



Sun Fire™ USBRDT 5240 Uniboard Product Notes

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Product Notes

These product notes contain important and late-breaking information on the Sun Fire™ USBRDT 5240 Uniboard. The following sections are included:

- “Technical Support” on page 1
- “Supported Firmware and Software” on page 2
- “Patch and Upgrade Information” on page 3
- “Known Issues” on page 6
- “Sun Fire Systems That Support the Sun Fire USBRDT 5240 Uniboard” on page 10
- “Sun Fire System Changes to Support the Sun Fire USBRDT 5240 Uniboard” on page 11
- “Documentation Errata” on page 12

Technical Support

If you have any technical questions or issues that are not addressed in the Sun Fire USBRDT 5240 Uniboard documentation, contact your local Sun™ support services representative.

For customers in the U.S. or Canada, call 1-800-USA-4SUN (1-800-872-4786). For customers in the rest of the world, find the World Wide Solution Center nearest you by visiting the web site:

<http://www.sun.com/service/contacting/solution.html>

Supported Firmware and Software

Preinstalled Firmware and Software

[TABLE 1](#) shows firmware and software that are preinstalled on the Sun Fire USBRDT 5240 Uniboard.

TABLE 1 Preinstalled Firmware and Software

Component	Function
Solaris™ 10 5/08 OS plus patch 137111-01	Operating system
Sun Java™ Enterprise System (Java ES) 5 Update 1 software	Optimizes software investment
Logical Domains (LDoms) 1.0.3 software	Logical domains management, including the LDoms Manager and LDoms Management Information Base (MIB)
GNU Compiler Collection 4.0.4 for SPARC® Systems	Compilers for C, C++, Objective-C, Objective-C++, Java, Fortran, and Ada
CMT Developer Tools 1.0	Suite of developer tools, including Sun Studio 12 add-ons
Sun Studio 12	Compilers and tools
Sun System firmware 7.1.4.g, which includes: OpenBoot™ PROM 4.28.10 firmware Power-on self-test (POST) 4.28.10 firmware Hypervisor 1.6.5.b firmware vBSC 1.6.5.d firmware Integrated Lights Out Manager (ILOM) 2.0.4.24.e firmware	System firmware for the service processor
SunVTS™ 7.0ps2	Hardware validation and diagnostic application

Additional Supported Software

The following firmware and software are supported, but are not preinstalled:

- Solaris 10 8/07 OS. Refer to the *Sun Fire USBRDT 5240 Uniboard Installation Guide* for instructions on installing this earlier version of the operating system.
- Sun Management Center 4.0 version 5.

- Simple Network Management Protocol (SNMP) 1.6. This support is planned after the official release of the Sun Fire USBRDT 5240 Uniboard.

Patch and Upgrade Information

Sun Fire Midrange System Power Supply Upgrade Requirement

The Sun Fire 4800, E4900, 6800, and E6900 systems require an upgrade of fan trays and power supplies to support the Sun Fire USBRDT 5240 Uniboard.

For the Sun Fire 4800 and E4900 systems, the upgrade kit part number is XE4900-USIV+KIT-Z, which includes the A213 power supplies and the latest fan trays.

For the Sun Fire 6800 and E6900 systems, the upgrade kit part number is XE6900-USIV+KIT-Z, which includes the A212 power supplies and the latest fan trays.



Caution – Hot plugging a Sun Fire USBRDT 5240 Uniboard into a 4800, 4900, 6800, or 6900 chassis configured with unsupported power supplies can cause other boards in the system to be reset and faulted. Clearing the fault state requires cycling the AC power.

To determine if you have an unsupported power supply, run the system controller command `showboards -v`.

On a Sun Fire 4800/4900 system, if the output contains A185 or A153, the XE4900-USIV+KIT-Z upgrade kit needs to be ordered.

On a Sun Fire 6800/6900 system, if the output contains A184 or A152, the XE6900-USIV+KIT-Z upgrade kit needs to be ordered.

Patch Overview

Patches are available at: <http://www.sun.com/sunsolve>

Before contacting support, ensure that all mandatory patches are installed on your server. In addition to installing these patches, check the SunSolveSM web site on a regular basis for the availability of new patches.

