



# Sun™ Modular Datacenter S20/D20 Product Notes

---

Sun Microsystems, Inc.  
www.sun.com

Part No. 820-5808-10  
September 2008, Revision A

Submit comments about this document at: <http://www.sun.com/hwdocs/feedback>

Copyright © 2008 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

This distribution may include materials developed by third parties.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, Java, Solaris, the Java Coffee Cup logo and the Solaris logo are trademarks or registered trademarks of Sun Microsystems, Inc., or its subsidiaries, in the U.S. and other countries.

Use of any spare or replacement CPUs is limited to repair or one-for-one replacement of CPUs in products exported in compliance with U.S. export laws. Use of CPUs as product upgrades unless authorized by the U.S. Government is strictly prohibited.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

---

Copyright © 2008 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, Etats-Unis. Tous droits réservés.

Cette distribution peut comprendre des composants développés par des tierces parties.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, Java, Solaris, le logo Java Coffee Cup et le logo Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc., ou ses filiales, aux Etats-Unis et dans d'autres pays.

L'utilisation de pièces détachées ou d'unités centrales de remplacement est limitée aux réparations ou à l'échange standard d'unités centrales pour les produits exportés, conformément à la législation américaine en matière d'exportation. Sauf autorisation par les autorités des Etats-Unis, l'utilisation d'unités centrales pour procéder à des mises à jour de produits est rigoureusement interdite.

LA DOCUMENTATION EST FOURNIE "EN L'ETAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFACON.



Adobe PostScript

# Contents

---

<b>Sun Modular Datacenter S20/D20 Product Notes</b>	<b>1</b>
New Features and Components	2
New Commands and Options	3
Known Issues	4
Safety Precautions	4
Service Shelter Requirements	5
EMI Filters	5
Documentation Errata	6
Related Documentation	6
Sun Welcomes Your Comments	7



# Sun Modular Datacenter S20/D20 Product Notes

---

The *Sun Modular Datacenter S20/D20 Product Notes* contain important and late-breaking information about the current release of the Sun™ Modular Datacenter S20/D20 (Sun MD) and the hardware and software that comes preinstalled in the infrastructure rack. These notes describe known issues and provide possible workarounds.

In cases where there are differences between the product notes and the Sun MD documentation set, the information in the product notes takes precedence.

This document contains the following sections:

- [“New Features and Components” on page 2](#)
- [“New Commands and Options” on page 3](#)
- [“Known Issues” on page 4](#)
- [“Safety Precautions” on page 4](#)
- [“Service Shelter Requirements” on page 5](#)
- [“EMI Filters” on page 5](#)
- [“Documentation Errata” on page 6](#)
- [“Related Documentation” on page 6](#)
- [“Sun Welcomes Your Comments” on page 7](#)

---

# New Features and Components

The following new features and components are provided with this release of the Sun MD:

- A new configuration of the Sun MD, which includes four standard-sized racks and three deep racks, is now available.

Refer to [“Safety Precautions” on page 4](#) for information about safety precautions associated with moving deep racks with the Sun MD rack dolly.

- The following fire control system configurations are now supported for use in the Sun MD:
  - The Sigma XT fire control panel (FCP) with the Xtralis Very Early Smoke Detection Apparatus (VESDA) VLF-250 system. This configuration is typically used in European markets.
  - The Fike Single Hazard Panel Professional (SHP Pro) FCP with the Xtralis VESDA VLF-250 system. This configuration is typically used in U.S. markets.
  - The Nohmi NF227 FCP with the Xtralis VESDA VLC-200 system. This configuration is typically used in Japanese markets.
- A terminal box has been added near rack 1 to support the Nohmi NF227 fire control system wiring.
- A pressure gauge has been added to the external water ports. When the Sun MD is shipped, the plumbing system is pressurized with air to 50 PSI. If the unit arrives to its final destination and the gauge reads “0,” there might be a leak in the water line. This gauge can also be used to determine the water line pressure of a functioning system.
- The system management software delivered with this release includes PDU monitoring and various improvements to the interface.

---

# New Commands and Options

The following new commands and options are provided with the system management software that supports this release of the Sun MD.

