

HPE Superdome Flex Server



What's new

- Refreshed drives.
- Provides support for A100-80GB.

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 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 type	Intel®
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
Drive type	Up to four 2.5-inch SFF SAS or SATA HDDs or SSDs
Drive description	0 or 2 or 4
Network controller	2 x 10GbE ports per chassis, 2 x 1GbE ports per base chassis onboard. Additional networking available via I/O cards.
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
Form factor	Chassis is a 5U enclosure
Optical drive type	DVD-RW DVD-R
Product Dimensions (imperial)	8.64 x 17.5 x 32.5 in (chassis)
Weight	110 lb
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 .

[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>

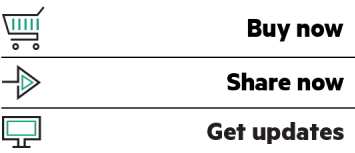
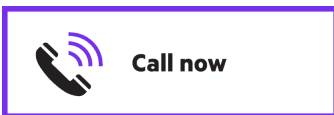
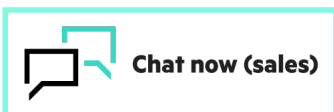
[2] For a detailed list of RAS capabilities on the HPE Superdome Flex Server, refer to this technical whitepaper: <https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00036491enw>



[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 Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading 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, 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](#).

Explore **HPE GreenLake**

© Copyright 2023 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Intel and Intel Xeon are trademarks of Intel Corporation in the U.S. and other countries.

Oracle is a registered trademark of Oracle and/or its affiliates.

SAP HANA is a trademark or registered trademark of SAP SE in Germany and in several other countries.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

The OpenStack Word Mark is either a registered trademark/service mark or trademark/service mark of the OpenStack Foundation, in the United States and other countries and is used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community.

All other third-party marks are property of their respective owners.

Image may differ from the actual product
[PSN1010323140USEN](#), June, 2023.