



---

## Highlights

- *Rapid insights*: Leverage POWER9™ in LC922 for industry leading speed of insights to crush the data-rich applications in the AI era
  - Superior data movement: LC922 is the industry's first general purpose server designed with PCIe Gen4 technology, delivering 2x the aggregate bandwidth as compared to PCIe Gen3
  - Taming data: One server to compute and contain the exponentially increasing data growth with up to 120 TB of data storage with hybrid options including HDD, SSD and NVMe
- 

# IBM Power System LC922 – Designed to crush big data workloads

*Performance and cost optimized storage rich server  
designed to meet the needs for the AI Era*

The AI Era is driving Linux workloads that have extensive data storage and throughput requirements such as SPARK, open source databases and data lakes. LC922 enhances the LC product line's open heritage and cost optimization with the new P9 processor which delivers the compute and scaling capability needed to meet these challenges. Additionally, it offers superior flexibility with more concurrent users on a single server compared to x86 alternatives. Simply put, LC922 helps companies gain new business insights and unlock competitive advantages needed to win in the AI era.

The Power LC922 model offers:

- 2 sockets, 2U form factor
- Up to 44 cores
- 2 TB of memory
- Six PCIe slots Gen4 slots
- Up to 120TB storage (HDD)



**Systems Hardware**  
**Data Sheet**

---

**Power System LC922 at a glance**

---

**System configurations Model 9006-22P**

Microprocessors	1x or 2x POWER9 CPUs, 16, 20, 22-cores
Level 2 (L2) cache	512 KB per core
Level 3 (L3) cache	120 MB per chip
RAM (memory)	Up to 2 TB, from 16x DDR4 2667 IS DIMMs
Internal disk storage	Integrated MicroSemi PM8069 SAS/SATA 16-port Internal Storage Controller PCIe3.0 x8 with RAID 0, 1, 5, and 10 support (no write cache)
Processor-to-memory bandwidth	170 GB/s peak memory BW per system in 2S system with 8x 2R RDIMMs single dropp and running at 2667 Mb/s (136 GB/s peak memory BW with all 16x RDIMMs populated, running 2133 Mb/s)
L2 to L3 cache bandwidth	
Internal disk bays	12x LFF/SFF bays for SAS/SATA HDDs or SSDs and 4x available for NVMe gen3 in front (Optional) 2x SFF SAS/SATA drive bays in rear.
Media bays	n/a
Adapter slots	PCIe slots <ul style="list-style-type: none"> <li>• Two PCIe G4 x16 FHFL slots, CAPI 2.0 enabled (Support GPU cards)</li> <li>• Three PCIe G4 x8 FHFL slots, one CAPI 2.0 enabled (all physically x16)</li> <li>• One PCIe G4 x8 LP slot</li> </ul>

**Systems Hardware**  
**Data Sheet**

---

**Power System LC922 at a glance**

---

**Standard features**

I/O ports	<ul style="list-style-type: none"><li>• 2x rear USB 3.0 ports</li><li>• Integrated Intel XL710 Quad Port 10GBase-T PCIe3.0 x8 UIO built-in LAN (one shared management port)</li><li>• Dedicated 1G IPMI port</li><li>• Rear VGA port</li></ul>
Connectivity support (optional)	
POWER Hypervisor™	N/A
Advanced POWER Virtualization	N/A
RAS features	<ul style="list-style-type: none"><li>• Concurrent Maintenance disks</li><li>• Redundant Hot plug Power</li></ul>
Operating systems	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux (RHEL) 7.5 little endian (LE) (POWER9), or later</li><li>• Ubuntu Server 18.04 LTS</li></ul>
Power requirements	Operating voltage: 1600 Watt @ 220 V AC, 1000 Watt @ 110 V AC
System dimensions	<ul style="list-style-type: none"><li>• Width: 441.5 mm (17.4 in.)</li><li>• Depth: 822 mm (32.4 in.)</li><li>• Height: 89 mm (3.5 in.)</li><li>• Weight: 17.69 kg (39 lb)</li></ul>
Warranty	3-year limited warranty, CRU (customer replaceable unit) for all other units (varies by country) next business day 9am to 5pm (excluding holidays), warranty service upgrades and maintenance are available

## Why IBM?

For clients committed to Linux and open source applications and infrastructure, IBM® Power Systems™ Linux based two-socket servers provide the ideal foundation for private and public cloud infrastructure. The new Power System LC922 server, based on POWER9 processors, delivers superior throughput for Linux workloads and provides superior economics for scale-out deployments.

## For more information

To learn more about the Power System LC922 please contact your IBM representative or IBM Business Partner, or visit the following website:

[ibm.com/us-en/marketplace/power-system-lc921-and-lc922](http://ibm.com/us-en/marketplace/power-system-lc921-and-lc922)

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition.

For more information, visit: [ibm.com/financing](http://ibm.com/financing)



---

© Copyright IBM Corporation 2018

IBM Systems  
New Orchard Road  
Armonk, NY 10504

Produced in the United States of America  
May 2018

IBM, the IBM logo, ibm.com, IBM Power Systems, and POWER are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at “Copyright and trademark information” at [ibm.com/legal/copytrade.shtml](http://ibm.com/legal/copytrade.shtml)

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

All client examples cited or described are presented as illustrations of the manner in which some clients have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics will vary depending on individual client configurations and conditions. Contact IBM to see what we can do for you.

It is the user's responsibility to evaluate and verify the operation of any other products or programs with IBM products and programs.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED “AS IS” WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

Actual available storage capacity may be reported for both uncompressed and compressed data and will vary and may be less than stated.



Please Recycle