

HPE Nonstop Compute NS9 X5



What's new

- A new generation of HPE Nonstop Compute CPUs based on Intel® Xeon® x86
- Up to 8 TB DDR5 memory per system, twice the previous generation
- Dual-fabric Infiniband system interconnect providing 2X the previous generation's raw bandwidth
- Two and a half times the raw networking bandwidth for modern datacenter integration
- Up to 32 Gb Fibre Channel connectivity for external storage and Virtual Tape Controller connectivity
- Native clustering of up to three generations of HPE Nonstop

Overview

What sets HPE Nonstop Compute solutions apart from the rest of the industry? The HPE Nonstop Compute NS9 X5 is designed from the ground up for mission-critical and business-critical environments that demand continuous application availability and 100% fault tolerance. The reliable HPE Nonstop software has been protecting customers' vital business applications for five decades. From banking to online shopping, driving your favorite car and daily train commute, many everyday digital consumer interactions rely on these powerful, seamless and trusted HPE Nonstop Compute solutions. Introducing an x86-based, high-end system called HPE Nonstop Compute NS9 X5 with an upgraded Intel® Xeon® processors, increased memory performance and capacity, higher system interconnect bandwidth and increased networking connectivity for modern data center integration. These systems provide massive scalability with extreme performance for high-volume transaction processing (OLTP) mission-critical applications.

Features

Powerful and Efficient Solutions for Mission-critical Workloads

Up to 16 HPE Nonstop Compute CPUs with 2-, 4-, or 6-core software licensing.

Increased memory capacity: Up to 8 TB memory per system which is 2 times the memory per system from the previous generation.

Increased networking connectivity up to 2.5 times the raw networking bandwidth from the previous generation, enabling modern data centre integration.

Up to 32 Gb Fibre Channel connectivity for external storage and Virtual Tape Controller connectivity.

Dual-fabric InfiniBand system interconnect with 2 times the raw bandwidth than previous generation.

Seamless Experience to Migrate, Scale and Deploy

Simplify transition to new systems with heterogeneous, native clustering of three generations of HPE Nonstop Compute platforms and 100% binary compatibility among generations. The NS9 X5 supports highly tailored, multiple system configurations for customer-specific requirements.

Scale seamlessly without performance degradation or downtime with the HPE Nonstop massively scalable unique architecture. The HPE Nonstop Compute NS9 X5 can scale out to match growing business demands. Starting with as few as two CPUs, a single NS9 X5 node can grow up to 16 CPUs.

With HPE Nonstop Expand-over-IP software, the NS9 X5 can be networked with up to 255 nodes.

Deploy your applications where you need them with a uniform user-experience across on-premises, colocation or hybrid cloud.

Get the cloud-experience with GreenLake Flex Solution's consumption-based model while optimizing costs.

Trusted and Secure Solution for your Vital Business Applications

Get peace of mind with a fault tolerant, IDC AL4 rated platform supported by a comprehensive portfolio of mission-critical HPE Services delivered by expert HPE Nonstop engineers with global, 24x7 support. [1]

Reduce migration risk with a breadth of installation, deployment, and migration services for a smooth transition.

Count on on a proven platform with five decades of trust and constant evolution.

Safeguard your environment from evolving security threats with a robust security design & advanced digital resilience strategies.

Engineered for the Highest Level of Availability

HPE Nonstop Compute NS9 X5 systems are designed for high availability - Availability Level 4 (as defined by IDC), where business processes are not impacted by a single component failure, meaning no interruption of work and no degradation in performance. [1]

For five decades, the HPE Nonstop software architecture remains the ideal choice when there is a need for highest level of availability and reliability.

HPE Nonstop software is able to achieve this with specific features such as shared nothing, full system cluster architecture, active redundancy using process check points, immediate, automated reroute of workloads in case of failures and redundancy with hardware components.

The software stack includes the OS and OSS file system, security, system management, middleware, Java and Java-frameworks, a modern development environment, and one of the world’s most fault-tolerant databases.

Technical specifications	HPE Nonstop Compute NS9 X5
Processor type	Intel®
Processor family	Intel® Xeon® Gold 6400 series
Processor core available	2, 4, or 6-core software licensing available
Drive type	SAS SFF (2.5 in) Solid State Drive (SSD). Enterprise storage system (ESS) with HPE XP8 storage array.
Drive description	Designed for up to 25 SAS SFF drives per enclosure and up to 2,700 drives per system. The drive enclosures connect to storage controllers referred to as HPE Nonstop Compute storage CLIMs. The NS9 X5 system is designed for up to 56 CLIMs (a combination of Storage, IP, and Telco CLIMs). A minimum of two storage CLIMs is required.
Network controller	Designed for 4x25 GbE and 1x1 GbE ports per network controller. A network controller can be an HPE Nonstop Compute IP or Telco CLIM. The NS9 X5 system is designed for up to 56 CLIMs (a combination of Storage, IP, and Telco CLIMs). A minimum of two IP or Telco CLIMs are required.
Maximum memory	Designed for up to 8 TB in a 16 HPE Nonstop Compute CPU system, up to 512 GB per CPU
Memory type	HPE DDR5 memory
Expansion slots	Compute and I/O expansion is possible by the addition of Nonstop CPUs and CLIMs to the system interconnect fabric. This fabric is based upon InfiniBand technology delivering with up to 100 Gbps bi-directional bandwidth throughout the system.
Power supply type	Individual components with hot swappable power supplies. Input PDU power: North America/Japan single phase or 3-phase, or international single phase or 3-phase.
Infrastructure management	HPE Open System Management (OSM)
System fan features	Redundant fans
Form factor	36U or 42U rack(s)
Warranty	For HPE Nonstop Compute systems, 1 year hardware and 90 days software warranty period is applicable. For more warranty information refer to https://www.hpe.com/support/nonstop/globalwarranty . 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 Hewlett Packard Enterprise website at https://support.hpe.com/hpesc/public/home .

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

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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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