Sun Blade™ 150 Product Notes

Sun Microsystems, Inc.
4150 Network Circle
Santa Clara, CA 95054 U.S.A.
650-960-1300

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Send comments about this document to: docfeedback@sun.com

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Sun Blade 150 Product Notes

The Sun Blade™ 150 product notes contain late-breaking information about changes to hardware, software, and product documentation that became known after the product documentation set was published.

Hardware Changes

IEEE 1394 High Speed Digital Interface (Firewire)

Before using a 1394 high speed digital interface to connect a camera or video device to a Sun Blade 150 workstation, ensure that a minimum of 256 MB of SDRAM is installed on the workstation motherboard.

Memory

The Sun Blade 150 workstation currently supports 128 MB, 256 MB, and 512 MB SDRAM, DIMM densities. Any supported DIMM density can be installed in any DIMM connector on the workstation motherboard.

Replacing DIMMs

Refer to Appendix C.2, Motherboard, Figure C-2 in the *Sun Blade 150 Service Manual* (816-4379-10). When adding SDRAM dual inline memory modules (DIMMs) to the Sun Blade 150 workstation always fill connectors [1], or [1 and 2], or [1, 2, 3, and 4]. Never fill connectors [1, 2, and 3] without filling connector [4].

Monitors

Some monitors require installation of the Sun 13W3 to VGA adapter cable. This optional adapter cable (X471a) can be obtained from your Sun marketing representative or the Sun store at:

`http://store.sun.com/catalog/doc/BrowsePage.jhtml?catid=26828`

Smart Card Reader II

Smart card reader II for the Sun Blade 150 workstation requires installation of the following patches for the Solaris 8 02/02 operating environment:

Sun Blade 150 Required Patches for Support of Smart Card Reader II

Solaris Operating Environment	Patch Number	Description
Solaris 8 02/02	109887-12	Smart card core fixes
	110457-05	Internal card reader fixes

Note – Always check the Sun web site for the latest compatible Solaris operating environment, firmware, and software updates.

Smart card reader II also requires installation of Java Development Kit (JDK) v1.2.2 build 11. To obtain this software update visit the Java web site at:

`http://java.sun.com/products/jdk/1.2/download-solaris.html`

Smart Card Reader II LED Indicator

Smart card reader II for the Sun Blade 150 workstation has a bi-color light emitting diode (LED) indicator. This LED indicates the operational status of the smart card and its reader.

TABLE 1 Operational Status of Smart Card and Reader

Color and Status of Smart Card II Reader LED	Smart Card Operational Status
Green, non flashing	Smart card (media) is correctly inserted into the smart card reader
Green, flashing	Data read / write to or from smart card (media) is occurring
Amber, non flashing	Smart card (media) not inserted correctly into the smart card reader

SunPCi Card II

Refer to Chapter 8, “Replacing a PCI Card”, in the *Sun Blade 150 Service Manual* (816-4379-10).

Verify that your SunPCi™ II card is installed into PCI card connector J3 (PCI-2) on the riser board.

Installation of the SunPCi II card into this position allows for adequate mechanical clearance and ensures adequate cooling of the SunPCi II card and its components.

If you have a graphics accelerator and a SunPCi II card, install the graphics accelerator board into connector J1 (PCI-3) and install the Sun PCi card II into connector J3 (PCI-2) on the riser board.

SunPCi Card II Memory Requirements

Before installing a Sun PCi card II into a Sun Blade 150 workstation, ensure that a minimum of 256 MB of SDRAM is installed on the workstation motherboard.

Software and Firmware Changes

OpenBoot PROM

The Sun Blade 150 workstation ships with OpenBoot™ PROM firmware v4.6.10. When you receive your workstation, the firmware for the product may have been updated.

Note – Always check the Sun web site for the latest compatible Solaris operating environment, firmware, and software updates for your workstation. See `http://www.sunsolve.sun.com`

Solaris Operating Environment and Supporting Software Patches

The Sun Blade 150 workstation comes preconfigured with the Solaris™ 8 02/02 operating environment and other preinstalled software applications. If you erase the contents of the hard drive or replace the hard drive with a new one, the reformatted or replacement drive is not preconfigured with the Solaris operating environment, nor will the drive have the Sun Blade 150 preinstalled software applications installed. After formatting or installing a new drive, you will need to restore the workstation operating environment and preinstalled software.

To restore the workstation software to minimal configuration, see Chapter 2 of the *Sun Blade 150 Getting Started Guide* (816-1161).