Patches can be downloaded and installed manually, or downloaded and installed using the Sun Connection Update Manager.

Sun Connection Update Manager Support

The preinstalled version of the Solaris 10 5/08 software shipping with the Sun Fire USBRDT 5240 Uniboard supports the Sun Connection Update Manager software.

If you are installing the Solaris 10 8/07 software and want to enable support for the Sun Connection Update Manager, you must install patch 127127-11 or later immediately after installing the Solaris 10 8/07 software. Then, you can use the Sun Connection Update Manager software to install necessary patches to fully support the Solaris 10 8/07 software on the Sun Fire USBRDT 5240 Uniboard.

Alternatively, you can install all required patches as described in “Installing the Solaris 10 8/07 Software” in the *Sun Fire USBRDT 5240 Uniboard Installation Guide*. Thereafter, the Sun Connection Update Manager software is supported.

More information and documentation on this utility are available at:

<http://www.sun.com/service/sunconnection/gettingstarted.jsp>

Mandatory Patches

Depending on the system controller of your Sun Fire host server, one System Controller Application (ScApp) firmware patch or three System Management Services (SMS) software patches are required on the Sun Fire host server.

Additionally, if you are going to install the Solaris 10 8/07 OS on the Sun Fire USBRDT 5240 Uniboard, several patches are required after you install the operating system.

TABLE 2 shows the patches required for the Sun Fire host server system controllers.

TABLE 2 Mandatory Patches for Sun Fire System Controllers

Patch ID	Description
114528-01	ScApp 5.21.0 patch
138754-01	SMS 1.6 main patch
138755-01	SMS 1.6 host power-on self-test (POST) patch
138756-01	SMS 1.6 man page patch

TABLE 3 shows the patches required after you install the Solaris 10 8/07 OS on the Sun Fire USBRDT 5240 Uniboard.

TABLE 3 Mandatory Patches for Solaris 10 8/07 OS

Patch ID	Description
119254-53 or later	Install and patch utilities patch
125891-01 or later	libc_psr_hwcap.so.1 patch
127755-01 or later	Fault Manager patch
127892-05 or later	UFS utilities patch
127127-11 or later	Kernel patch
137111-01 or later	Kernel patch

▼ To Download and Install Patches Manually

1. Determine whether the patches you require have been installed on your system.

For example, using the `showrev` command, type the following for each patch number:

```
# showrev -p | grep patchnumber-rev
```

- If you see patch information listed for the queried patch, and the dash extension (the last two digits) matches or exceeds the required version, your system has the proper patches already installed. No further action is required.

For example, if patch 119254-53 is required, and 119254-53 or later is installed, your system has the required version of this patch.

- If you do not see patch information listed for the queried patch, or if the dash extension precedes the required version, go to [Step 2](#).

For example, if patch 119254-53 is required, and if no version of the patch, or a version with an extension of -52 or earlier is installed, you must download and install the new patch.

2. Go to <http://www.sun.com/sunsolve> to download the patches.

Using the SunSolve PatchFinder tool, specify the base Patch ID number (the first six digits) to access the current release of a patch.

3. Follow the installation instructions provided in a specific patch's README file.

Known Issues

This section describes known issues in this release.

General Functionality Issues and Limitations

- Simple Network Management Protocol (SNMP) 1.6 to support the Sun Fire USBRDT 5240 Uniboard is planned after the official release of the Sun Fire USBRDT 5240 Uniboard.
- The Solaris OS does not boot from a locally attached USB hard drive.
- If you are using a Sun Dual 10Gigabit/Sec (4x) InfiniBand Host Channel Adapter Module with the Sun Fire USBRDT 5240 Uniboard, the card must be Revision A4 or later. Prior versions are not supported with the Sun Fire USBRDT 5240 Uniboard.

Specific Issues and Workarounds

TABLE 4 lists specific issues for which an ID has been assigned. The table also lists possible workarounds.

