

Lucent Technologies
Bell Labs Innovations



CentreVu[®] **Call Management System**
Sun[®] *Ultra*[™] 5 Computer
Connectivity Diagram

585-215-872
Comcode 108620238
Issue 2
October 1999

Preparing for the Installation

This section contains information that will help you prepare for the *Ultra*^{*} 5 computer installation.

Safety Precautions

For your protection, observe the following safety precautions when setting up your equipment.

- Follow all cautions, warnings, and instructions marked on the equipment.
- Never push objects of any kind through openings in the equipment as they may touch dangerous voltage points or short out components that could result in fire or electric shock.
- Refer servicing of equipment to qualified personnel.
- To further protect both yourself and the equipment, observe the following precautions.

Item	Problem	Precaution
Wrist or foot strap	ESD	Wear a conductive wrist strap or foot strap when handling printed circuit boards.
Cover panels	System damage and overheating	Re-install all cabinet cover panels after performing any service work on the system.
Card cage slot filler panels	System damage and overheating	Make sure all empty board slots have a filler panel installed.

^{*}*Ultra* is a trademark of Sun Microsystems, Inc.

System Precautions

Ensure that the voltage and frequency of the power outlet used matches the electrical rating labels on the equipment.

Wear antistatic wrist straps when handling any magnetic storage devices, and printed circuit boards.

Each of the following items requires access (by way of a separate power cord):

- *Ultra 5* computer, external peripherals, and monitor used for diagnostics. The *Ultra 5* should be powered by a non-switched, dedicated, 15-amp circuit.
- The *Ultra 5* computer uses nominal input voltages of 100-125 and 200-240 V AC at 50-60 Hz. *Sun** products are designed to work with single-phase power systems having a grounded neutral conductor under safety precautions. To reduce the risk of electrical shock, do not plug *Sun* products into another type of power source. Contact your facilities manager or qualified electrician if you are unsure what type of power is supplied to your building.

 **WARNING:**

DO NOT make mechanical or electrical modifications to the computer. Sun Microsystems is not responsible for regulatory compliance of modified computers.

Tools Required

This list represents the tools you will need:

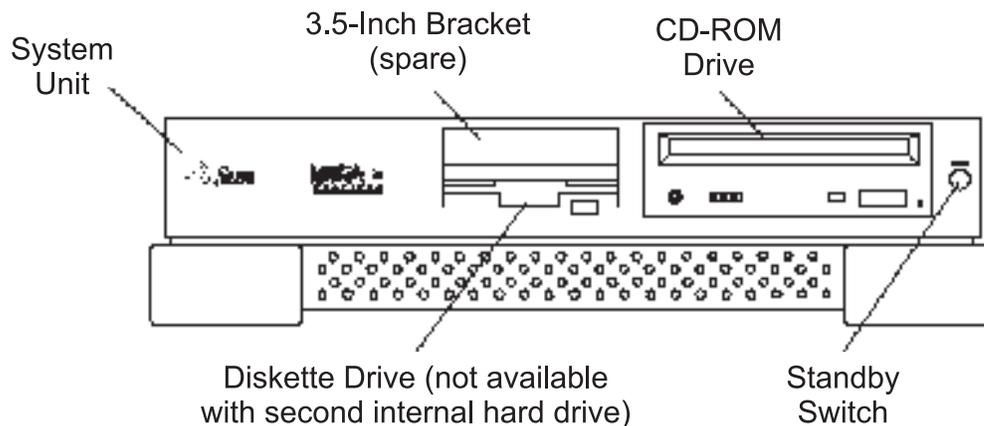
- No. 2 Phillips screwdriver (magnetized tip suggested)
- Needle-nose pliers
- Grounding wrist strap
- Antistatic mat.

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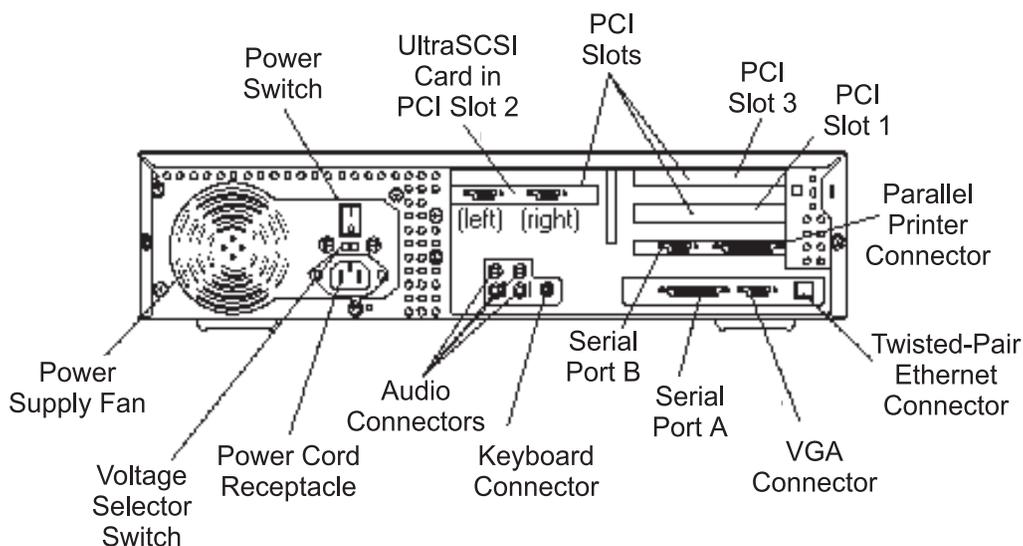
Front and Back Panels

