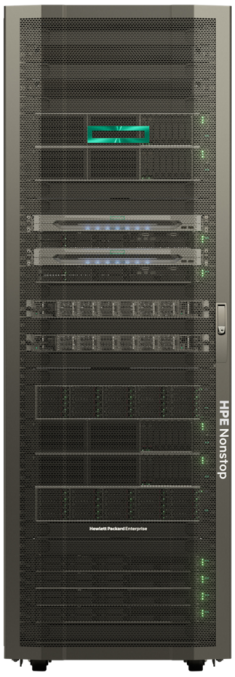
Data sheet

HPE Nonstop Compute NS5 X5



What's new

- A new generation HPE Nonstop Compute CPUs based on Intel® Xeon® x86
- Up to 512 GB DDR5 memory per system, twice the memory per system from the previous generation
- For modern datacenter integration, ten times the raw networking bandwidth from the previous generation
- 32G Fibre Channel connectivity for external storage and Virtual Tape Controller connectivity

Overview

Does your SMB system or development environment require continuous availability?
The HPE Nonstop Compute NS5 X5 solution 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 applications for five decades. From banking to online shopping, driving your favorite car and everyday train commute, many everyday digital consumer interactions rely on these powerful, seamless and trusted HPE Nonstop Compute solutions. Introducing an x86-based, entry-class solution for enterprise customers called HPE Nonstop Compute NS5 X5 with upgraded Intel® Xeon® processors and increased memory capacity. These systems provide extreme performance for high-volume transaction processing (OLTP) applications and are ideal for small-enterprises, distributed computing, and development environments.

Features

Powerful and Efficient Solutions for Mission-critical Workloads

Up to 4 HPE Nonstop Compute CPUs.

Increased memory capacity: Up to 512 GB DDR5 memory per system which is 2 times the memory per system from the previous generation.

Increased networking connectivity up to 10 times the raw networking bandwidth from previous generation facilitating modern datacentre integration.

32 G Fibre Channel connectivity for external storage and VTC connectivity.

Engineered for the Highest Level of Availability

HPE Nonstop Compute NS5 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's 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.

Deploy and Scale your Applications Seamlessly

The HPE Nonstop Compute NS5 X5 can scale out to match growing business demands, with the capacity to handle processing-intensive workloads. A single NS5 X5 node can have a maximum of 4 CPUs.

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]

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

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

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

Technical specifications	HPE Nonstop Compute NS5 X5
Processor type	Intel®
Processor family	Intel® Xeon® Bronze 3400 Series
Maximum memory	Designed for up to 512 GB in a four HPE Nonstop Compute CPU system, with 128 GB per CPU
Processor number	Minimum of 2 and up to 4 HPE Nonstop Compute CPUs with HPE Nonstop OS L-series (L25.02 or later)
Memory type	HPE DDR5 memory
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 100 drives per system. The drive enclosures connect to storage controllers referred to as HPE Nonstop Compute Entry Class Storage CLIMs. The NS5 X5 is designed for up to four Storage CLIMs.
Network controller	Designed for 4x10 GbE and 1x1 GbE ports per network controller. A network controller can be an HPE Nonstop Compute Entry Class IP or Telco CLIM. The NS5 X5 is designed for up to four IP or Telco CLIMs.
Expansion slots	Compute and I/O expansion is possible by the addition of HPE Nonstop CPUs and Entry Class 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 HPE website at https://hpe.com/support.

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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