TABLE 4 Specific Issues and Workarounds

CR ID	Description	Workaround
6563214	Solaris OS does not boot from a locally attached USB hard drive	Solaris OS can be booted from an internal hard drive or over the network.
6603656	Kernel log message received: scsi: device is gone	Download and install patch 128400-03 from http://www.sun.com/sunsolve .
6604363	Bulk encryption and digest algorithms have poor scalability	Download and install patch 138064-02 from http://www.sun.com/sunsolve .
6675887	Plumbing the virtual switch services bound to an aggregated device (see <code>dladm(1M)</code> man page) causes the loss of external network connectivity	Add the following line to <code>/etc/system</code> on the domain with the virtual switch and then reboot the domain: <pre>set vsw:vsw_mac_open_retries = 1200</pre>
6678891	System can panic if using link aggregation	Check for the availability of a solution in a future release.

TABLE 4 Specific Issues and Workarounds (*Continued*)

CR ID	Description	Workaround
6682500	Doing disk I/O test causes random virtual disk hangs with unkillable processes	Use split I/O configuration for LDomS if you have heavy I/O activity.
6686545	The <code>luxadm fcode -p</code> command does not display the FCode version after a hot-plug operation	Use the command <code>/usr/sbin/prtpicl -v</code> to display the FCode version.
6689757	The Sun Dual 10-Gigabit Ethernet Module might cause the following error to display on the console: The XFP optical transceiver is broken or missing	The <code>nxge</code> driver reports a missing XFP module only if you use the command <code>ifconfig nxgeN plumb</code> to plumb the driver to a port that does not have an XFP module in it. To avoid getting this message, unplumb the driver from the port.
6695096	The <code>show-disks</code> and <code>probe-scsi-all</code> commands show the presence of a compact flash device when none is present. Example <code>show-disks</code> output: {0} ok show-disks a)/pci@500/pci@0/pci@d/scsi@0/disk b)/pci@400/pci@0/pci@1/pci@0/usb@0,2/storage@4/disk c)/pci@400/pci@0/pci@1/pci@0/usb@0,2/storage@3/disk [nonexistent compact flash] q) NO SELECTION Example <code>probe-scsi-all</code> output: {0} ok probe-scsi-all ... /pci@400/pci@0/pci@1/pci@0/usb@0,2/storage@4 ... /pci@400/pci@0/pci@1/pci@0/usb@0,2/storage@3 [nonexistent compact flash] Unit 0 Removable Disk TUSB6250USB20 DISK DRIVE {0} ok	Compact flash devices are not supported at the initial release of the Sun Fire USBRDT 5240 Uniboard. You can ignore the erroneous information.
6705209 6486234	Using LDomS affects I/O performance	I/O performance can be enhanced by using split I/O with a single guest domain. I/O performance can also be increased by not running LDomS.
6705823	Solaris 10 8/07 boot net hangs on guest LDom	Patch the miniroot of the Solaris 10 8/07 net install image with patch 127111-05.
6714183	OS installation on a USB memory flash drive might take several hours	There is no workaround. There are no plans to enhance the installation time.
6715142	Installing a guest LDom using link aggregation can cause the Solaris OS to panic	Turn off link aggregation during installation of guest LDom.

TABLE 4 Specific Issues and Workarounds (*Continued*)

