



Dell PowerEdge R820

A high-performance 4-socket, 2U rack server, the Dell™ PowerEdge™ R820 is designed for dense virtualization and scalable database applications.

Designed to excel at running a wide range of applications and virtualization environments for both mid-size and large enterprises, the Dell PowerEdge R820 rack server is a compute-intensive performance platform with highly scalable memory (up to 1.5TB) and impressive I/O capabilities to match. With four Intel® Xeon® E5 processors, and the ability to support dual RAID controllers, the R820 can readily handle very demanding, mission critical workloads, like Enterprise Resource Planning (ERP), data warehousing, e-commerce, Virtual Desktop Infrastructure (VDI), databases, and data node High Performance Computing (HPC.)

Manage data overload

Keep pace with the explosion of data in the virtual age with the flexible, powerful I/O and storage capabilities of the R820. Up to 16 internal hard drives and integrated PCIe Gen3-enabled expansion slots greatly increase your capacity, while optional hot-plug, front-access PCIe SSDs (up to 4) enable performance-enhancing, in-box storage tiering. Moreover, Dell Select Network Adapters, our flexible embedded NIC technology, let you choose the right network fabric to match your needs without using up a valuable PCIe slot.

Accelerate the solution

Boost the performance of your HPC or 2D VDI environment by combining the PowerEdge R820's memory density with an optional Graphics Processing Unit (GPU) accelerator. Choose from a range of GPU options for greater assisted performance.

Virtualize more with the R820

Maximize your data center's application capacity by expanding your virtual environment using the PowerEdge R820's large memory footprint, I/O options, flexible fabric choices, and up to 32 cores in a four-processor configuration. Choose an industry-leading hypervisor and take advantage of our system management capability to manage both physical and virtual assets. The R820 can also help maximize your virtual machines' uptime using

redundant failsafe hypervisors on its Internal Dual SD Module. Finally, Dell's Virtual Integrated System™ (VIS) solution lets you enable complex virtualization environments in just a few mouse clicks.

The PowerEdge server line

The PowerEdge family is engineered with the right combination of features and performance scalability to handle tough workloads for both large and small data center environments.

The Dell OpenManage™ systems management portfolio includes Dell Remote Access Controller (iDRAC) with Lifecycle Controller. This embedded feature helps IT Administrators manage Dell servers in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent. OpenManage integrates and connects to leading third-party systems management solutions you may already own, so you can maintain your single point of control and capitalize on your existing investment. OpenManage simplifies the lifecycle of deploying, updating, monitoring and maintaining your Dell PowerEdge servers.

PowerEdge R820

- Up to 48 DIMMs
- PCIe Gen3-enabled expansion slots
- Choice of network fabric technologies
- Optional hot-plug, front-access PCIe SSDs
- Support for internal GPU accelerators