

# SUN FIRE X2270 M2 SERVER



*Delivering excellent performance and power efficiency in a 1RU (rack unit) enclosure, Oracle's Sun Fire X2270 M2 Server is the most effective path to cloud and technical computing. Based on the Intel Xeon Processor 5600 Series and supporting Sun FlashFire technology, this server provides maximum performance in a dense space and power envelope, allowing customers to add capacity without increasing power consumption and footprint.*

## FEATURES

- Compact 1RU entry level server
- Powered by Intel Xeon Processor 5600 Series
- Supports up to 12 DIMMs, with maximum memory of 96 GB
- Up to two Sun Flash modules
- Up to four 3.5" disk drive bays for HDDs or SSDs
- Supports a wide range of enterprise class server operating systems

## BENEFITS

- Boost application performance and reduce power consumption with Sun FlashFire technology
- Rack optimized for customers requiring multiple servers for high availability
- Consistent System manageability with Oracle ILOM included in every system



**Figure 1. The Sun Fire X2270 M2 Server is the most effective path to cloud and technical computing**

## Product Overview

The Sun Fire X2270 M2 Server takes full advantage of the outstanding performance and energy management features in the Intel Xeon Processor 5600 Series. Combine these features with the application performance enhancements and power efficiency of Sun FlashFire technology and you have the ideal server for cloud and technical computing infrastructures.

Each system offers two flash storage options that boost application acceleration. Solid State Drives (SSDs) and Sun Flash Modules deliver the I/O performance of up to one hundred 15k RPM Hard Disk Drives (HDDs) while consuming up to 80% less energy. Compared to the previous generation server and with Sun Flash Modules, the Sun Fire X2270 M2 Server delivers up to 70% higher performance per watt. As a result, an enterprise customer can place 28% more Sun Fire X2270 M2 Servers within the same power envelope.

System management is simplified with Oracle Integrated Lights Out Manager (ILOM) that comes standard in every Sun Fire X2270 M2 server. ILOM centralizes system management locally or remotely to ease system configuration, software provisioning and updates providing a consistent interface across the entire x86 product line.

**Sun Fire X2270 M2 Server Specifications**

Architecture
Processor
<ul style="list-style-type: none"> <li>• One or two Intel Xeon Processor 5600 Series</li> </ul>
Cache
<ul style="list-style-type: none"> <li>• Level 1: 32 KB instruction and 32 KB</li> <li>• Level 2: 256 KB unified (data and instruction)</li> <li>• Level 3: 12 MB shared inclusive cache</li> </ul>
Main Memory
<ul style="list-style-type: none"> <li>• 12 DDR3 DIMM slots (six DIMM slots per CPU socket):</li> <li>• DIMMs supported, 4 GB at 1,333 MHz; 8 GB at 1,066 MHz</li> <li>• Maximum memory capacity 96 GB (requires both CPU's be populated)</li> </ul>
Interfaces
Standard I/O
<ul style="list-style-type: none"> <li>• Two 10/100/1000Base-T Ethernet ports</li> <li>• One PCIe 2.0 slot— x16 electrical/x16 mechanical (low profile)</li> <li>• Five 2.0 USB ports (two front, two rear, one internal)</li> </ul>
Storage
<ul style="list-style-type: none"> <li>• Four 3.5" SATA-2 front accessible, hot swappable, disk bays</li> <li>• All bays can be populated with either HDDs or SSDs</li> <li>• Optional Sun Flash Modules on-board (up to two) with Energy Storage Module (ESM)</li> </ul>
Graphics
<ul style="list-style-type: none"> <li>• VGA 2D graphics controller embedded</li> <li>• Supports resolutions up to 1600x1200x16bits@60Hz(1024x768 when viewed remotely via ILOM RKVMS)</li> <li>• Rear HD15 VGA Port</li> </ul>
Remote Management
<p>Oracle Integrated Lights Out Manager (ILOM)</p> <ul style="list-style-type: none"> <li>• One dedicated 10/100Base-T Ethernet management port</li> <li>• In-Band, Out-of-Band and Side-Band Network Management access via any one of the 4 main Ethernet ports of the server</li> <li>• One RJ-45 serial management port</li> </ul> <p>Features and facilities</p> <ul style="list-style-type: none"> <li>• DMTF-style Command-Line Interface</li> <li>• Support for access via SSH 2.0, HTTPS, RADIUS, LDAP, and Microsoft Active Directory</li> <li>• Browser-based GUI for control of the system through a graphical interface</li> <li>• IPMI 2.0; SNMP v1, v2c, and v3</li> <li>• Remote management with full keyboard, video, mouse, storage (KVMS) redirection and remote media capability (floppy, DVD, CD, and more)</li> <li>• Monitor and report system and component status on all FRUs</li> </ul>