CR ID	Description	Workaround
6724689	The SMS <code>powercycle</code> command indicates that the Sun Fire USBRDT 5240 Uniboard is active, when the board is actually powered off	After issuing the <code>powercycle</code> command: 1. Type the ILOM command start /SYS to boot the domain to the OS. 2. Type the ILOM command stop /SYS . 3. Type the SMS command poweroff slot_number . 4. Type the SMS command poweron slot_number .
6726375	When a Sun Cluster quorum device is removed and added using an SAS interconnect, the system might panic	Do not use an SAS interconnect. Use Sun Cluster with a Fiber Channel interconnect.
6726588	Unable to install Solaris OS from the Sun ILOM remote console with a SPARC local client	Solaris OS can be installed using an X86 platform with Windows XP OS local client running the Sun ILOM remote console.
6726637	If three or four USB thumb drives are connected to the external USB ports and the system is under heavy I/O load (including on the USB drives), the system might panic after several hours (typically more than ten)	Connect only one or two USB thumb drives at a time, or keep the system I/O load at a moderate level or below.
6729530	When an unexpected power outage occurs on a Sun Fire high-end server, after power is restored the Sun Fire USBRDT 5240 Uniboard does not automatically power back on	After power is restored, perform the following steps to power on the Sun Fire USBRDT 5240 Uniboard: 1. Use the SMS <code>poweron</code> CLI command on the chassis system controller to enable power for the Sun Fire USBRDT 5240 Uniboard. <code>SC> poweron sbslot_number</code> where <code>slot_number</code> is the slot number to enable power for. 2. Log in to the Sun Fire USBRDT 5240 Uniboard service processor and power on the domain using this command: <code>-> start /SYS</code>
6730591	Running SunVTS diagnostics, external loopback failures occur with the Sun PCI-Express Dual Gigabit Ethernet UTP (copper) ExpressModule	Check for the availability of a solution in a future release.
6731027	After resetting the service processor and issuing the Solaris <code>init 0</code> command, selecting <code>halt</code> will hang forever	Use the ILOM command <code>stop -force /SYS</code> to power off the host.

TABLE 4 Specific Issues and Workarounds (*Continued*)

CR ID	Description	Workaround
6731227	If you remove an I/O branch from the logical domain configuration of a primary domain (control domain) and then add the same I/O branch back in, upon reboot the system might come up without any I/O, or might hang in OpenBoot, or might miss the entire I/O branch and associated I/O devices from the primary domain	<p>Boot the system to an earlier working configuration or avoid removal and addition of the same I/O branch during reconfiguration of the primary domain. You can boot the system to an earlier working configuration or in the factory default configuration by executing the following ILOM commands on the service processor:</p> <pre>set /HOST/bootmode config= config_name start /SYS stop /SYS</pre> <p>where <i>config_name</i> is the working configuration saved on the service processor. If you do not have a saved configuration, use <i>factory-default</i> as the name of the configuration. Note that if the <i>factory-default</i> configuration is used in the procedure, reconfiguration of all guest domains, including the primary domain, will be required.</p>
6732811	No console message displayed when hot-plugging a 4 Gigabit/Sec PCI-E Dual FC / Dual Gigabit Ethernet Host Adapter ExpressModule (QLogic)	No workaround has been identified at this time.
6735506	Recoverable FB-DIMM errors occurring early in POST will be misinterpreted as L2 cache errors and cause a processor to be unusable	The system can be booted in a degraded memory configuration by manually blacklisting the offending Memory Control Unit (MCU).
6739392	Reset host causes POST to fail Gigabit Ethernet tests	Type the ILOM command set /HOST send_break_action=break , then at the ok prompt, type reset-all .
6745296	Fault Management Architecture (FMA) ereport calls out the wrong DIMM on the Sun Fire USBRDT 5240 Uniboard	Contact your Sun support services representative for the correct DIMM location.

TABLE 4 Specific Issues and Workarounds (Continued)

CR ID	Description	Workaround
6751116	ILOM firmware upgrade with the web interface does not work	Use the ILOM command-line interface to upgrade ILOM firmware.
6752317	During initial power on, POST reports that a power supply is not at the proper level for powering on the host side of the Sun Fire USBRDT 5240 Uniboard. The error messages are: FATAL: Polling POK Status Timeout. FATAL: The HOST Processor has a configuration error, forcing a power-down	From SMS or ScApp, use the <code>powercycle</code> command to power cycle the Sun Fire USBRDT 5240 Uniboard.

Sun Fire Systems That Support the Sun Fire USBRDT 5240 Uniboard

The Sun Fire 4800 upgraded, E4900 upgraded, 6800 upgraded, E6900 upgraded, 12K, 15K, E20K, and E25K systems support the Sun Fire USBRDT 5240 Uniboard, with certain limitations, as follows.

