



Highlights

- A high-performance, open standards-based system for cloud deployment
 - Runs big data and analytics, Java™, open source and Linux® apps on a platform optimised for data and Linux
 - Enables your apps and enterprise data to be always available on a robust system designed for business-critical workloads
 - Realise low cost of acquisition and the ability to achieve superb economics
 - Gain the performance and capabilities of IBM® POWER8 combined with the cost advantages of industry standardisation.
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IBM Power System S822LC commercial computing

Open standards-based system designed to simplify and optimise your data centre

It's no secret that disruptive trends in technology are rapidly remaking how organisations do business. Technology is advancing so rapidly, in fact, that dynamic communities of collaboration are forming just to harness it all. The growing torrent of data from both within and outside your organisation, from mobile employees and from customers and prospects, presents an unprecedented opportunity to gain valuable insights and apply these insights at the best point of impact to improve your business results.

Making the transition to advanced capabilities requires an integrated infrastructure that supports your key IT initiatives. Our investments to bring new optimised solutions in the area of advanced analytics, cloud and mobile access are designed to simplify and accelerate your ability to seize today's market opportunities.

The next generation of IBM Power Systems, with POWER8 technology, is the first family of systems built with innovations that transform the power of big data and analytics, mobile and cloud into competitive



advantages in ways never before possible. Our new scale-out systems provide powerful, scalable and economical means to put data to work for you. The IBM Power System S822LC offers:

- Superb throughput and performance for high value Linux workloads, such as LAMP,¹ big data and analytics or industry applications
- Low acquisition cost through system optimisation (industry standard memory, selected configurations, industry standard warranty)
- Solutions incorporating OpenPOWER Foundation community innovation that are built to industry standards
- Modular design optimised to scale from single racks to hundreds of racks for large-scale clusters and scale-out deployments built on a 2 sockets, 2 rack units platform with up to 20 cores of POWER8.

The waitless world demands open innovation

Power Systems are designed for big data and deliver the performance and throughput of POWER8 combined with the cost optimisation of industry standardisation – all without the wait.

Designed for the demands of big data and analytics

Businesses are amassing a wealth of data and Power Systems can store it, secure it and – most importantly – extract actionable insight from it in a timeframe that matters. Power Systems are designed for big data. From predictive analytics and data warehouses to unstructured big data processing and



cognitive IBM Watson solutions, Power servers are optimised for the compute-intensive performance demands of database and analytics applications and can flexibly scale to support the demands of rapidly growing data.

IBM Power System S822LC

IBM Power System S822LC is designed to deliver superb performance and throughput for high-value Linux workloads, such as industry applications, big data and LAMP. With greater reliability, serviceability and availability than competitive platforms, the Power System S822LC incorporates OpenPOWER Foundation community innovation for clients that want the advantages of running their big data, Java, open source and industry applications on a platform.

IBM Systems
Data Sheet

Power System S822LC at a glance

| | |
|--|---|
| System configurations | Model 8335-GCA |
| Processor and Memory | |
| Microprocessors | Two 8-core 3.32 GHz POWER8 processor cards or two 10-core 2.92 GHz POWER8 processor cards |
| Level 2 (L2) cache | 512 Kilobyte (KB) L2 cache per core |
| Level 3 (L3) cache | 8 Megabyte (MB) L3 cache per core |
| Level 4 (L4) cache | Up to 64 MB per socket |
| Memory Min/Max | 4 Gigabyte (GB), 8 GB, 16 GB and 32 GB 1333 Megahertz (MHz) Double Data Rate-3 (DDR3) module, 32 GB to 1 Terabyte (TB) |
| Processor-to-memory bandwidth | 115 GB/sec per socket, 230 GB/sec per system (Max sustained memory bandwidth to L4 cache from SCM) |
| Storage and input/output (I/O) | |
| Standard backplane | 2 Small Form Factor (SFF) bays for Hard Disk Drive (HDD) or Solid-State Disk (SSD) |
| Media bays | N/A |
| RAID option | Hardware RAID comes from integrated Peripheral Component Interconnect Express (PCIe) adapter |
| Adapter slots | Five PCIe Gen3 slots: Three x16 plus Two x8 PCIe Gen3 Up to Two NVIDIA GPUs option available |
| I/O Bandwidth | 64 GBps |
| Power, RAS, system software and physical characteristics and warranty | |
| Power supply | 200 V to 240 V |
| RAS features | Processor instruction retry Selective dynamic firmware updates Chip kill memory ECC L2 cache, L3 cache Service processor with fault monitoring Hot-swappable disk bays Hot-plug and redundant power supplies and cooling fans (no power redundancy with GPU(s) installed) |
| Operating systems* | Linux on POWER |
| System dimensions | 441.5 W x 86 H x 822 D mm |
| Warranty | 3 year limited warranty; Customer Replaceable Unit (CRU) for all other units (varies by country), next business day 9am to 5pm (excluding holidays), warranty service upgrades and maintenance are available. |

Why IBM?

IBM is honoured to be recognised by readers of the Linux Journal as the winner of the 'Best Linux Server Vendor' category in the 2013 Readers' Choice Awards – for the third year in a row. This recognition demonstrates the value of IBM's continued commitment to leading-edge collaboration and revolutionary technology.

Recently, IBM announced a new USD 3 billion research and development investment to create the next generation of chip technologies that will fuel the systems required for cloud, big data and cognitive computing. More specifically, these new materials include carbon nanotubes, graphene and nanophotonics to create system features at 7 nanometres and beyond.

For more information

To learn more about the IBM Power Systems, please contact your IBM marketing representative or IBM Business Partner, or visit the following website: ibm.com/marketplace/cloud/commercial-computing/us/en-us

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* See facts and features document for detailed OS level support.

¹ Linux, Apache, MySQL and PHP