<b>Software</b>
Operating Systems
<ul style="list-style-type: none"> <li>• Oracle Enterprise Linux</li> <li>• Oracle VM</li> <li>• Oracle Solaris</li> <li>• Red Hat Enterprise Linux</li> <li>• SuSE Linux Enterprise Server</li> <li>• VMware</li> <li>• Windows Server</li> <li>• For more information on software go to: <a href="http://wikis.sun.com/x/KB4eD">http://wikis.sun.com/x/KB4eD</a></li> </ul>
<b>Environment</b>
<ul style="list-style-type: none"> <li>• Operating temperature: 5°C to 35°C (41°F to 95°F)</li> <li>• Non-operating temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>• Operating relative humidity: 10%–90%, non-condensing</li> <li>• Non-operating relative humidity: Up to 93%, non-condensing</li> <li>• Operating altitude: Up to 3,000 m, maximum ambient temperature is decreased by 1°C per 300 m above 900 m</li> <li>• Non-operating altitude: Up to 12,000 m</li> <li>• Acoustic noise: 7.6 B operating, 7.6 B idling; 63.1 dBA operating, 60.5 dBA idling</li> </ul>
<b>Power</b>
<ul style="list-style-type: none"> <li>• One non-redundant power supply</li> <li>• Maximum output power: 600 W</li> </ul>
<b>Regulations</b>
<ul style="list-style-type: none"> <li>• Safety: IEC 60950-1, UL/CSA 60950-1, EN 60950-1, CB Scheme with all country differences</li> <li>• RFI/EMI: FCC CFR 47 Part 15 Class A, EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 300 386</li> <li>• Immunity: EN 55024, EN 300 386</li> </ul>
<b>Certifications</b>
<ul style="list-style-type: none"> <li>• Safety: UL/cUL, CE, BSMI, GOST-R, S-Mark, CSA C22.2 No. 60950-03</li> <li>• EMC: CE, FCC, VCCI, ICES, C-Tick, MIC, GOSTR, BSMI Class A</li> <li>• Other: Complies with WEEE Directive (2002/96/EC) and RoHS Directive (2002/95/EC)</li> </ul>
<b>Dimensions and Weight</b>
<ul style="list-style-type: none"> <li>• Height: 43.43 mm (1.71 in.)</li> <li>• Width: 436 mm (17.2 in.)</li> <li>• Depth: 650 mm (25.6 in.)</li> <li>• Weight: 13.9 kg (30.61 lb.)</li> </ul>
<b>Mounting Option</b>
<ul style="list-style-type: none"> <li>• Rackmounting slide rail kit</li> <li>• Toolless rackmounting slide rail kit</li> <li>• Cable management arm</li> </ul>

**RELATED PRODUCTS AND SERVICES**

The Sun Fire X2270 M2 Server with Sun Flash Modules offers increased performance per watt without increasing power consumption. It can also scale up to 28% more servers in the same power envelope than the previous generation server.

**RELATED PRODUCTS**

- Sun Blade X6275 server module
- Sun Fire X4170 server

**RELATED SERVICES**

The following services are available from Oracle Support Services:

- Support, installation
- Eco-optimization services

**Warranty**

The Sun Fire X2270 M2 Server comes with a one-year warranty. For more information visit [oracle.com/sun/warranty](http://oracle.com/sun/warranty) for Oracle's global warranty support.

**Services**

Visit [oracle.com/sun/services](http://oracle.com/sun/services) for information on Oracle's service program offerings for Sun products.

**Contact Us**

For more information about Oracle's Sun Fire X2270 M2 Server please visit [oracle.com](http://oracle.com) or call +1.800.ORACLE1 to speak to an Oracle representative.



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