



IBM Flex System p270 Compute Node

Highlights

- IBM® POWER7+™ technology brings faster frequencies, larger L3 cache sizes and more processor cores which helps improve performance by over 20 percent on most workloads and with hardware assisted memory compression helps reduce memory requirements without penalizing performance
 - Easily handles virtualized consolidation of multiple applications and business workloads, is designed for secure application availability and delivers reduced requirement for space, cooling and software costs
 - IBM provides the integration and configuration expertise up front so you can get your system deployed faster and get faster time to value
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To meet today's complex and ever-changing business demands, you need a solid foundation of compute, storage, networking and software resources that is simple to deploy and can quickly and automatically adapt to changing conditions. IBM Flex System™ offers a broad range of x86 and POWER® compute nodes in an innovative chassis design that goes beyond blade servers with advanced networking and system management, to support extraordinary simplicity, flexibility and upgrade-ability. The PureFlex System is an integrated infrastructure solution available in two configurations, with x86 or POWER processor-based compute nodes that can be further customized with additional options to meet your precise IT infrastructure needs.

The IBM Flex System p270 Compute Node is completely new and designed to leverage the leadership performance of the POWER7+ processor. The resulting combination of secure, reliable computing and energy-efficient virtualization make it an ideal solution for virtualized application consolidation and workload environments that need tremendous configuration flexibility to meet demanding capacity and growth requirements. The node supports IBM AIX®, IBM i or Linux operating environments and is designed to run a wide variety of workloads in your IBM Flex System and PureFlex System solution.



The Flex System p270 Compute Node is a two-socket server that supports up to 16 POWER7+ cores in a flexible standard-width form factor. The p270 offers large memory capacity, outstanding performance of the POWER7+ processor, PowerVM® and workload-optimizing capabilities to enable companies to get the most out of their systems by increasing utilization and performance while helping to reduce infrastructure and energy costs and is an **ideal system choice for mid-market and large enterprise** clients who need a high-performance, dense and energy-efficient server ideal for running multiple application and infrastructure workloads in a virtualized environment.

Improve the agility of your business

Built-in storage capabilities on the compute node includes up to two 2.5-inch support small form factor hard drives or up to two 1.8-inch solid state drives. The nodes can also access storage attached through the network and managed with IBM Flex System Manager™. Networking options include 1 Gb or 10 Gb Ethernet expansion, 8 Gb and 16 Gb Fibre Channel expansion, and FCoE for connection to external storage and networks. These features allow you to tailor your environment to match your specific capacity, performance, cost, and reliability needs to support configurations with Dual VIOS and also support virtualized storage for cloud computing applications.



Flex System p270

Easy systems management

With Flex System Manager, you get advanced management capabilities for the compute node and your full IBM PureFlex™ System. Flex System Manager is designed to simplify and optimize your management of physical and virtual resources and the workloads that you run on them.

IBM Flex System p270 at a glance

Form factor	Flex System standard node
Processor cores	24 cores, POWER7+, 64-bit processors with VSX, Memory Expansion acceleration and Encryption acceleration Configuration Options: 12 x 3.1 GHz POWER7+ processor cores or 12 x 3.4 GHz POWER7+ processor cores
Level 2 (L2) cache	256 KB per processor core
Level 3 (L3) cache	10 MB per processor core
Memory (min/max)	8 GB up to 512 GB, 16 DIMM slots, ECC IBM Chipkill DDR3 SDRAM running at 1066 MHz plus Active Memory Expansion with hardware assist
Internal disk storage	Up to two 2.5-inch Hard Disks or two 1.8-inch Solid State Drives
Networking/Expansion	Two PCIe Expansion Slots One ETE adapter card slot (provides dedicated Dual VIOS on internal drives with optional adapter)
Systems management	Integrated systems management processor, light path diagnostics, Predictive Failure Analysis, Cluster Systems Management (CSM), Serial Over LAN, IPMI compliant
RAS features	Chassis redundant/hot-plug power and cooling Front Panel and FRU/CRU LEDs Concurrent code update and Processor deallocation Compute node hot plug and Dual VIOS support Dual AC Power Supply Auto reboot on power loss Internal and chassis-external temperature monitors System management alerts IBM Chipkill ECC detection and correction
Operating systems	AIX 6.1, AIX 7.1 IBM i 6.1, IBM i 7.1 RHEL 6.4, SLES11 SP2
Energy management	EnergyScale™ energy management

For more information

To learn more about the Flex System p270 Compute Node, please contact your IBM representative or IBM Business Partner, or visit the following website: ibm.com/flex/



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Produced in the United States of America
October 2013

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