

# LENOVO FLEX SYSTEM x240 M5 COMPUTE NODE

Bringing security, efficiency, and reliability features to handle business-critical workloads



## 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-socket 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 price/performance ratio target.



## 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 socket, 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. Depending on the model and number of processor sockets populated, you can choose from optional Gigabit Ethernet (GbE), 10 GbE, 40 GbE, Fibre Channel over Ethernet and 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. This solution integrates easily into Lenovo System x M5 and X6 rack servers and the Flex System, providing automated discovery, monitoring, firmware updates, configuration management, and bare metal deployment of operating systems and hypervisors across multiple systems.



## SPECIFICATIONS

<b>FORM FACTOR</b>	Lenovo Flex System standard node
<b>PROCESSOR</b>	2 Intel Xeon processors E5-2600 v3 series, up to 36 cores per node
<b>CACHE PER SOCKET</b>	Up to 45 MB, 2.5 MB per core
<b>MEMORY</b>	24 DDR4 LP, 1.5 TB maximum with 64 GB LRDIMM
<b>INTERNAL STORAGE</b>	2 x hot-swap 2.5-inch (SAS/SATA/SSD/PCIe)
<b>INTERNAL RAID</b>	LSI 3004, RAID-0/-1, optional ServeRAID™ M5210/RAID-0, -1, -5 with LSI3108 Controller
<b>INTERNAL SD FLASH/USB</b>	2 x dual-slotted SD card +1 x Front Access USB Key
<b>NETWORK CONNECTIVITY</b>	2 x 10 Gb (standard) 2-port, 4-port and 6-port x 10 Gb adapters (optional) 2-port and 4-port x 8/16 Gb Fibre Channel adapters (optional) 2 port x QDR/FDR InfiniBand adapters (optional)
<b>MANAGEMENT</b>	IMM 2.1, RTMM KVM Dongle
<b>OPERATING SYSTEMS</b>	Microsoft Windows Server, SUSE, RedHat Enterprise Linux, VMware
<b>RAS FEATURES</b>	Chassis redundant/hot-plug power and cooling Front panel and FRU/CRU LEDs
<b>WARRANTY</b>	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 2133MHz LP RDIMM  
95Y4821

Add more TruDDR4 Memory to help  
improve the performance of your  
workloads

P3600 1.6 TB NVMe 2.5-inch G3HS  
Enterprise Value PCIe SSD  
90Y3233

Low latency, high-performance, dense  
flash to accelerate applications

1.6 TB SAS 2.5-inch MLC G3HS  
Enterprise SSD  
00AJ222

High-performance, dense flash to  
accelerate applications



## 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.

## FOR MORE INFORMATION

About Lenovo, the Flex System x240 M5 Compute Node, or to contact your Lenovo representative or Business Partner, visit [lenovo.com/servers](http://lenovo.com/servers)

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