Familiarize yourself with the layout of the *Ultra 5*. These figures show the following:

- Front Panel. This figure shows the front panel of the *Ultra 5*. The diskette drive is not available if the optional second internal hard drive has been installed.



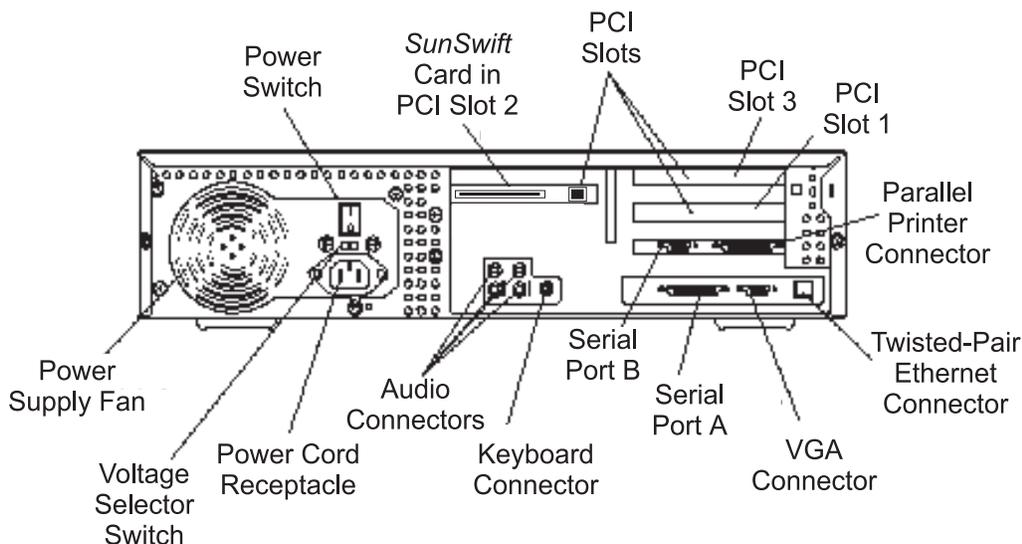
- Rear Panel (UltraSCSI). This figure shows the rear panel when you have an UltraSCSI card, which is always installed in PCI slot 2. The UltraSCSI card has two 68-pin SCSI connectors. Other PCI cards may be installed in slots 1 and 3.



- Rear Panel (*SunSwift**). This figure shows the rear panel when you have a *SunSwift* card, which is always installed in PCI slot 2. The

**SunSwift* is a trademark of Sun Microsystems, Inc.

SunSwift card has one 68-pin SCSI connector and one ethernet RJ45 connector. Other PCI cards may be installed in slots 1 and 3.