In addition to restoring the Solaris operating environment and the Sun Blade 150 preinstalled software, you will need to install the following patches:

TABLE 2 Solaris Operating Environment and Supporting Software Patches

Solaris Operating Environment	Patches
Solaris 8 02/02	108528-15 (Kernel Update 6)
	110723-05 (ERI Driver)
	111874-05 (usr/bin/mail)

TABLE 2 Solaris Operating Environment and Supporting Software Patches *(Continued)*

Solaris Operating Environment	Patches
	111883-07 (Sun GigaSwift Ethernet)
	110457-05 (Smart Card Terminal)
	109887-13 (Smart Card Reader)

Note – Always check the Sun web site for the latest compatible Solaris operating environment, firmware, and software updates for your workstation. See `http://www.sunsolve.sun.com`

Documentation Changes

The following table is a summary of the documentation supporting the Sun Blade 150 workstation:

TABLE 3 Documentation for the Sun Blade 150 Workstation

Documentation	Format of Documentation	Part Number
Setting Up Poster	Print, CD-ROM, Web	816-1162-10
Getting Started Guide	Print, English only	816-1161 English
	English, French, German, Spanish, Italian, Swedish, Japanese, Korean, Simplified Chinese, Traditional Chinese, on both CD-ROM and `www.sun.com`	816-4216 French 816-4217 German 816-4218 Spanish 816-4219 Italian 816-4220 Swedish 816-4221 Japanese 816-4222 Korean 816-4223 Simplified Chinese 816-4224 Traditional Chinese
Service Manual	HTML and PDF on CD-ROM and `www.sun.com`	816-4379
Product Notes	`www.sun.com(only)`	816-1163
Documentation CD Insert	Print	818-0122
Safety and Compliance Information	Print	816-4778
Safety Compliance Guide	`www.sun.com`	816-4779

The documentation listed above can be found at:

`http://www.sun.com/products-n-solutions/hardware/docs`

SDRAM Address Multiplexing

Refer to Appendix C, “SDRAM Address Multiplexing”, in the *Sun Blade 150 Service Manual* (816-4379-10).

Table C-4 incorrectly added signal names BA1 and BA0 to the SDRAM Address Multiplexing Scheme. Table C-4 was also missing the column labeled “512 Mbit”.

The information originally contained within Table C-4 is now divided into tables C-4a and C-4b.

Table C-4a SDRAM Address Multiplexing

DIMM Pin #	Signal Name	16 Mbit				64 Mbit				128 Mbit			
			x16x	x8	x4		x16	x8	x4		x16	x8	x4
		Row	Col	Col	Col	Row	Col	Col	Col	Row	Col	Col	Col
126	**MA[12]**												
123	**MA[11]**					A22	-	-	-	A22	-	-	A27
38	**MA[10]**	A21	0	0	0	A21	0	0	0	A21	0	0	0
121	**MA[9]**	A20	-	-	A24	A20	-	-	A26	A20	-	A26	A26
37	**MA[8]**	A19	-	A23	A23	A19	-	A25	A25	A19	A25	A25	A25
120	**MA[7]**	A18	A10	A10	A10	A18	A10	A10	A10	A18	A10	A10	A10
36	**MA[6]**	A17	A9	A9	A9	A17	A9	A9	A9	A17	A9	A9	A9
119	**MA[5]**	A16	A8	A8	A8	A16	A8	A8	A8	A16	A8	A8	A8
35	**MA[4]**	A15	A7	A7	A7	A15	A7	A7	A7	A15	A7	A7	A7
118	**MA[3]**	A14	A6	A6	A6	A14	A6	A6	A6	A14	A6	A6	A6
34	**MA[2]**	A13	A5	A5	A5	A13	A5	A5	A5	A13	A5	A5	A5
117	**MA[1]**	A12	A4	A4	A4	A12	A4	A4	A4	A12	A4	A4	A4
33	**MA[0]**	A11	A3	A3	A3	A11	A3	A3	A3	A11	A3	A3	A3

Table C-4b SDRAM Address Multiplexing Scheme

DIMM Pin #	Signal Name	256 Mbit				512 Mbit			
			x16	x8	x4		x16	x8	x4
		Row	Col	Col	Col	Row	Col	Col	Col
126	**MA[12]**	A23	-	-	-	A23	-	-	A29
123	**MA[11]**	A22	-	-	A28	A22	-	A28	A28
38	**MA[10]**	A21	0	0	0	A21	0	0	0
121	**MA[9]**	A20	-	A27	A27	A20	A27	A27	A27
37	**MA[8]**	A19	A26	A26	A26	A19	A26	A26	A26
120	**MA[7]**	A18	A10	A10	A10	A18	A10	A10	A10
36	**MA[6]**	A17	A9	A9	A9	A17	A9	A9	A9
119	**MA[5]**	A16	A8	A8	A8	A16	A8	A8	A8
35	**MA[4]**	A15	A7	A7	A7	A15	A7	A7	A7
118	**MA[3]**	A14	A6	A6	A6	A14	A6	A6	A6
34	**MA[2]**	A13	A5	A5	A5	A13	A5	A5	A5
117	**MA[1]**	A12	A4	A4	A4	A12	A4	A4	A4
33	**MA[0]**	A11	A3	A3	A3	A11	A3	A3	A3