# 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*

## 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

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)

## 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<br>• Two PCIe G4 x16 FHFL slots, CAPI 2.0 enabled (Support GPU cards)<br>• Three PCIe G4 x8 FHFL slots, one CAPI 2.0 enabled (all physically x16)<br>• One PCIe G4 x8 LP slot |

## Power System LC922 at a glance

### Standard features

| | |
|---|---|
| I/O ports | • 2x rear USB 3.0 ports<br>• Integrated Intel XL710 Quad Port 10GBase-T PCIe3.0 x8 UIO built-in LAN (one shared management port)<br>• Dedicated 1G IPMI port<br>• Rear VGA port |
| Connectivity support (optional) | |
| POWER Hypervisor™ | N/A |
| Advanced POWER Virtualization | N/A |
| RAS features | • Concurrent Maintenance disks<br>• Redundant Hot plug Power |
| Operating systems | • Red Hat Enterprise Linux (RHEL) 7.5 little endian (LE) (POWER9), or later<br>• Ubuntu Server 18.04 LTS |
| Power requirements | Operating voltage:  1600 Watt @ 220 V AC, 1000 Watt @ 110 V AC |
| System dimensions | • Width: 441.5 mm (17.4 in.)<br>• Depth: 822 mm (32.4 in.)<br>• Height: 89 mm (3.5 in.)<br>• Weight: 17.69 kg (39 lb) |
| 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

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