



# HPE SUPERDOME FLEX 280 SERVER

## Superdome Flex Servers



### OVERVIEW

Are you looking to equip your small to midsize 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 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 2 to 8 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 protect 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

|  |  |
|--|--|
| <b>Processor Name</b>                  | Intel Xeon Scalable processors (Platinum or Gold)  |
| <b>Processor family</b>                | Four Intel® Xeon® Scalable processors (Platinum or Gold) per chassis   |
| <b>Processor core available</b>        | 28 or 24 or 18 or 16   |
| <b>Processor cache</b>                 | 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  |
| <b>Processor speed</b>                 | 3.1 GHz maximum depending on processor   |
| <b>Form factor</b>                     | Chassis is a 5U enclosure  |
| <b>Maximum memory</b>                  | Designed for up to 24 TB of memory in an 8-socket system   |
| <b>Memory type</b>                     | DDR4 Memory with Optional Persistent Memory  |
| <b>Memory slots</b>                    | 48 DIMM slots per chassis  |
| <b>Expansion slots</b>                 | Up to 16 per chassis, for detail descriptions refer to the QuickSpecs. Options include 12-slot with full height capability<br>16-slot<br>zero slots - compute only   |
| <b>System fan features</b>             | Hot-plug   |
| <b>Drive description</b>               | 0 to 20  |
| <b>Optical drive type</b>              | DVD-RW or DVD-R  |
| <b>Network controller</b>              | 2 x 1GbE ports per base chassis onboard. Additional networking available via I/O cards.  |
| <b>Power supply type</b>               | HPE 1600W hot-swappable. Optional 2130W hot swappable. Up to 4 per chassis   |
| <b>Infrastructure management</b>       | Web-based GUI, command-line, and Redfish   |
| <b>Minimum dimensions ( H x W x D)</b> | 21.95 x 44.45 x 82.55 cm (chassis)   |
| <b>Weight</b>                          | Average 50 kg  |
| <b>Warranty</b>                        | 3-year parts, 3-year labor, 3-year onsite support coverage. For more warranty information refer to <a href="https://h20564.www2.hp.com/hpsc/wc/public/home">https://h20564.www2.hp.com/hpsc/wc/public/home</a> . 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 <a href="http://hpe.com/support">http://hpe.com/support</a> . |



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

## 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] 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.

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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.

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