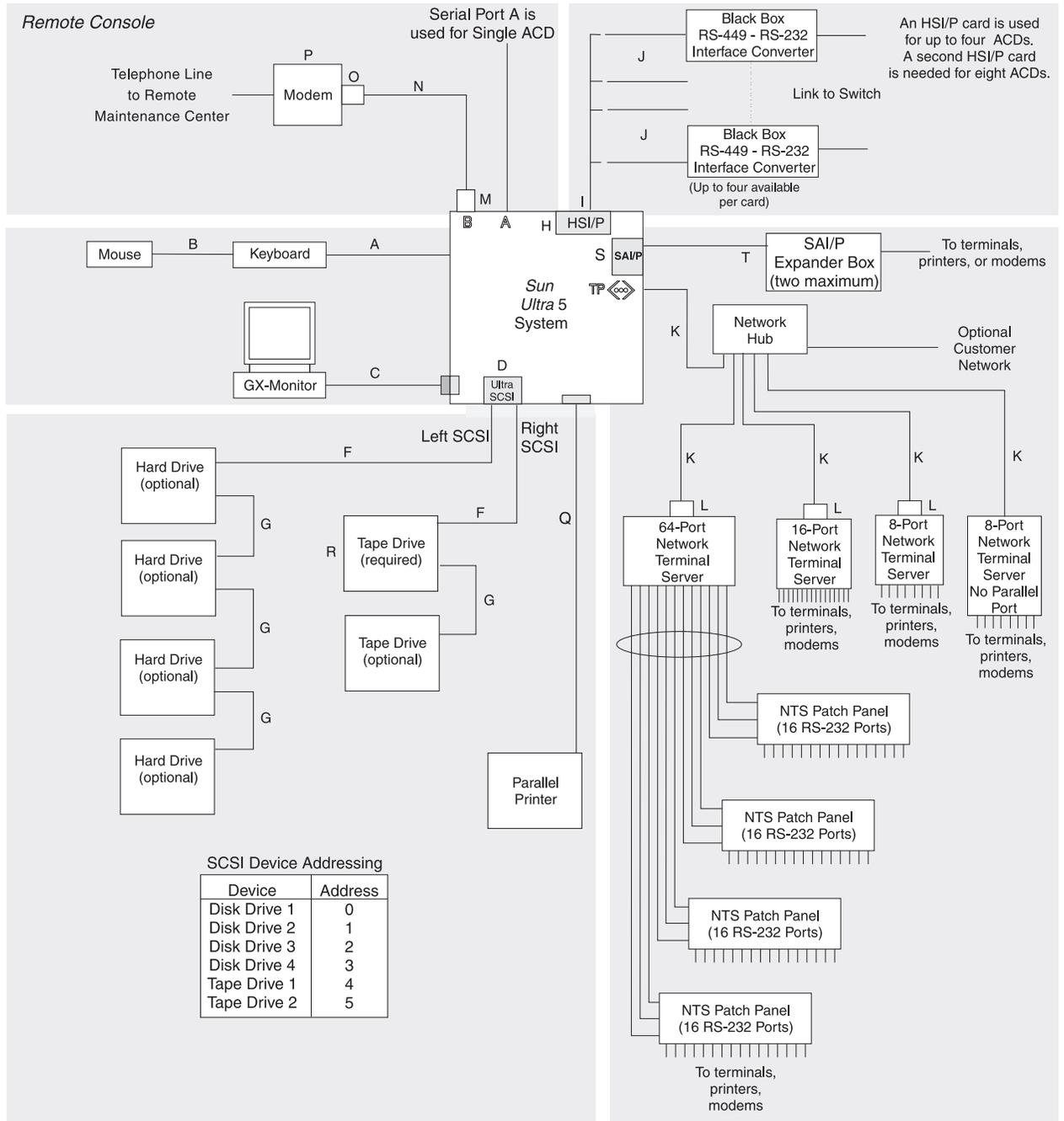
Identifying PCI Cards

The following table shows where the different PCI cards can be installed in the *Ultra 5* computer.

