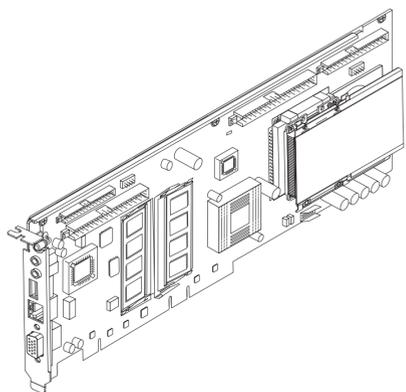




# SunPCi III Quick Start Installation Guide



## 2 Supported Systems

The SunPCi III card contains the Mobile AMD Athlon XP Processor. You can install the card into a universal PCI 33/66-MHz 32/64-bit slot.

UltraSPARC Systems	SunPCi III Cards
Sun Blade™ 150	1*
Sun Blade 1500 and 2000	2†
Sun Blade 2500	3**
Sun Fire™ V210 and V240	1
Sun Fire 280R	1***
Sun Fire V440 and V480	2†

\* Due to power constraints, you can only use 1 SunPCi III card, including any optional backplates, in the Sun Blade 150. You **cannot** use 2 SunPCi III cards in any configuration in the Sun Blade 150.

† You can install and use up to 3 SunPCi III cards if you do not use the optional USB/Firewire Card and Backplate and use less than 1 Gbyte of memory for each card.

\*\* You can install and use up to 5 SunPCi III cards if you do not use the optional USB/Firewire Card and Backplate and use less than 1 Gbyte of memory for each card.

\*\*\* You can install and use up to 2 SunPCi III cards if you do not use the optional USB/Firewire Card and Backplate and use less than 1 Gbyte of memory for each card.

**Note** -Several End of Life (EOL) platforms were supported in earlier versions of SunPCi III, including the Sun Blade 100 and 1000, Sun Enterprise™ 220R, 250, 420R, and 450. SunPCi III 3.2.1 works with all these platforms even though they are EOL. Refer to earlier SunPCi III documentation for the number of cards allowed for each platform.

## 3 Installation Process

- If you purchased SunPCi III hardware separately, proceed to Panel 5, "Install Additional SODIMM."
- If the newest SunPCi III hardware and software was preinstalled on your system, you do not need to use this document. Proceed to the *SunPCi III 3.2.1 User's Guide*.
- If you have previous SunPCi hardware and software on your system, proceed to the next step in this document.

To install SunPCi III hardware, you need the following:

- SunPCi III card
- UltraSPARC system with at least one PCI slot
- Grounding wrist strap (included in the SunPCi III package)
- Phillips screwdriver (not included)

If you have installed a previous version of SunPCi hardware and software, you need to perform the following tasks in this order:

1. Remove all previous SunPCi software (version 1.x or 2.x). If upgrading to a newer version of 3.x software, remove old 3.x software.
2. Remove all previous VNC software.
3. Remove all SunPCi I and II cards, since they are not supported when used with SunPCi III cards.
4. Install the SunPCi III hardware.
5. Install and configure the SunPCi III software.
6. Install Microsoft Windows or Linux software.

**Note** - Repeat this process to install multiple cards. Refer to the *SunPCi III 3.2.1 User's Guide* for more information.

## 4 Remove Old Software and Hardware

*Removing Old Software*

1. **Become superuser.**
2. **Type the following command to remove old SunPCi software:**  

```
# /usr/sbin/pkgrm SUNWspci3  
(or SUNWspci2 for SunPCi II or sunpci for SunPCi I)
```
3. **Press Return.**  
You are asked whether you want to remove the package currently installed.
4. **Type y and press Return.**  
You are told that scripts will be executed with superuser permission during the package removal.
5. **Type y and press Return.**  
Files scroll by as they are removed. When completed, a message appears on the screen saying software removal was successful.

6. **Exit superuser.**

**Note** - Remove all old VNC software (SUNWspvnc) on your system.

*Removing Old Hardware*

1. **Power off your system.**
2. **Attach the grounding wrist strap.**  
Attach the copper end of the wrist strap to the metal frame of the system or to the casing of the power supply. Attach the copper to bare metal and do not attach to any painted surface or labels on the power supply.
3. **Remove the system cover.**
4. **Remove all SunPCi I and II cards.**  
Refer to your system documentation for instructions about removing a PCI card.

## 5 Install Additional SODIMM

SODIMM is the memory on your SunPCi card. To continue with the installation preparation, do the following:

1. **Remove the SunPCi III card from its antistatic bag.**  
Hold the card by the edges. Place it on the antistatic bag or on an antistatic mat.
2. **If you purchased additional SODIMM, install it now. If you did not purchase additional SODIMM, skip this step.**  
The SunPCi III card ships a standard configuration of one 256-Mbyte SODIMM installed. You can purchase and install a second SODIMM if needed. Refer to the *SunPCi III SODIMM Installation Guide* for more information.

**Caution** - The SunPCi III card operates only with the SODIMMs supplied by Sun. If you install a SODIMM not supplied by Sun or a Sun reseller, your warranty becomes invalid.

