General-Purpose OCSP Server

NitroCompute R7260 X5

With the NitroCompute X5 server, you can deploy a single platform to address a wide range of enterprise workloads:

Compute-Intensive Applications
Examples: Big data, geological exploration, and research.

AI `, Inference, and Video/Visual Processing
Examples: Artificial intelligence and metaverse applications.

Dynamic Workloads
Examples: Databases, virtualization, private and public clouds.

High-Density Data Center Workloads
Examples: Workloads for medium-to-large enterprises and cloud service providers.

Database Servers
Handles database operations for large enterprises or high-concurrency applications.

Virtual Desktop Infrastructure (VDI)
Provides virtual desktop services for a large number of users, requiring high-performance server support.

Cloud Computing Environments
Delivers cloud service infrastructure to meet multi-user computing resource demands.

Video/Image Processing
Supports tasks such as video encoding, rendering, and streaming that require substantial computational resources.

Product Overview

The NitroCompute X5 server is built on up to two Intel® Xeon® 3rd Generation Scalable Processors, delivering up to 52% higher floating-point performance and 42% more cores. Combined with 8-channel 3200MT/s DDR4 memory technology, it provides users with up to 60% higher bandwidth. With 17 PCIe slots and support for up to 45 drive bays, the server offers flexible expansion capabilities. It features 96% power efficiency and operates within a standard temperature range of 5°C to 45°C, ensuring higher energy efficiency.

Key Features

Open and Converged Ecosystem Designed for an Intelligent Future	Flexible and Scalable Configuration Meeting Expansion Needs	Modular Installation and Deployment Easy and Fast Maintenance
Open ecosystem design based on OCSP specifications Service management powered by Open BMC	Up to 32 memory slots Up to 45 drive bays Up to 17 PCIe slots	Modular design for easy maintenance Quick assembly/disassembly and hot-swappable core components

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Product Specifications
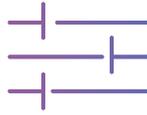
Category	Specifications
Processor	Supports up to two Intel® Xeon® 3rd Gen Scalable Processors or alternative processor series; single CPU supports up to 40 cores, max TDP 270W
Chipset	C621A
Memory	Up to 32 DDR4 DIMM slots, max speed 3200MT/s, supports RDIMM or LRDIMM
Storage Controller	Optional high-performance RAID controller, supports RAID 0/1/10/5/6/50/60
Storage Expansion	Supports up to 45 drives: • Up to 20 x 3.5" drives (12 front, 4 internal, 4 rear) • Up to 45 x 2.5" drives (25 front, 10 internal, 10 rear) • Up to 28 x NVMe U.2 drives (24 front, 4 rear) • Optional SATA/NVMe® M.2 module
PCIe Expansion	• Up to 17 PCIe slots: • Up to 15 standard PCIe slots (10 rear + 5 mid), including 6 x16 slots • Up to 2 OCP 3.0 slots
GPU Support	Supports up to 4 dual-width GPU cards (max 450W per card)
Management Software	Integrated BMC management chip (AST2600), supports IPMI 2.0, Redfish, SQL, KVM, virtual media, etc.
Networking	• 1 x Gbps dedicated management port • Supports 2 x OCP 3.0 NICs • Optional PCIe-based network adapters
I/O Interfaces	• Standard: 1 x RJ45 management port, 1 x rear VGA, 4 x USB ports (2 front, 2 rear) • Optional: Expansion card with 2 x rear USB ports, 1 x USB Type-C management port, 1 x RJ45 management port • Left ear: 2 x USB 2.0 ports (optional 2 x USB 3.0) • Right ear: Optional smart ear with 1 x VGA, 1 x management port, or 1 x Type-C management port
Security	Supports chassis intrusion detection; Intel PFR 3.0 and SGX 2.0 security technologies; TCM/TPM security module
Power Supply	Optional 550W/800W/1300W/1600W/2000W/2600W/2700W/3200W CRPS standard PSUs, supports 1+1 redundancy
Operating Temperature	5°C to 45°C (varies by configuration; refer to technical documentation)
Form Factor/Chassis Dimensions	• 2U standard chassis • 87mm (H) × 447.4mm (W) × 800mm (D) (excluding safety panels)t

*Specifications subject to customer requirements.