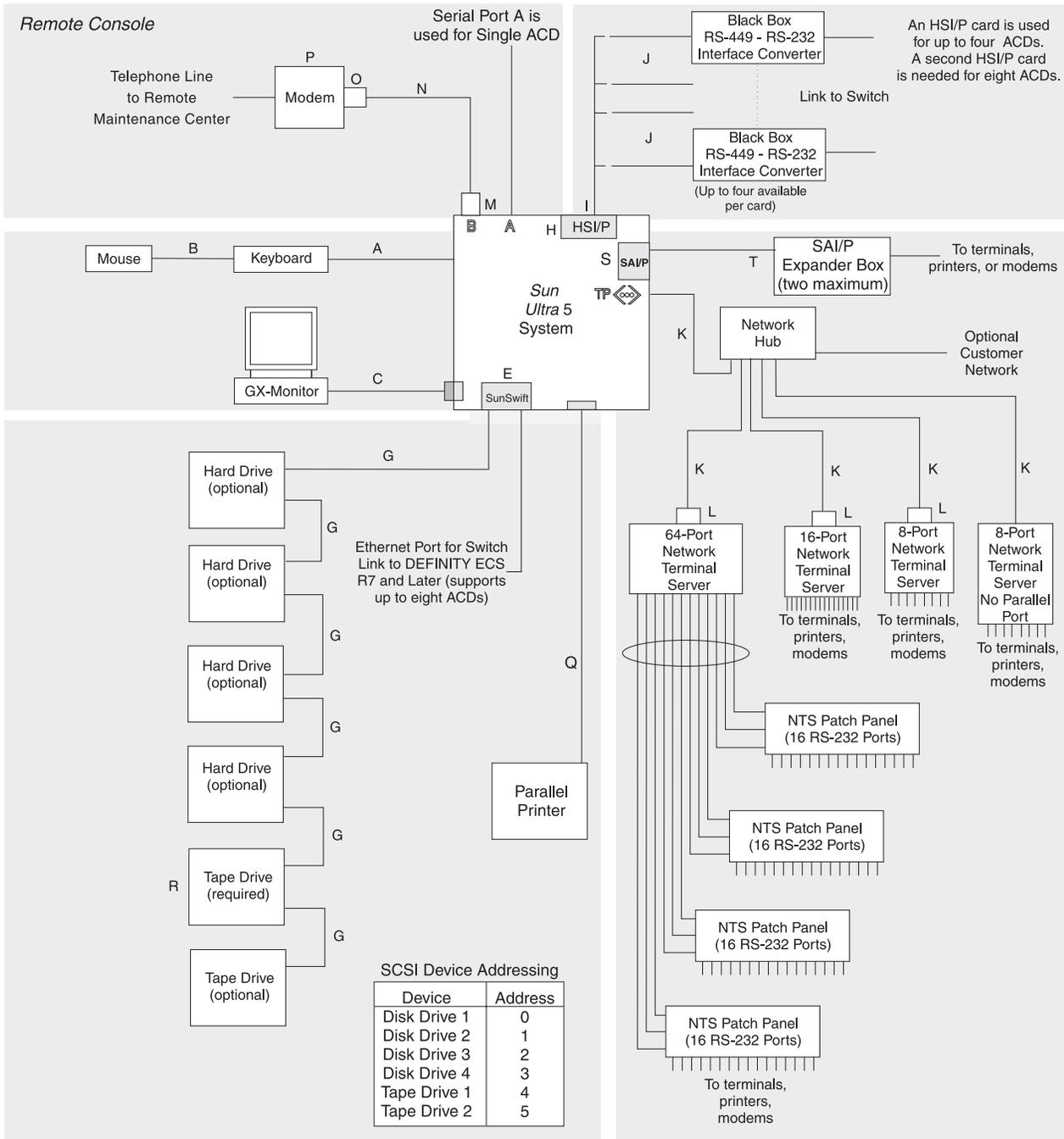
PCI Card	PCI Slot	Comments
UltraSCSI or <i>SunSwift</i>	PCI 2	Required. A <i>SunSwift</i> card is used when two ethernet connections are required.
HSI/P	PCI 1 and PCI 3	Optional. HSI/P cards are not required when using ethernet for ACD connectivity. Use PCI 1 to support four ACDs if you have only one HSI/P card. Use PCI 1 and 3 to support eight ACDs when you have two HSI/P cards.
SAI/P	PCI 1 and PCI 3	Optional.
Token Ring	PCI 3	Optional.

Connectivity Diagrams and Parts List

The following diagram shows how equipment is connected to the *Ultra 5* when an UltraSCSI card is installed.



The following diagram shows how equipment is connected to the *Ultra 5* when a *SunSwift* card is installed.



The following table lists parts required to connect most of the external devices to the *Ultra 5*. For information about connecting terminals, printers, and modems to the *Ultra 5*, see *CentreVu Call Management System Terminals, Printers, and Modems* (585-215-874). For information about switch connections, see *CentreVu Call Management System Switch Connections and Administration* (585-215-876).

Connectivity Diagram Call Out	Comcode, or Part of Comcode	Vendor Part Number	Description
A	108599671	F530-2154-xx	Keyboard cable (15 feet, 4 meters)
B	108599671	370-1398-xx	Mouse with cable
C	108599671	F530-2020-xx	Monitor cable (15 feet, 4 meters)
D	408106664	X6540A	UltraSCSI card (Dual-port PCI Adapter with Two VHDCI cables)
E	407938679	595-4258-xx	SunSwift card (10/100 Base-T F/W UltraSCSI PCI Adapter)
F	408106664	F530-2453-xx	68-to-68 pin VHDCI cable
G	407934470	595-4851-xx	68-to-68 pin SCSI cable
	407996958	F530-1430-xx	Loopback plug for HSI/P ports
H	407938653	1040A	HSI/P card (up to two may be installed)
I			Quad cable (one per HSI/P card)
J	407086818	EDN37J0010-MM	RS-449 cable (10 feet, 3 meters)
K	407086826	ANIXTER #143987	Category 5 UTP cord (10 feet, 3 meters)
L	407086859	AT-210TS	<i>CentreCOM</i> * 10Base-T transceiver
M	846373413		DB9-to-RJ45 straight-through modem adapter
N	846983039		Shielded modular cord (10 feet, 3 meters)
O	846362770	ED3P00170G-1308	RJ45-to-DB25 remote console adapter
P	407633999	Model 839	<i>Sportster</i> † 33.6 remote console faxmodem
Q	408045326		Parallel printer cable
R	108599671	SG-XTAPSLR-010A	SLR-5 tape drive
S	407350719	X1041A	SAI/P card (up to two may be installed)
T			SAI/P patch panel (one per SAI/P card)

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†*Sportster* is a registered trademark of U.S. Robotics, Inc.