## 6 Identify and Prepare PCI Slots

To locate the PCI slots on your specific system, refer to the system documentation. *Do not install the SunPCi III cards yet.*

You need one PCI slot for the SunPCi III main card.

You need another PCI slot if you plan to use the USB/Firewire Backplate and another PCI slot if you plan to use the Serial/Parallel Port Backplate.

If you use the SunPCi main card and the USB/Firewire and Serial/Parallel Port options, you need three PCI slots and two of the slots must be adjacent.

**Note** - Installation of the SunPCi III main card and optional backplates requires careful placement of all cards into a small space.

- **Use a Phillips screwdriver to remove the filler panels.**  
Remove the filler panels only from the PCI slots you plan to use.

## 1 Start

This guide provides an overview of the tasks required to install the SunPCi™ III hardware and software. Topics covered in this guide include the following:

- Start
- Supported Systems
- Installation Process
- Remove Old Software and Hardware
- Install Additional SODIMM
- Identify and Prepare PCI Slots
- Install the Optional Serial/Parallel Port Backplate
- Install the Optional USB/Firewire Backplate
- Install the SunPCi III Card
- Complete the Installation
- Install the Solaris™ Patches
- Install the SunPCi Software From the CD
- Install the SunPCi Software From the Web
- Technical Assistance

Copyright 2004 Sun Microsystems, Inc. All rights reserved. Use is subject to license terms. Third-party software, including font technology, is copyrighted and licensed from Sun suppliers. Portions may be derived from Berkeley BSD systems, licensed from U. of CA. Sun, Sun Microsystems, the Sun logo, Solaris, SunVTS, SunSolve Online, Sun Enterprise, Sun Blade, SunPCi, and Sun Fire are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and other countries. Federal Acquisitions: Commercial Software—Government Users Subject to Standard License Terms and Conditions.

Copyright 2004 Sun Microsystems, Inc. Tous droits réservés. Distribué par des licences qui en restreignent l'utilisation. Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun. Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. Sun, Sun Microsystems, le logo Sun, Solaris, SunVTS, SunSolve Online, Sun Enterprise, Sun Blade, SunPCi, et Sun Fire sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux États-Unis et dans d'autres pays. Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux États-Unis et dans d'autres pays.

Please Recycle Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, CA 95054 U.S.A., 650-960-1300, Fax 650-969-9131

Part Number: 817-4343-11  
March 2004, Revision A



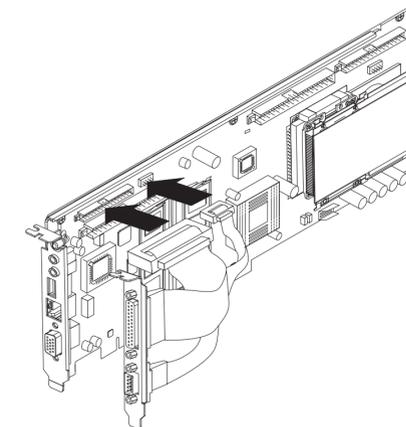
## 7 Install the Optional Serial/Parallel Port Backplate

You use the Serial/Parallel Port Backplate to connect external peripherals, such as local printers, to the system. Using this backplate is optional and if you are not using this backplate, skip this step.

This backplate contains a serial port connection and a parallel port connection.

**Note** - If you are installing both the Serial/Parallel Port Backplate and the USB/Firewire Backplate, you must install the Serial/Parallel Port Backplate into the SunPCi III card first.

- **Attach the Serial/Parallel Port Backplate to the SunPCi III main card as shown below.**



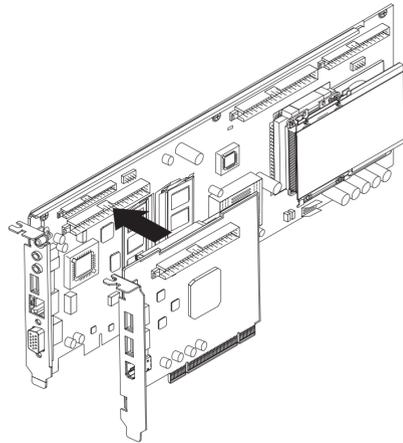
## 8 Install the Optional USB/Firewire Backplate

You use the USB/Firewire Backplate to connect external peripherals, such as a CD-RW drive or a digital camera, to the system. Using this backplate is optional and if you are not using this backplate, skip this step.

This backplate includes two USB 2.0 ports and one 1394a Firewire connection.

**Note** - Refer to the most recent SunPCi III Product Notes or to Panel 2 to verify the number of supported cards and USB/Firewire Backplates allowed per system.

- Attach the USB/Firewire Backplate to the SunPCi III main card as shown below.



## 9 Install the SunPCi III Card

If you are using the Serial/Parallel Port Backplate, do not allow the backplate to rest on the internal components of the system.

1. Insert the SunPCi III main card by sliding the card into the PCI slot.

**Tip** - Secure the SunPCi III card with a retainer clip if required.

If you are using the USB/Firewire Backplate, insert the card by sliding it into the PCI slot directly adjacent to the SunPCi III main card.

