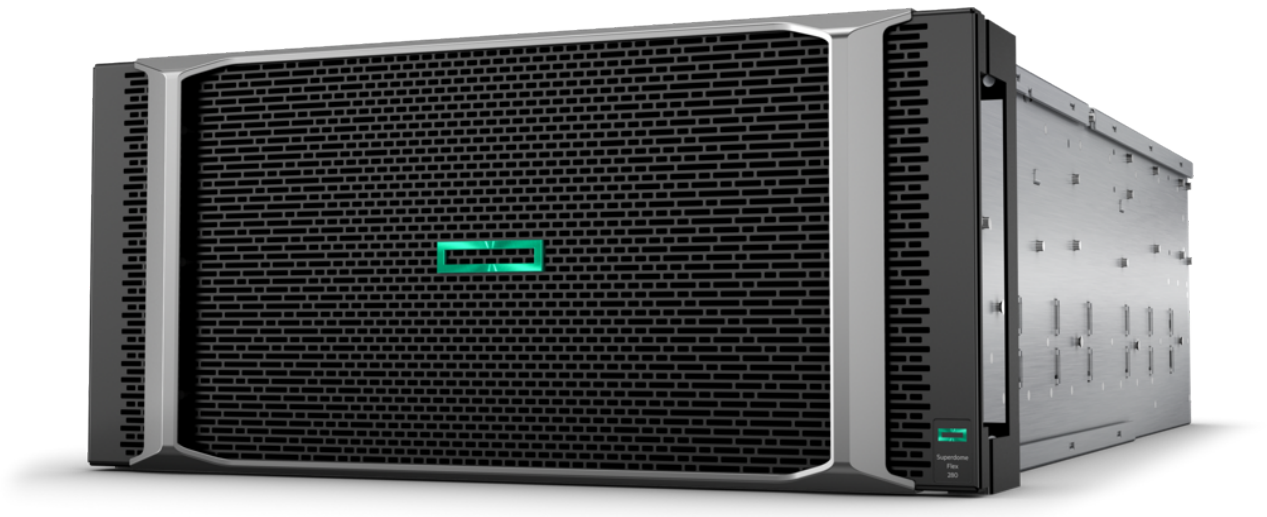
HPE Superdome Flex 280 Server



What's new

- Additional processor and I/O choices.
- Support for Intel® Optane™ Persistent Memory 200 series for HPE.
- NVMe drives/tri-mode controller support.
- Support for 6-socket configuration.

Overview

Are you looking to equip your enterprise environment with the performance, reliability, and security needed for the most demanding workloads?

The HPE Superdome Flex 280 is a highly reliable server that starts at two and scales up to eight 3rd generation Intel® Xeon® Scalable processors. Its modular architecture scales cost-efficiently to meet future growth. Six UPI links per processor result in higher bandwidth and faster data rates than prior generations. [1] Designed to provide 64 GB to 24 TB of shared memory using DRAM or in combination with persistent memory, it is an ideal choice for real-time analytics. Extreme HPE Superdome RAS features such as advanced memory resiliency, firmware-first approach, analysis engine, and self-healing provide increased system uptime. Superior security, including support for Silicon Root of Trust, protects your critical workloads. As-a-service consumption with HPE GreenLake provides flexibility while maintaining on-premises control.

Features

Meet Evolving Business Demands with Optimum Flexibility

HPE Superdome Flex 280 server utilizes a modular 5U 2- or 4-socket building block. It scales cost-efficiently from two to eight sockets to meet future growth.

Leverage a choice of either economical Gold or high-end Platinum 3rd generation Intel Xeon Scalable processors to deliver 16 to 224 powerful compute cores in a single system.

As-a-service option with HPE GreenLake provides consumption flexibility while maintaining on-premises control.

Simplify management with a comprehensive framework that includes HPE OneView management, OpenStack, Redfish APIs, and an easy-to-use management GUI.

Address the Most Demanding Workloads with Increased Performance

HPE Superdome Flex 280 server modular architecture features six UPI links per processor and delivers higher bandwidth and faster data rates than prior generations. [1]

Designed to provide 64 GB to 24 TB of shared memory using DRAM only or in combination with Intel Optane Persistent Memory 200 Series for HPE, HPE Superdome Flex 280 server is ideal for in-memory analytics.

Address large data volumes and network connectivity with a balanced I/O system supporting up to 32 PCIe 3.0 cards with choice of 16-slot (all low profile) or 12-slot (FH/FW). The server supports up to 20 SAS/SATA/NVMe drives with RAID and hardware encryption, plus an optional DVD.

Safeguard Critical Workloads with Extreme Reliability and Superior Security

The HPE Superdome Flex 280 server features a comprehensive set of RAS capabilities to deliver the highest service levels for mission critical applications.

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

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

Reduce exposure to threats and protects against firmware attacks and malware with superior security capabilities, including Silicon Root of Trust.

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 280 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 20 or 18 or 16 or 8
Processor cache	16.5 MB or 22 MB or 24.75 MB or 27.5 MB or 33 MB or 35.75 MB or 38.5 MB
Processor speed	3.9 GHz maximum depending on processor
Drive type	Up to twenty 2.5-inch SFF SAS/SATA SSDs or SATA HDDs. 10 per chassis
Drive description	0 to 20
Network controller	2 x 1GbE ports per base chassis onboard. Additional networking available via I/O cards.
Maximum memory	Designed for up to 24 TB of memory in an 8-socket system
Memory type	DDR4 Memory with Optional Persistent Memory
Memory slots	48 DIMM slots per chassis
Expansion slots	Up to 16 per chassis, for detail descriptions refer to the QuickSpecs. Options include 12-slot with full height capability 16-slot zero slots - compute only
Power supply type	HPE 1600W hot-swappable. Optional 2130W hot swappable. Up to 4 per chassis
Infrastructure management	Web-based GUI, command-line, and Redfish
System fan features	Hot-plug
Form factor	Chassis is a 5U enclosure
Optical drive type	DVD-RW or DVD-R
Product dimensions (metric)	21.82 x 44.45 x 87.95 cm (chassis), not including mounting rails for width, measured handle to handle for depth
Weight	Average 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.

[1] The 3rd-generation Intel Xeon Scalable processor architecture has six UPI links, twice than the 2nd generation Intel Xeon Scalable processor architecture. Maximum data rate is 3200 MT/s @ 1 DPC, 9% higher than with 2nd generation Intel Xeon Scalable processors.

For additional technical information, available models and options, please reference the QuickSpecs

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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.

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

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

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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.

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The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

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**

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Hewlett Packard Enterprise