

Flex System x440 Compute Node



To meet today's complex and ever-changing business demands, the Flex System™ x440 compute node is designed for mainstream virtualization, database deployments, and business process memory-intensive environments. The Flex System x440 compute node is a price-performance optimized 4-socket compute node with flexible I/O options to help you match system capabilities to workloads. With a dense design, the Flex System x440 compute node can help reduce floor space used, and lower data center power and cooling costs.

Ideal platform for many workloads

The Flex System x440 high-density, four-socket compute node is performance-tuned and features compute, memory and I/O capacity to meet your needs. It is designed to deliver a combination of performance, built-in capabilities, and cost-effectiveness, featuring automated power management with onboard sensors to give you more control over power and thermal levels across the system. Combined with memory capacity up to 1.5 TB, the Flex System x440 compute node is designed to help you get the most out of your systems.

Virtual fabric networking enables breakthrough flexibility

With virtual fabric you can take advantage of up to 64 virtual network adapters while making use of multiple protocols, including Ethernet, Fibre Channel over Ethernet and iSCSI.

The system also allows you to enable features on demand for a more flexible I/O solution. Virtual fabric can require up to 75 percent fewer network adapters, cables and upstream switch ports to help control costs.¹ You also get significantly simpler management with reduced cabling and fewer components to manage.

Flexible storage improves the agility of your business

Built-in storage is available through two 2.5-inch hot swap hard drives or solid state drives. Available optional features include support for RAID-0, -1, -5, -6, -10, and -50 fully backed by cache and a high-density application acceleration solution with Flex System Flash. These features allow you to tailor internal storage to match your specific capacity, performance, and reliability needs and support distributed database applications without sacrificing system density.

Why System x

System x 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. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.



Specifications

Processor	4/4, Intel Xeon E5-4600 v2 Series Processor
Level 2 (L2) cache	256 KB per core
Level 3 (L3) cache	4C – 10 MB, 6C – 15 MB, 8C – 20 MB, 10C – 25 MB, 12C – 30 MB
Chipset	Intel C600
Form factor	Flex System™ double-wide node
Memory	48 DDR3/DDR3L LP, 1.5 TB (32 GB LRDIMMs)
Internal Storage	2 x hot-swap 2.5-inch (SAS/SATA/SSD)
Internal RAID	LSI 2004, RAID-0, -1 Optional ServeRAID™ M5115/RAID-0, -1, -5, -6, -10, -50
Internal USB	2 x Standard USB Flash Key + 1 x Front Access USB Key
Chassis support	Flex System Enterprise Chassis
I/O Expansion	4 x Mezzanine Cards (x16 + x8 PCI Express 3.0)
Network Interface	1/10 Gb Ethernet, Fibre Channel over Ethernet, iSCSI, 4/8/16 GB Fibre Channel
Power management	AEM, Active Energy Management
Warranty	3 year
Management	iMM V2, RTMM KVM Dongle, FlexSystem Manager™, IBM Systems Director
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

Options

16 GB (1x16 GB, 2Rx4, 1.35 V) PC3L-12800 CL11 ECC DDR3 1600 MHz LP RDIMM 46W0672 Add more memory to help improve the performance of all your workloads	1.6 TB SAS 2.5" MLC HS Enterprise SSD 49Y6195 High-performance, dense flash to accelerate applications	Emulex 8Gb FC Dual-port HBA 42D0494 Market leading host bus attachment at 8Gb, the industry dominant interface speed
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For more information

To learn more about the Flex System x440 compute node, contact your Lenovo Business Partner or visit lenovo.com/thinkserver

¹ Virtual Fabric offers up to eight ports using a single 10 Gb network adapter and pair of Virtual Fabric switch modules. Traditional network setup require up to four 2-port network adapters and eight switches to offer similar functionality

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IBM x86 products are now products of Lenovo in the U.S. and other countries. Learn more at ibm.com/lenovo-acquisition

