PureSystems

IBM Flex System x240 Compute Node

Highlights

- Optimized for virtualization, performance and highly scalable networking
- Embedded IBM Virtual Fabric allows breakthrough I/O flexibility
- Designed for simplified deployment and management

To meet today's complex and ever-changing business demands, the IBM® Flex System™ x240 compute node, an element of the IBM PureFlex™ System, is optimized for virtualization, performance and highly scalable I/O designed to run a wide variety of workloads. The Flex System x240 is available on either your PureFlex System or IBM Flex System solution.

Get the most out of your compute environment

The Flex System x240 compute node delivers maximum performance—up to 50 percent performance boost over previous generation servers.[1] This enables businesses to get more out of their compute environment for a broad set of workloads. Features such as automated power management with onboard sensors give you more control over power and thermal levels across the system. These capabilities, combined with memory capacity up to 768 GB, help you get the most out of your compute environment.

Virtual fabric networking enables breakthrough flexibility

With integrated virtual fabric you can take advantage of up to 32 ports of virtual networking capabilities. With 10 Gigabit Ethernet (GbE) onboard, you get 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 networking can reduce up to 75 percent adapters, cables and upstream switch ports to help control costs.[2] In addition, 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 with 2.5-inch hot swap hard drives or solid state drives. Available optional features include support for RAID-0, -1, -5, -6, -10, -50 fully backed by cache and a high-density application acceleration solution with IBM Flex System Flash. These features allow you to tailor internal storage to match your specific capacity, performance, and reliability needs and support applications such as distributed database without sacrificing system density.

IBM Flex System x240 Compute Node at a glance	
Processor	2/2, Intel Xeon E5-2600 v2 Series Processor
Level 2 (L2) cache	256 KB per core
Level 3 (L3) cache	4 cores - 6 cores –15 MB, 6 cores - 10 cores – 25 MB, 12 cores – 30 MB
Chipset	Intel C600
Form factor	Flex System standard node
Memory	24 DDR3/DDR3L LP, 768 GB maximum with 32 GB LRDIMM
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 with LSI SAS2208 Controller
Internal USB	2 x Standard USB Flash Key + 1 x Front Access USB Key
Ethernet	IBM Virtual Fabric 2 x 10 GbE LOM
Chassis support	Flex System Enterprise Chassis
I/O Expansion	2 x Mezzanine Cards (x16 + x8 PCI Express 3.0) 1 x PCIe Expansion Node Connector (x16 PCI Express 3.0)
Power management	AEM, Active Energy Management
Warranty	3-year customer replaceable unit and onsite limited warranty, next business day 9x5, service upgrades available
Management	IMM 2, 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

For more information

To learn more about the IBM Flex System x240 compute nodes, please contact your IBM representative or IBM Business Partner, or visit the following website: **ibm.com**/pureflex/

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Produced in the United States of America
January 2014

[1] Comparing IBM Flex System x240 (Intel Xeon E5-2697 v2, 2.7 GHz) to previous generation IBM Flex System x240 (Intel Xeon E5-2690).

[2] 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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WZD12368-USEN-04