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# VXI Getting Started

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# Contact

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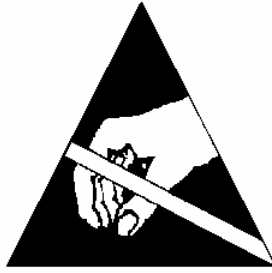
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## Handling Precautions for Electronic Devices Subject to Damage by Static Electricity

PXI and PCI modules are susceptible to Electronic Static Discharge (ESD) damage. When transporting, place the module in conductive (anti-static) envelopes or carriers. Open only at an ESD-approved work surface. An ESD safe work surface is defined as follows:

- The work surface must be conductive and reliably connected to an earth ground with a safety resistance of approximately 250 kilohms.
- The surface must NOT be metal. A resistance of 30–300 kilohms per square inch is suggested.

Ground the frame of any line-powered equipment, chassis, test instruments, lamps, soldering irons, etc., directly to the earth ground. To avoid shorting out the safety resistance, ensure that the grounded equipment has rubber feet or other means of insulation from the work surface.

Avoid placing tools or electrical parts on insulators. Do NOT use any hand tool that can generate a static charge, such as a non-conductive plunger-type solder sucker. Use a conductive strap or cable with a wrist cuff to reliably ground to the work surface. The cuff must make electrical contact directly with the skin; do NOT wear it over clothing.

**Note:** Resistance between the skin and the work surface is typically 250 kilohms to 1 megohm using a commercially-available personnel grounding device.

Avoid circumstances that are likely to produce static charges, such as wearing clothes of synthetic material, sitting on a plastic-covered stool (especially when wearing woolen material), combing the hair, or making extensive pencil erasures. These circumstances are most significant when the air is dry.

When testing static sensitive devices, ensure DC power is ON before, during, and after application of test signals. Ensure all pertinent voltages are switched OFF while circuit boards or components are removed or inserted.

# Revision History

Rev	Date	Section	Description
1	01-04-04	All	Initial Release
2	05-17-05	All	New release updating all sections and information



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# Introduction

The VXI Getting Started Manual and the Product CD contain the resources needed to get you up and running with your VXI instrument. This manual is intended for customers using Microsoft Windows version 95, 88, 2000, and XP. For customers using other operating systems, please review this document and then contact ZTEC Instruments for additional assistance if needed.

## Software Installation



### Step-by-Step

To install the software:

1. Install Virtual Instrumentation Software Architecture (VISA) on your computer.

**Note:** *You must have VISA installed on your system. VISA can be obtained from National Instruments or Agilent.*

*For customers using a National Instruments program development environment, such as LabWindows or LabVIEW, NI-VISA will most likely be already installed on your system. To check for an NI-VISA installation, open the National Instruments Measurement and Automation Explorer (NI-MAX) and check for an NI-VISA entry in the “Software” directory.*

2. Copy the contents of the Product CD to your computer:

```
[product cd]:/zt...vxi/  
[local drive]:/ztec/
```

3. The instrument drivers are located in the following directory:

```
[local drive]:/ztec/zt...vxi/drivers/cvi
```

4. Programming examples are located in the following directory:

```
[local drive]:/ztec/zt...vxi/examples
```

5. Manuals are located in the following directory:

```
[local drive]:/ztec/zt...vxi/manuals
```

# VXI Hardware Installation



## Step-by-Step

To install the VXI hardware:

1. Power off the VXI chassis.
2. Set the logical address dip switches, as required.
3. With a grounding strap properly connected, slide the ZTEC VXI module into an available slot on the chassis until the module seats in the chassis.
4. Once the module is seated, tighten the captive screws at the top and bottom of the module to secure it into the mainframe.

# Installation Confirmation



## Step-by-Step

To confirm your installation and device:

Power ON the chassis and then run the *Resource Manager* software provided with the VXI controller.

**Note:** Refer to the VXI controller documentation for more details. For GPIB-VXI controllers, *Resource Manager* automatically runs at power ON, displaying the connected VXI modules. For National Instruments VXI controllers, the *Measurement and Automation Explorer* software shows the connected VXI modules in the *Devices and Interfaces* folder.

# Contacting Technical Support

We are very interested to hear from you. Please do not hesitate to contact ZTEC Instruments technical support at:

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