LENOVO FLEX SYSTEM x440 COMPUTE NODE

DENSE DESIGN

To meet today's ever-changing business demands, the Lenovo® 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 equipped with powerful Intel® Xeon® processors.

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.

ENABLES 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]

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FLEXIBLE STORAGE

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.

SYSTEMS MANAGEMENT

The Flex System x440 Compute Node now features 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.

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

PROCESSOR	4/4, Intel® Xeon® processor E5-4600 v2 series
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
WARRANTY	3 year
MANAGEMENT	iMM V2, RTMM KVM Dongle
SYSTEMS MANAGEMENT	Lenovo XClarity™ delivers a centralized systems management solution that helps administrators deliver infrastructure faster and with less effort.
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

[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

OPTIONS

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

FOR MORE INFORMATION

About Lenovo, the Flex System x440 compute node, or to contact your Lenovo representative or Business Partner, visit **lenovo.com**/servers

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