Data sheet

HPE ProLiant Compute XD230

What's new

- 2x Intel® Xeon® 6 processors (6900P-Series,) up to 128 cores, 500W
- 1U chassis form factor
- 24 RDIMM slots per node with up to 6400MT/s memory speed, or 24 MRDIMM slots per node with up to 8800MT/s memory speed
- Up to 3 PCIe Gen5 x16 expansion slots, 2 OCP 3.0 and 2 M.2 with NS204i-u module option, with HW RAID
- HPE iLO management
- Cooling options: Air-cooled with closed-loop liquid cooling or direct liquid cooled

Overview

Are you looking for a flexible scale-out solution for your HPC workloads? The HPE ProLiant Compute XD230 is an advanced high-performance computing platform designed to deliver exceptional compute performance and flexibility for mainstream HPC applications. Delivered in a compact 1U form factor, it supports the latest Intel® Xeon® 6 processors and features a scalable architecture optimized for high-density HPC workloads. Enhanced memory bandwidth significantly boosts performance while HPE iLO management helps ensure robust security. The platform also incorporates advanced fabric options such as HPE Slingshot, along with cluster management through HPE Performance Cluster Manager (HPCM), effectively bringing supercomputing capabilities to smaller scales. Additionally, it offers choice in cooling with support for both air-cooled (with CLC) and liquid-cooled configurations.

Features

Exceptional Performance and Efficiency

The HPE ProLiant Compute XD230 features Intel® Xeon® 6 processors with P-cores delivering 2x higher HPC performance vs. 5th Gen Gen Intel Xeon processors. [1]

Offering the capability to scale up to 128 cores, 12 memory channels, and 96 PCIe lanes per socket, Intel® Xeon® 6 processors with P-cores can address diverse HPC application needs.

It reduces memory bandwidth bottlenecks with innovative Multiplexed Rank DIMMs (MRDIMM) delivering up to 8800 mega transfers per second (MT/s,) while lowering TCO by completing HPC jobs fast.

Supports optional direct liquid cooling that helps you meet escalating power requirements, increase performance and advance sustainability goals. This option leverages HPE's decades of expertise and market leadership in deploying the world's largest liquid-cooled IT environments.[2]

Purpose-Built for HPC Workloads

The HPE ProLiant Compute XD230 delivers a complete HPC solution from chassis to rack scale and supports a variety of HPC-optimized options from NVMe SSDs to ultra-fast memory suited to HPC requirements, to several types of PDU options, from managed to switchable, and higher amperage.

Expedite HPC cluster setup and software deployment with HPE Performance Cluster Manager. Which is a fully integrated system management software that gets complex HPC systems up-and-running quickly with automated setup from bare metal and keeps clusters healthy and operational.

Comprehensive portfolio of proven HPE Services to build, test, and deploy your HPC solution with ongoing support, all available as stand-alone or consumption-based services.

Superior Security and Flexibility

The HPE ProLiant Compute XD230 supports HPE iLO for seamless server management and built-in security innovation to protect against escalating security threats.

Silicon Root of Trust from Hewlett Packard Enterprise, HPE's fundamental approach to security, provides a Zero Trust architecture at the silicon level and helps ensure all server essential firmware is free from malware or compromised code.

Flexibility and agility with an optimized IT environment that lets you run the right workload at the right place, at the right time. Whether you want a solution on-premises, or deploy a hybrid model, we offer flexible consumption and deployment models to suit your requirements and goals.

HPE Financial Services allows you to turn aging infrastructure into capital in a secure, globally consistent and environmentally responsible way.

Technical specifications	HPE ProLiant Compute XD230
Processor type	Intel®
Processor family	6th Generation Intel® Xeon® Scalable processors
Processor core available	72 to 128 core
Processor speed	2.7 GHz, maximum depending on processor
Processor cache	480 - 504 MB L3
Memory type	DDR5 Standard Memory
Maximum memory	3.0 TB with 128 GB DDR5
Memory slots	24 DDR5 DIMM slots (12 per processor)
Expansion slots	CLC configuration: 2 FHHL or 3 LP PCIe 5.0 x16 slots + 2 OCP 3.0 DLC configuration: "1 LP + 1 FHHL" or 2 LP PCIe 5.0 x16 slots + 2 OCP 3.0
Form factor	1U
Drive supported	10 SFF NVMe or 20 EDSFF
Warranty	1-year parts

[1] Source: Intel Corporation. Test by Intel as of July 2024. Up to 2.5x higher HPCG performance and 1.73x perf/watt with Intel® Xeon® 6980P [MRDIMM] vs. Intel® Xeon® 8592+.

[2] https://top500.org/ "The top three supercomputers in the world are HPE-built 100% liquid cooled systems," TOP500 https://top500.org/, November 2024.

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

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