Frequently Asked Questions
Oracle Server X7-2L

Overview

Oracle Server X7-2L is a two-socket x86 server designed for databases, enterprise storage, and big data solutions. Oracle Server X7-2L, in a compact 2U enclosure, is powered by two Platinum, Gold, or Silver Intel® Xeon® Processor Scalable Family processors and 24 memory slots.

Frequently Asked Questions

Q: Where can I find the Oracle Server X7-2L data sheet?

A: Oracle Server X7-2L data sheet

Q: How does Oracle Server X7-2L compare with Oracle Server X6-2L?

A: Oracle Server X7-2L is based on the Platinum, Gold, or Silver Intel® Xeon® Processor Scalable Family processors, while Oracle Server X6-2L is based on Intel® Xeon® processor E5-2600 v4 product family processors. The memory subsystem of Oracle Server X7-2L is organized into six DDR4 channels, each operating at 2,666 megatransfers per second (MT/sec) and can be populated with up to two dual inline memory modules (DIMMs) per channel. The memory subsystem on Oracle Server X6-2L is a four DDR4 channel design operating at up to 2,400 MT/sec with three DIMMs per channel. Oracle Server X7-2L includes 11 configurable PCIe slots compared to 6 PCIe slots on Oracle Server X6-2L. This increased number of PCIe slots allows for extreme customization of networking interfaces and extreme flash capacity. The flash capacity in Oracle Server X7-2L increases to a total capacity of more than 100 TB versus 38 TB on Oracle Server X6-2L. The four 10GBase-T Ethernet ports and the two rear disk slots that were available on Oracle Server X6-2 have been eliminated.

Q: What kind of applications and workloads is Oracle Server X7-2L 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 X7-2L is ideal for the following:

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

Q: Does Oracle Server X7-2L 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 X7-2L connects three UPI links between the two processors, maximizing the bandwidth of interprocessor communication.

Q: What is included with the Oracle Server X7-2L base chassis package?

A: The Oracle Server X7-2L 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 X7-2L?

A: Oracle Server X7-2L supports up to sixteen 6.4 TB high-bandwidth NVMe PCIe devices, for a total capacity of 102.4 TB. Oracle Server X7-2L 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.

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Q: What memory and I/O expansion features are supported on Oracle Server X7-2L?

A: Oracle Server X7-2L includes 24 DDR4 DIMM slots, and it can be configured with 16 GB RDIMMs, 32 GB RDIMMs, or 64 GB LRDIMMs. 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 X7-2L option card support page.

Q: Does the memory for Oracle Server X7-2L support error-correcting code (ECC)?

A: Yes.

Q: What disk cage options are supported on Oracle Server X7-2L?

A: Oracle Server X7-2L ships with twelve 3.5-inch drive bays that can be populated with SAS or NVMe devices.

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

A: No. Drives must be populated as 100 percent SAS or 100 percent NVMe.

Q: What operating systems are certified to run on Oracle Server X7-2L?

A: Oracle Server X7-2L is certified to run Oracle Linux, Oracle Solaris, and Oracle VM.

For a list of supported operating system versions, visit the Oracle X7-2L operating system support page.

Q: What system management options are available for Oracle Server X7-2L?

A: Oracle Server X7-2L 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: Through the Oracle factory's assemble-to-order (ATO) process, Oracle Server X7-2L can be customized to the configuration you specify.

Q: What high-availability features are available in Oracle Server X7-2L?

A: Oracle Server X7-2L 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 X7-2 to maximize uptime, simplify system management, and reduce operational expenses.

Q: What are the power requirements for Oracle Server X7-2L?

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

Oracle Server X7-2L Power Calculator

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 X7-2L?

A: Contact an Oracle sales representative directly, call 1-800-Oracle1, or contact an Oracle authorized reseller. For more information, visit Oracle Server X7-2L.

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