

HP ProLiant SL2500 Gen8 scalable system



Flexible compute and storage in a standard 2U chassis



In today's ever-growing data centers, space is always at a premium. To gain the most value from the space you have, you need scalable, density-optimized servers that allow you to pack more processing power into your existing footprint. That's the HP ProLiant SL2500 scalable system. This density-optimized workhorse is an ideal solution for data centers focused on Web services, hosting, mainstream computing, and high-performance computing.

Make better use of your limited floor space

With up to four independent hot-pluggable servers in a standard 2U chassis, the HP ProLiant SL2500 scalable system offers a very dense solution that is ideal for your space-constrained data center. Each server node harnesses the performance of dual Intel® Xeon® E5-2600 v2 processors in a highly efficient package that shares power and cooling and fits in industry-standard racks with standard rear cabling.

The ProLiant SL2500 scalable system provides all the features you would expect in an enterprise server with the added benefit of optimization for efficiency, density, and flexible configurations. With twice the density of standard rack servers, the ProLiant SL2500 helps you make better use of your data center floor space, increase performance, and reduce energy consumption.

Key features and benefits

Increase server and rack density

- Place up to four independent, hot-swappable server nodes in one chassis.
- Increase return on investment (ROI) on your existing investments by integrating the latest processor technologies into your current rack-mount infrastructure.
- Double the compute density per "U" vs. standalone rack-mount servers with up to 80 server nodes in a standard 42U rack.
- Choose from 12 large-form-factor (LFF) or 24 small-form-factor (SFF) drive options to support demanding scale-out workloads.

Easily integrate and service the system

- Deploy the ProLiant SL2500 scalable system in your existing 19-inch standard racks with rear cabling.
- Simplify integration with a server that works with existing hot aisle or cold aisle data center layouts.
- Accelerate maintenance and upgrades with hot-pluggable servers and storage and support for the latest processor technologies.

Reduce your operating costs

- Gain greater power efficiency over standalone rack servers with a shared-infrastructure design across power and cooling.
- Cut your costs with common slot power with 96 percent Titanium or dual 94 percent Platinum certification.
- Leverage power-capping capabilities to limit power consumption per system.

Meet diverse application requirements with a highly configurable system

- Use both LFF and SFF drive cage options for high flexibility and commonality with the rest of your data center.
- Find the right-size CPU for your application with a choice of processor power ratings, from 60 watts to 130 watts.
- Accelerate your applications with high-performance memory and Intel Xeon E5-2600 v2 processors.
- Choose the optimum I/O configuration for your application with three PCIe Gen3 riser options.
- Configure two or four nodes per chassis.
- Leverage the flexible LAN on motherboard (FlexibleLOM) feature for additional expansion.

Technical specifications

Flexible configurations

The HP ProLiant SL2500 scalable system can be configured with four 1U nodes or two 2U nodes. The nodes are based on the HP ProLiant SL210t Gen8 server.



HP ProLiant SL210t Gen8: 1U node

Chassis	2U chassis supporting up to four independent server nodes with individual node serviceability
Processor	Dual processor server node Intel Xeon processors E5-2600 v2
Memory	16 sockets (per server node) HP Smart Memory—DDR3 load reduced (LRDIMM), registered (RDIMM), or unbuffered (UDIMM) 1333 MHz to 1866 MHz, 512 GB maximum
Storage controller	Embedded HP Dynamic Smart Array B120i controller (RAID 0, 1, 10) Smart Array PCIe upgrade
Networking	HP NC362i Dual Port Gigabit Server Adapter per node FlexibleLOM (additional expansion)

Technical specifications (continued)

Ports	Rear/per node—(1) SUV (1 serial B/2 USB/1 Video), (1) serial A/RJ-45, (2) NIC ports for LOM, (1) dedicated NIC port for iLO, RCM connector on chassis for support SLAPM
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Management	HP iLO Management Engine (iLO 4)
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Power redundancy	Common slot power supplies 750 W: 94% Platinum Plus and 96% Titanium 1200 W: 94% Platinum Plus 48 V DC power supplies
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Expansion slot	PCIe x16 Gen3 (LP)
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HP ProLiant SL210t Gen8: 2U node

Chassis	2U chassis supporting up to four independent server nodes with individual node serviceability
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Processor	Dual processor server node Intel Xeon processors E5-2600 v2
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Memory	16 sockets (per server node) HP Smart Memory—DDR3 load reduced (LRDIMM), registered (RDIMM), or unbuffered (UDIMM) 1333 MHz to 1866 MHz, 512 GB maximum
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Storage controller	Embedded HP Dynamic Smart Array B120i controller (RAID 0, 1, 10) Smart Array PCIe upgrade
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Networking	HP NC362i Dual Port Gigabit Server Adapter per node FlexibleLOM (additional expansion)
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Ports	Rear/per node—(1) SUV (1 serial B/2 USB/1 Video), (1) serial A/RJ-45, (2) NIC ports for LOM, (1) dedicated NIC port for iLO, RCM connector on chassis for support SLAPM
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Management	HP iLO Management Engine (iLO 4)
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Power redundancy	Common slot power supplies 750 W: 94% Platinum Plus and 96% Titanium 1200 W: 94% Platinum Plus 48 V DC power supplies
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Expansion slot	Gen3: PCIe x16 (FH/FL), x8* (FH/HL), x8* (LP) PCIe x8 (FH/FL), x8 (FH/HL), x8 (LP) PCIe x16 (FH/FL), x8 (LP)
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*(x4 electrically)

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.

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Leverage the expertise of HP Services

When technology works, business works

When you buy HP ProLiant options for your HP ProLiant servers, it's a good time to think about services. Service options include:

- **Recommended HP Care Pack Services**—Three-year HP 24x7 four-hour response, hardware support onsite service or three-year HP 24x7 four-hour response, HP collaborative support, HP ProLiant server hardware installation service.
All support services come with HP Insight Remote Support, providing 24x7 remote monitoring, proactive notifications, and problem resolution.
- **Coverage**
For ProLiant servers, HP Care Pack services provide coverage for HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22 inches and tower UPS products. These items are covered at the same service level.

HP Factory Express

HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. hp.com/go/factoryexpress

Customer technical training

Gain the skills you need with ExpertOne training and certification from HP. With HP training, you will accelerate your technology transition, improve operational performance, and get the best return on your HP investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. hp.com/learn/proliant

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