- The Sun Fire 4800, E4900, 6800, and E6900 systems require an upgrade of fan trays and power supplies to support the Sun Fire USBRDT 5240 Uniboard. See “[Sun Fire Midrange System Power Supply Upgrade Requirement](#)” on page 3 for more information.
- Sun Fire 12K and 15K systems with a CP1500 system controller running the Solaris 10 OS might experience memory shortages. Additional information is in Sun Alert 228395 on: <http://www.sun.com/sunsolve>
- There is a limit to the number of Sun Fire USBRDT 5240 Uniboards and UltraSPARC® III CPU/Memory boards that can be supported in a Sun Fire 15K system with A141 power supplies, as shown in [TABLE 5](#).

TABLE 5 Sun Fire 15K, A141 Power Supply Example Configuration

Board Type	Number of Boards																		
Current number of UltraSPARC III boards in chassis	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Number of Sun Fire USBRDT 5240 Uniboards allowed in chassis	0	0	1	1	2	3	4	5	5	6	7	8	8	9	10	11	12	12	13

Sun Fire System Changes to Support the Sun Fire USBRDT 5240 Uniboard

System Controller Command Changes

The System Management Services (SMS) firmware and the System Controller Application (ScApp) firmware have command changes and new commands to support the Sun Fire USBRDT 5240 Uniboard in Sun Fire systems.

Certain SMS and ScApp commands behave differently with or are not valid with the Sun Fire USBRDT 5240 Uniboard. If you try to use a command that is not valid with the Sun Fire USBRDT 5240 Uniboard, you will receive an error message. For example, the `addboard` command is not valid with the Sun Fire USBRDT 5240 Uniboard because the board cannot be dynamically reconfigured.

These SMS commands behave differently with or are not valid with the Sun Fire USBRDT 5240 Uniboard: `addboard`, `deleteboard`, `flashupdate`, `moveboard`, `poweroff`, `poweron`, `rcfgadm`, and `showboards`. Refer to the particular SMS man page for details.

These ScApp commands behave differently or are not valid with the Sun Fire USBRDT 5240 Uniboard: `addboard`, `flashupdate`, `poweroff`, `poweron`, `showboards`, and `setupplatform`. Refer to the particular ScApp Help for details.

The new system controller commands are `resetboardsc` and `powercycle`. Refer to the SMS man page or to the ScApp Help for details on these new commands.

Sun Fire Midrange Systems Firmware 5.21.0 Release

The Sun Fire Midrange Systems firmware 5.21.0 release contains everything in the the Sun Fire Midrange Systems firmware 5.20.11 release, plus support for the Sun Fire USBRDT 5240 Uniboard.

Domain Assignment

The Sun Fire USBRDT 5240 Uniboard is isolated in its own domain and cannot be assigned to another domain in a Sun Fire system.

When a Sun Fire USBRDT 5240 Uniboard is inserted into a Sun Fire system, and the board's slot is currently assigned to a domain, that slot will be automatically unassigned. Assigning a slot that contains a Sun Fire USBRDT 5240 Uniboard to a domain is not allowed.

On Sun Fire midrange systems (4800 upgraded, E4900 upgraded, 6800 upgraded, or E6900 upgraded), inserting a Sun Fire USBRDT 5240 Uniboard into a slot removes the slot from the ACL list of all domains. If the slot is later occupied by an UltraSPARC III, IV, or IV+ CPU/Memory board, use the ScApp command `setupplatform -p acl` to add the slot back into the domain ACL list for the UltraSPARC CPU/Memory boards.

Documentation Errata

The Sun Fire 4800 and E4900 systems must be upgraded to use A213 power supplies and latest fan trays to support the Sun Fire USBRDT 5240 Uniboard. The Sun Fire 6800 and E6900 systems must be upgraded to use A212 power supplies and latest fan trays to support the Sun Fire USBRDT 5240 Uniboard.

The *Sun Fire USBRDT 5240 Installation Guide*, the *Sun Fire USBRDT 5240 Administration Guide*, the *Sun Fire USBRDT 5240 Service Manual*, and the *Sun Fire Midrange Systems Firmware 5.21.0 Release Notes* should reflect this change wherever the midrange systems are referenced in those documents.