Lenovo Flex System x240 M5 Compute Node

Cost-effective power, security and scalability

Constant Challenges

As organizations face continued pressure to consolidate data center infrastructure, they also wrestle with the need to handle more compute-intensive workloads which are analyzing more data faster than ever before. With all these challenges to meet, there's never been a better time to choose the Lenovo Flex System x240 M5 Compute Node to work within your Lenovo Flex System.

Security, Reliability

The x240 M5 is designed to help:

- Provide power savings using improved thermal and cooling design and more efficient components
- Boost cloud performance with greater VM density and low latency flash storage
- Reduce unplanned downtime by delivering industry-leading uptime
- Safeguard enterprise data with built-in System x Trusted Platform Assurance to mitigate attacks against boot firmware and management controllers

Versatile Power

The 2-processor Flex System x240 M5 Compute Node delivers major advances in performance, capacity, management simplicity, and networking flexibility to help you keep operating costs down without sacrificing efficiency, reliability or security. For workloads that require a balance of memory, processor and I/O bandwidth, the variety of Flex System x240 M5 models gives you the flexibility to optimize each resource to adapt to meet your workload's needs.

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Next-Generation

The Flex System x240 M5 supports up to two Intel® Xeon® processors E5-2600 v3 series, available with as many as 18 cores, each running at up to 2133 MHz designed to deliver improved performance without sacrificing energy efficiency. This family of processors features up to 45 MB L3 cache per processor, integrated PCIe 3.0, Intel Turbo Boost Technology 2.0, Hyper-Threading Technology and two QuickPath interconnects.

Powerful Memory

Also, TruDDR4 Memory support requires only 1.2 V of power each, compared to 1.35 V and 1.5 V for previous modules. In fact, each x240 M5 will be able to support up to 1.5 TB of memory in 24 DIMM slots running at up to 2133 MHz. The TruDDR4 Memory portfolio includes RDIMMs with advanced error correction for reliability, performance and maximum memory capacity. In addition, TruDDR4 Memory will support memory performance that exceeds industry standards. The x240 M5 also offers versatile high-performance storage options such as dual 2.5-inch PCIe flash storage and mirrored SD card for hypervisor.

Networking Flexibility

To deliver the maximum choice of networking options, the x240 M5 allows you to select and use the two included mezzanine card slots to meet your specific connectivity requirements.

You can choose from optional Gigabit Ethernet (GbE), 10 GbE, 40 GbE, Fibre Channel over Ethernet or iSCSI cards to network your way.

Systems Management

The Flex System x240 M5 Compute Node is now supported by Lenovo XClarity, a new centralized systems management solution that helps administrators deliver infrastructure faster and with less effort. Lenovo XClarity integrates easily with Flex System, providing automated discovery, monitoring, firmware updates, configuration management, and bare metal deployment of operating systems and hypervisors across multiple systems.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

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Specifications

Form Factor	Lenovo Flex System standard node
Processor	2 Intel® Xeon® processors E5-2600 v3 series, up to 36 cores per node
Cache Per Processor	Up to 45 MB, 2.5 MB per core
Memory	24 DDR4 LP, 1.5 TB maximum with 64 GB LRDIMM
Internal Storage	2 x hot-swap 2.5-inch (SAS/SATA/SSD/PCIe)
Internal RAID	Standard LSI 3004, RAID-0/-1, optional ServeRAID M5210/RAID-0, -1, -5 with LSI3108 Controller, or ServerRAID M5215 with 2 GB Flash Enablement
Internal SD Flash/USB	2 x dual-slotted SD card +1 x Front Access USB Key
Network Connectivity	• 2 x 10 GbE (standard on select models) • 2-port, 4-port and 6-port x 10 GbE adapters (optional) • 2-port and 4-port x 8/16 Gb Fibre Channel adapters (optional) • 2 port x QDR/FDR InfiniBand adapters (optional)
Management	IMM 2.1, RTMM KVM Dongle
Operating Systems	Microsoft Windows Server, SUSE, RedHat Enterprise Linux, VMware
RAS Features	Chassis redundant/hot-plug power and cooling Front panel and FRU/CRU LEDs
Warranty	3-year customer replaceable unit and onsite limited warranty, next business day 9x5, service upgrades available

Options

16 GB TruDDR4 Memory (2Rx4, 1.2V) PC4-17000 CL15 2133 MHz LP RDIMM	P3600 1.6 TB NVMe 2.5-inch G3HS Enterprise Value PCIe SSD	1.6 TB SAS 2.5-inch MLC G3HS Enterprise SSD
95Y4821	90Y3233	00AJ222
Add more TruDDR4 Memory to help improve the performance of your workloads	Low latency, high-performance, dense flash to accelerate applications	High-performance, dense flash to accelerate applications

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For More Information

To learn more about the Lenovo Flex System x240 M5 Compute Node, contact your Lenovo Business Partner or visit
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