**TABLE 1** New Commands and Options

Command	Change
emssetup	<ul style="list-style-type: none"><li>• <code>-e</code> option: Use this new option to configure the <code>/etc/controller.conf</code> file on the EMS.</li><li>• <code>-o</code> option: Use this new option to toggle support for the Nohmi NF227 FCP, or deep racks.</li></ul>
emssvc	A new EMS interface tool that runs on a Solaris, Windows, or Linux host that is directly connected to the Sun MD. The tool provides CLI commands to emulate processes found in the SixNet I/O tool, MS Windows application. Refer to the <code>emssvc</code> man page or the <i>Sun Modular Datacenter S20/D20 Reference Manual</i> for more information.
imssetup	<ul style="list-style-type: none"><li>• <code>-n</code> option: In addition to interactively configuring SNMP traps and SMTP email notifications of alerts, you can now use the <code>-n</code> option to configure mail message filters.</li><li>• <code>-o</code> option: Use this new option to toggle support for PDUs installed (<code>pduOn</code>), the deep rack configuration (<code>deeprack</code>), the Nohmi NF227 configuration (<code>NF227</code>), and the installation of the plenum door sensor (<code>PLENUMDOOR</code>).</li><li>• <code>-p</code> option: Use this new option to configure the keep-time duration of historical data.</li></ul>
pbbalerts	<ul style="list-style-type: none"><li>• <code>-a</code> option: Use this new option to display all alerts in the history table.</li><li>• <code>-q</code> option: Use this new option to display all alerts sent in the last quarter (90 days).</li></ul>
pbbsenhist	<code>-q</code> option: Use this new option to display the aggregate of history values from the last quarter (90 days).

---

# Known Issues

The following known issues exist for this release of the Sun MD.

**TABLE 2** Known Issues

---

Change Request ID	Issue and Recommended Action
6747620	<b>Issue:</b> The <code>emsbackup</code> script intermittently hangs near the end of execution. <b>Action:</b> Press enter and the output will immediately be printed out.
6741653	<b>Issue:</b> Running multiple copies of <code>imsbackup</code> , <code>imsrestore</code> , <code>emsbackup</code> , and <code>emsrestore</code> , or any combination of these scripts can cause problems. <b>Action:</b> Run only one of these scripts at a time.
6750579	<b>Issue:</b> The Sun MD software incorrectly reports the total power dissipation for the high power option; only the low power component is reported. <b>Action:</b> This situation will be corrected in an upcoming software release.
6752186	<b>Issue:</b> Some of the results produced by running <code>pbbalerts -a</code> are not listed in time stamp order. <b>Action:</b> No action is recommended.

---

---

# Safety Precautions

The following special safety precautions are associated with some of the new features and components provided with this release of the Sun MD.



---

**Caution** – Due to the possible variation in equipment mounting depth and center of gravity, the rack dolly must be carefully positioned under a deep rack to ensure that it is centered under the center line of the installed equipment. In many cases, this may not be the actual center of the rack.

---



---

**Caution** – Risk of equipment damage or personal injury. The rack mounted power distribution AC receptacles provided in the Sun MD are not for service equipment or general accessory use. Do not plug service or accessory equipment into the rack-mounted power distribution AC receptacles because they might be incompatible with the power system within the container. Do not install extension cords, plug adapters, or power pigtailes into the rack-mounted AC receptacles.

---

---

# Service Shelter Requirements

To enable warranty and support services within contracted response times for the Sun MD or its payload, external environmental conditions must be dry, and temperature and humidity levels must be aligned with the Sun MD interior operating specifications [10°C to 35°C (50°F to 95°F) and 20% to 80% relative humidity (RH), non-condensing]. When external climatic conditions are outside of these specifications, the Sun MD must be installed inside a Sun-approved environmentally controlled enclosure or be equipped with a service shelter that maintains the temperature and humidity within these specifications when the Sun MD doors are open.

In lieu of a service shelter or vestibule, customers can choose to defer warranty and support services until external climatic conditions are within the specifications described above. When choosing to defer support and service, customers should coordinate with the local service team.

