive a complete spectrum of solutions – from components to turnkey systems. Find the Alliance Partner directory at ni.com/alliance

Product Services

NI GPIB products are warranted against defects in workmanship and material for one year from the date of shipment. To help you meet project life-cycle requirements, NI offers extended warranties for an additional charge. NI provides complete repair services for our products. Express repair and advanced replacement services are also available. Or, order your software and hardware installed in PXI and PXI/SCXI™ systems with NI Factory Installation Services.

Ordering Made Easy

Visit ni.com/products to browse product specifications, make comparisons, or access technical representatives via online chat or telephone. Worldwide customers can use a purchase order or credit card to buy in local currency and receive direct shipments from local NI offices. Our North American Customer Service Representatives are available Monday through Friday between 7 a.m. and 7 p.m. Central Time. Outside North America, please contact the NI office in your country.

Order Status and Service Requests

National Instruments brings you real-time status on current orders at ni.com/status. Similarly, find out the status of open technical support incidents or hardware repair requests at ni.com/support/servicereq



ni.com • (800) 433-3488

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

© 2003 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