



Hewlett Packard
Enterprise

HPE SUPERDOME FLEX SERVER

Superdome Flex Servers



WHAT'S NEW

- Utilizes Intel® Xeon® Scalable processors with choice of Gold or Platinum.
- Features faster DDR4 memory technology.
- Supports Intel® Optane Persistent Memory 100 series for HPE.
- Offers choice of DRAM only, or a combination of DRAM and persistent memory to meet individual workload

OVERVIEW

Are you struggling to keep up with the increasing demands on your mission-critical data environment?

HPE Superdome Flex Server is a compute breakthrough that can power critical applications, accelerate data analytics, and tackle high-performance computing (HPC) and artificial intelligence (AI) workloads holistically. It delivers an unmatched combination of flexibility, performance and reliability for critical environments of any size. A unique modular architecture and unparalleled scale

requirements.

- Delivers enhanced management, reliability, and security ecosystem.
- Provides 128 GB DDR4 DIMMs and refreshed SSDs and NVMe.

allow you to start small and grow at your own pace. Leveraging its in-memory design and groundbreaking performance, your business can process and analyze growing quantities of data at extraordinary speed. HPE Superdome Flex safeguards these vital workloads with superior RAS and end-to-end security. Meanwhile, HPE Pointnext, broad partner ecosystem, and mission-critical expertise complement the capabilities and value of the platform to help ensure your move to the HPE Superdome Flex is a success.

FEATURES

Keep Pace with the Evolving Demands on Your Critical Data Environments

HPE Superdome Flex Server utilizes a unique modular architecture that scales flexibly and seamlessly from 4- to 32-sockets in a single-system. Grow at your own pace, in 4-socket increments, avoiding the need to over-provision. With up to 32 sockets/896 cores, you have plenty of headroom to scale.

Leverage a cost-efficient entry point for mission-critical workloads at 4 sockets, and the ability to scale up to 32 sockets with choice of either economical Gold or high-end Platinum Intel Xeon Scalable processors.

Meet your in-memory computing demands with a platform that delivers from 768 GB up to 48 TB of shared memory. Choose DRAM only, or a combination of DRAM and Intel® Optane Persistent Memory 100 series for HPE, to meet your workload requirements.

Benefit from unbounded I/O with support for up to 128 PCIe standup cards.

Simplify your hybrid cloud environment with choice of management including open Redfish software ecosystem, OpenStack®, and HPE OneView monitoring.

Process and Analyze Your Ever-Growing Data at Extreme Speed

HPE Superdome Flex Server provides the compute power needed for the most demanding workloads by delivering groundbreaking performance at any scale. [1]

Achieve the performance levels required by critical applications with ultra-low latency and high bandwidth technology.

Leverage innovative in-memory design and unmatched shared memory capacity of up to 48 TB in a single system.

Designed for the future based on Memory-Driven Computing design principles to boost analytics performance.

Safeguard your Mission-critical Workloads

The HPE Superdome Flex Server delivers the highest service levels on industry standards with extreme and proven RAS capabilities not available on other x86 platforms. [2]



Contain errors at the firmware level, including memory errors, before any interruption can occur at the operating system layer with the Hewlett Packard Enterprise firmware-first approach.

Reduce human error with the proven fault-handling analysis engine, which predicts hardware faults and initiates self-repair without operator assistance.

Isolate workloads and/or consolidate multiple workloads onto a single managed complex with the unique x86 hard partitioning (HPE nPars). Service individual partitions and/or reconfigure while other partitions continue to run undisturbed.

Deliver business continuity for Linux® workloads with HPE Serviceguard for Linux (SGLX) high availability and disaster recovery clustering solution. It protects from a multitude of infrastructure and application faults across physical or virtual environments over any distance.



Technical specifications

HPE Superdome Flex Server

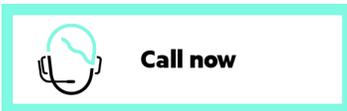
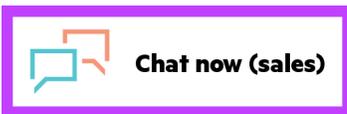
Processor Name	Intel Xeon Scalable processors (Platinum or Gold)
Processor family	Four Intel® Xeon® Scalable processors (Platinum or Gold) per chassis
Processor core available	28 or 24 or 22 or 18 or 16 or 14 or 12 or 8 or 4
Processor cache	16.5 MB or 19.25 MB or 22 MB or 24.75 MB or 30.25 MB or 33 MB or 38.5 MB
Processor speed	3.6 GHz maximum depending on processor
Form factor	Chassis is a 5U enclosure
Maximum memory	48 TB with 128 GB DIMMs per system 6 TB with 128 GB DIMMs per chassis
Memory type	HPE DDR4 Memory
Memory slots	48 DIMM slots per chassis
Expansion slots	Up to 16 per chassis, for detail descriptions refer to the QuickSpecs
System fan features	Hot-Plug
Drive description	0 or 2 or 4
Optical drive type	DVD-RW DVD-R
Network controller	2 x 10GbE ports per chassis, 2 x 1GbE ports per base chassis onboard. Additional networking available via I/O cards.
Minimum dimensions (H x W x D)	21.95 x 44.45 x 82.55 cm (chassis)
Weight	50 kg
Warranty	3-year parts, 3-year labor, 3-year onsite support coverage. For more warranty information refer to https://h20564.www2.hpe.com/hpsc/wc/public/home . Additional HPE support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at http://hpe.com/support .



For additional technical information, available models and options, please reference the [QuickSpecs](#)

Make the right purchase decision.
Contact our presales specialists.

[Call for availability](#)



HPE POINTNEXT

Access expertise at every step of your IT journey with [HPE Pointnext Services](#). [Advisory Services](#) focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our [Professional](#) and [Operational Services](#) help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- [HPE Datacenter Care](#) helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- [HPE Proactive Care](#) offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- [HPE Foundation Care](#) helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more.](#)

Other related services

[Defective Media Retention](#) is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

[HPE Service Credits](#) offers a menu of technical services, access additional resources, and specialist skills.

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like [IT financing solutions](#), please [explore them here](#).

[1] HPE Superdome Flex Server holds several performance benchmark records. See this blog for further details:

<https://community.hpe.com/t5/Servers-The-Right-Compute/Defying-the-law-of-diminishing-returns-HPE-Superdome-Flex-ba-p/7012970>

[2] For a detailed list of RAS capabilities on the HPE Superdome Flex Server, refer to this technical whitepaper:

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00036491enw>

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