Overview

National Instruments offers rugged, low-noise SCXI chassis to house, power, and control your SCXI modules and conditioned signals. The unique SCXI chassis architecture includes the SCXIbus, which routes analog and digital signals and acts as the communication conduit between modules. Chassis control circuitry manages this bus, synchronizing the timing between each module and the DAQ device. With this architecture, you can scan input channels from several modules in several chassis at rates up to 333 kS/s for every DAQ device.

The versatility of SCXI lies in its various chassis options and expandability. You can choose from a number of different standard AC or DC power options. If you move your system to another country, you can easily reconfigure the system for any of the other AC power configurations.

Chassis Control Circuitry

Each SCXI chassis includes control circuitry. This circuitry handles all signal routing on the SCXIbus. During high-speed analog input operations, it controls which input signals are connected to the bus and routed back to the DAQ device. It also ensures tight synchronization between the SCXI modules and the DAQ device.

Expandability

If your initial system requires more SCXI modules than one chassis can hold, or your system requirements change, simply add another chassis. With the SCXI expandable architecture, you can daisy-chain up to eight chassis to a single multifunction DAQ device. Whether you are using a single-chassis or multichassis system, you can still acquire data at rates up to 333 kS/s.

Power Options

These SCXI chassis offer a number of standard AC power options. Simply choose the option for your country or a country compatible with your power specifications. If you move your system to another country, you can easily reconfigure the system for any of the other AC power configurations.
SCXI Chassis

**SCXI-1000**
The NI SCXI-1000 is a 4-slot chassis available with a number of standard AC power options. This chassis is ideal for single-chassis or low-channel-count applications. If your application grows, you can daisy-chain two or more SCXI-1000 chassis. You can also use off-the-shelf true sine wave DC-to-AC power inverters to power AC chassis with a DC power supply.

**SCXI-1000DC**
The SCXI-1000DC is a 4-slot chassis that accepts DC power. You can power it with any 9.5 to 16 VDC power supply, or use the optional SCXI-1382 12 VDC battery pack (shown in the picture). You should also consider the optional SCXI-1383 power supply/float charger to operate the chassis from an AC power outlet when necessary. This chassis is ideal for portable applications or other times when AC power is not always available.

**SCXI-1001**
The SCXI-1001 is a 12-slot chassis with a number of standard AC power options. As in the SCXI-1000 Series, you can daisy-chain up to eight chassis to acquire or control up to 3,072 channels with a single DAQ device. This chassis is ideal for high-channel-count systems. You can use off-the-shelf true sine wave DC-to-AC power inverters to power AC chassis with a DC power supply.

**Ordering Information**
NI SCXI-1000..............................................................776570-0P
NI SCXI-1000DC ........................................................776570-00
NI SCXI-1001..............................................................776571-0P

1To choose your power option, replace the “P” with the appropriate number for your country’s power:
1 – U.S. 120 VAC
2 – Swiss 220 VAC
3 – Australian 240 VAC
4 – Universal Euro 240 VAC
5 – North American 240 VAC
6 – United Kingdom 240 VAC
7 – Japanese 100 VAC

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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.

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