

## Frequently Asked Questions

### Oracle Server X8-2L

#### Overview

Oracle Server X8-2L is a two-socket x86 server designed for databases, enterprise storage, and big data solutions. Oracle Server X8-2L, in a compact 2U enclosure, is powered by two Platinum, or Gold Second Generation Intel® Xeon® Scalable Processors and 24 memory slots.

#### Frequently Asked Questions

**Q:** Where can I find the Oracle Server X8-2L data sheet?

**A:** [Oracle Server X8-2L data sheet](#)

**Q:** How does Oracle Server X8-2L compare with Oracle Server X7-2L?

**A:** Oracle Server X8-2L is based on the Platinum, or Gold Second Generation Intel® Xeon® Scalable Processors, while Oracle Server X7-2L is based on the first generation Intel® Xeon® Scalable Processors. The second generation processors contain in-silicon patches for Spectre and Meltdown. Prior generation processors required microcode patches that resulted in performance degradation.

**Q:** What kind of applications and workloads is Oracle Server X8-2L best suited to run?

**A:** With superior scalability in compute performance, memory capacity, I/O bandwidth, and expandability, as well as flexibility in storage configurations, Oracle Server X8-2L is ideal for the following:

- Single-node Oracle Database environments
- Storage server for big data and cloud storage solutions

**Q:** Does Oracle Server X8-2L take advantage of processor stock-keeping units (SKUs) capable of three Intel® Ultra Path Interconnect (UPI) links?

**A:** Yes. The motherboard design of Oracle Server X8-2L connects three UPI links between the two processors,

maximizing the bandwidth of interprocessor communication.

**Q:** What is included with the Oracle Server X8-2L base chassis package?

**A:** The Oracle Server X8-2L base chassis includes the motherboard, 11 low-profile PCIe 3.0 slots (one with 16 lanes and 10 with 8 lanes), one 1 gigabit Ethernet (GbE) port and one serial RJ-45 port, Oracle Integrated Lights Out Manager (Oracle ILOM) service processor, Trusted Platform Module (TPM) version 1.2, two USB 3.0 ports (one rear, one internal), two 1,200 watt platinum-rated power supplies with up to 91 percent efficiency, one tool-less slide rail kit, and one cable management arm.

**Q:** What flash storage options are available on Oracle Server X8-2L?

**A:** Oracle Server X8-2L supports up to sixteen 6.4 TB high-bandwidth NVMe PCIe devices, for a total capacity of 102.4 TB. Oracle Server X8-2L also supports up to two 480 GB M.2 serial ATA (SATA) solid-state drives (SSDs), for a total of 960 GB of M.2 capacity.

**Q:** What memory and I/O expansion features are supported on Oracle Server X8-2L?

**A:** Oracle Server X8-2L includes 24 DDR4 DIMM slots, and it can be configured with 16 GB RDIMMs single rank, 32 GB RDIMMs dual rank, or 64 GB LRDIMMs dual rank. One GbE port is included with this server, and 11 low-profile PCIe 3.0 slots are available for configuring a number of Ethernet, InfiniBand, and Fibre Channel option cards. For more information on supported PCIe cards, visit [the Oracle Server X8-2L option card support page](#).

**Q:** Does the memory for Oracle Server X8-2L support error-correcting code (ECC)?

**A:** Yes.

**Q:** Can I mix and match SAS and NVMe drives in the same server?

**A:** No. Drives must be populated as all SAS or all NVMe.

**Q:** What operating systems are certified to run on Oracle Server X8-2L?

**A:** Oracle Server X8-2L is certified to run Oracle Linux, Oracle Solaris, and Oracle VM.

For a list of supported operating system versions, visit [the Oracle X8-2L operating system support page](#).

**Q:** What system management options are available for Oracle Server X8-2L?

**A:** Oracle Server X8-2L includes an embedded service processor: Oracle ILOM. Oracle ILOM helps to simplify data center management, system configuration, and lifecycle management by providing a rich set of management interfaces for monitoring the health of the server and for remote management.

Oracle Hardware Management Pack is a set of command-line tools and agents that assist with automating server configuration through tools running on the host operating system. These tools provide a means for scripting RAID, BIOS, and Oracle ILOM configuration as well as for updating all embedded firmware. In addition, Oracle Hardware Management Pack provides agents that monitor the health of the storage subsystem and provide remote SNMP monitoring.

**Q:** Can the server configuration options be customized?

**A:** Oracle Server X8-2L can be customized to the configuration you specify through the Oracle factory's assemble-to-order (ATO) process.

**Q:** What high-availability features are available in Oracle Server X8-2L?

**A:** Oracle Server X8-2L offers hot-swappable and redundant cooling fans, RAID-enabled disks, and power supply units. Combining these enterprise-class reliability, availability, and serviceability (RAS) capabilities with the fault isolation and management features of Oracle ILOM, Oracle Solaris, or Oracle Linux enables Oracle Server X8-2 to maximize uptime, simplify system management, and reduce operational expenses.

**Q:** What are the power requirements for Oracle Server X8-2L?

**A:** The online power calculator provides an estimate of the idle and operating power level of the server.

[Oracle Server X8-2L Power Calculator](#)

**Q:** What is the difference between Oracle Server X8-2L and Oracle Server X8-2L TAA?

**A:** Oracle Server X8-2L TAA (7600470) is the part number to be ordered for all customers that require TAA compliance.

**Q:** What automated service request support is provided for Oracle Premier Support customers?

**A:** Oracle Auto Service Request, one of the features available in all of Oracle's x86 servers, detects and reports potential issues to the Oracle support center without user intervention, ensuring maximum service levels and simplifying support.

**Q:** What is included with Oracle Premier Support for x86 systems?

**A:** For more information, please see [Oracle Premier Support for Systems](#).

**Q:** Where can I find more information about Oracle Server X8-2L?

**A:** Contact an Oracle sales representative directly, call 1-800-Oracle1, or contact an Oracle authorized reseller. For more information, visit [Oracle Server X8-2L](#).



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