Verify that both cards are fully seated into the PCI slots and also are properly connected to each other after installation.

**Note** - With a Sun Blade 150 system, if you use both the USB/Firewire Backplate and the Serial/Parallel Port Backplate, you must insert the SunPCi III main card into the PCI-3 slot, the USB/Firewire card into the PCI-2 slot, and the Serial/Parallel Port into the PCI-1 slot.

2. Tighten the screw on each card to secure it to the system.  
Use the screw that you removed from the filler panel.

**Caution** - Do not dislodge other cards installed in other PCI slots. Ensure that the SunPCi III backplates face out through the back panel.

3. To install multiple cards, repeat this procedure for each card.

## 10 Complete the Installation

1. Remove your wrist strap and detach it from the system.
2. Replace the system cover and reconnect all cables.
3. Power on the system.  
The system automatically reboots when you turn on the power.
4. Log in and become superuser.
5. Type the following command:

```
# halt
```

6. Press Return.

7. At the `ok` prompt, type the following command:

```
ok boot -r
```

The system then reboots and brings you to the log in window.

8. Log in again.  
Continue with the installation described in the next panel.

**Note** - If your system does not recognize the SunPCi III card or reboot, the card might be seated incorrectly in the PCI slot. Turn off the power to your system, reseal the card, and repeat this procedure.

## 12 Install the SunPCi Software From the CD

The SunPCi III product CD contains two software packages:

- SUNWspci3-Core SunPCi software
- SUNWspvn3-SunPCi Virtual Network Computing (VNC) server and client software

Install the SunPCi VNC (SUNWspvn3) package to configure SunPCi Boot@Boot functionality for the host machine or to interact with SunPCi via VNC on a remote machine.

1. Insert the SunPCi III CD into the CD-ROM drive.

2. Open a terminal window.

3. Become superuser.

4. Type the following command:

```
# /usr/sbin/pkgadd -d /cdrom/cdrom0/Product
```

The `pkgadd` program starts, and displays the following message:

```
-----
The following packages are available:
| 1 SUNWspci3 SunPCi III
|   (sparc) 3.2.1
| 2 SUNWspvn3 SunPCi III VNC
|   (sparc) 1.0
|
|Select package(s) you wish to process (or 'all' to process all
|packages). (default: all) [?,??,q]:
-----
```

5. Type `all` and press Return to start the default installation.

- Choose 1 to install the SunPCi III package only.
- Choose 2 to install the SunPCi III VNC package only.

The installation starts and asks whether you want to continue the installation.

6. Type `y` and press Return to continue the installation.

SunPCi III files are copied to the `/opt` directory on your system. When all the SunPCi III files are copied, the initial prompt opens again, asking whether you want to install SunPCi III.

7. Type `q` and press Return to complete the installation.

8. Exit superuser.

You return to your normal user session.

After you install SunPCi III hardware and software, you can install Microsoft Windows or Linux.

**Caution** - Microsoft Windows or Linux installation on a SunPCi card behaves differently from a standard Microsoft Windows or Linux installation. Follow the specific directions in the *SunPCi III 3.2.1 User's Guide* or the installation will fail.

## 14 Install the SunPCi Software From the Web

To install the SunPCi software from the Web, follow these directions, then refer to the previous two panels that describe installation.

1. Go to the SunPCi Web site:

```
http://www.sun.com/desktop/products/sunpci
```

2. Click SunPCi Downloads.

3. Click the SunPCi III version (3.x) you want to download.

4. Log on to the SunPCi Web site.

5. Download the `SUNWspci3.tar.Z` file to your system.

6. Log off the SunPCi Web site.

7. Uncompress the `.Z` file and extract the `.tar` file onto your system.

8. Go to Panel 12 to start the `pkgadd` program (from the location where you downloaded the software onto your system) and continue the installation.

## 11 Install the Solaris Patches

Before installing the SunPCi III software, you must install the required Solaris software patches. You can find a list of the most up-to-date patches for the Solaris software in the *SunPCi III 3.2.1 Product Notes*.

If you have a service contract with Sun, you can download patches from the SunSolve Online<sup>SM</sup> Web site:

```
http://sunsolve.sun.com/pub-cgi/show.pl?target=home
```

## 13 Install the SunPCi Software From the CD, Continued

## 15 Technical Assistance

### Warranty

Contact your service provider or your sales representative for a description of warranty options.

### Defective Card

If you think your SunPCi III card is defective, verify that the card is correctly installed. If there is a problem, contact your service provider or your sales representative.

### Additional SunPCi Information

You must purchase and install Microsoft Windows or Linux separately.

For additional information, refer to other SunPCi III documentation:

- *SunPCi III 3.2.1 User's Guide* (817-3630-11)
- *SunPCi III 3.2.1 Product Notes* (817-3631-11)
- *SunPCi III SODIMM Installation Guide* (817-0888-10)
- *Installing Optional Hardware for the Preinstalled SunPCi III Product* (817-3276-10)
- *Sun Blade 2000 and SunPCi III Cards: Installing the Required Card Guide* (817-3695-10)

You can also find information at the SunPCi Web site:

```
http://www.sun.com/desktop/products/sunpci
```