For more information about service shelter specifications, refer to *Sun Service Shelter and Vestibule Guidelines*, which can be provided to you by your Sun representative.

---

# EMI Filters

Not all configurations of the Sun MD contain an EMI filter on the incoming AC power main. The filter will be installed for all countries where it is required to meet EMC compliance standards. The filter might not be installed in the Sun MD for countries that do not require it. For configurations where this filter is not installed, there is an enclosure in place of the filter, which includes only wiring that brings the AC power from the external connection points directly to the electrical breaker panel.

The Sun MD product documentation describes the EMI filter. If your Sun MD does not contain the filter, disregard references to it *Sun Modular Datacenter S20/D20 Overview* (820-2535), *Sun Modular Datacenter S20 Electrical Disconnect Guide* (820-2624), and *Sun Modular Datacenter S20 Installation Information for the Authority Having Jurisdiction* (820-3167).

---

# Documentation Errata

The following issues are known to exist in the Sun MD S20 product documentation:

- The *Sun Modular Datacenter S20/D20 Service Manual* does not provide instructions for configuring the CDU high-power option for either the high- or low-voltage configuration. This procedure will be documented at a later date.

---

# Related Documentation

The documents listed are available online through a password-protected web site. Contact your Sun Sales Representative for information about accessing the Sun MD product documentation.

Application	Title	Part Number	Format	Location
General Sun safety information	<i>Important Safety Information for Sun Hardware Systems</i>	816-7190	Printed	Shipping kit
Safety and compliance notices	<i>Sun Modular Datacenter S20 Safety and Compliance Guide</i>	820-2625-10	PDF	Online
Content to assist an AHJ assess the Sun MD	<i>Sun Modular Datacenter S20 Installation Information for the Authority Having Jurisdiction</i>	820-3167-10	PDF	Online
Planning and infrastructure support requirements	<i>Sun Modular Datacenter S20/D20 Site Planning Guide</i>	820-5806-10	PDF	Online
Product task map and documentation references	<i>Sun Modular Datacenter S20 Getting Started Guide</i>	820-2534-10	Printed PDF	Shipping kit Online
Product and functionality overview	<i>Sun Modular Datacenter S20/D20 Overview</i>	820-5770-10	PDF	Online
Preinstallation and installation	<i>Sun Modular Datacenter S20/D20 Installation Guide</i>	820-5809-10	Printed PDF	Shipping kit Online
Service	<i>Sun Modular Datacenter S20/D20 Service Manual</i>	820-5810-10	PDF	Online
Administration	<i>Sun Modular Datacenter S20/D20 Administration Guide</i>	820-5750-10	PDF	Online

Application	Title	Part Number	Format	Location
Man page command reference	<i>Sun Modular Datacenter S20/D20 Reference Manual</i>	820-5751-10	PDF Man pages	Online With software
Late-breaking and known issues	<i>Sun Modular Datacenter S20/D20 Product Notes</i>	820-5808-10	PDF	Online
Supplemental fire suppression	<i>Sun Modular Datacenter S20 Fire Suppression Guide</i>	820-2621-10	Printed PDF	Ship with optional component and online
Supplemental fire suppression	<i>Sun Modular Datacenter S20/D20 Fire Suppression Guide for the NF227 Fire Control Panel</i>	820-5752-10	Printed PDF	Ship with optional component and online
Supplemental power	<i>Sun Modular Datacenter S20 PDU and Power Strip Options Guide</i>	820-2622-10	Printed PDF	Ship with optional component and online
Electrical disconnect kit	<i>Sun Modular Datacenter S20 Electrical Disconnect Guide</i>	820-2624-10	Printed PDF	Ship with optional component and online
Fiber cable connectors kit	<i>Sun Modular Datacenter S20 Fiber Cable Connector Options Guide</i>	820-3744-10	Printed PDF	Ship with optional component and online

## Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. You can submit your comments by going to:

<http://www.sun.com/hwdocs/feedback>

Please include the title and part number of your document with your feedback:

*Sun Modular Datacenter S20/D20 Product Notes*, part number 820-5808-10.

