IBM

IBM Power System LC922 – Designed to crush big data and Machine Learning workloads

Highlights

- Rapid insights: POWER9 delivers speedups for data-rich applications
- 2x I/O vs x86: Industry's first general purpose server with PCIe Gen4
- Storage: Up to 120 TB of storage with hybrid HDD, SSD and NVMe options

Performance and cost optimized storage rich server designed for big data and machine learning

Modern analytics and enterprise AI are increasingly driving Linux workloads that have extensive data storage and throughput requirements such as SPARK, open source databases, data lakes, and machine learning.

The IBM Power System LC922 enhances the LC product line's open heritage and cost optimization with the new IBM POWER9 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, The IBM Power System LC922 helps companies gain new business insights and unlock competitive advantages needed to win in the AI era.

The The IBM Power System LC922 offers:

- 2 sockets, 2U form factor

- Up to 44 cores

- 1 TB of memory

- Six PCIe Gen4 slots

- Up to 120TB storage (HDD)

The IBM 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 1 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)
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.
Adapter slots	PCIe slots • Two PCIe G4 x16 FHFL slots, CAPI 2.0 enabled (Support GPU cards) • Three PCIe G4 x8 FHFL slots, one CAPI 2.0 enabled (all physically x16) • One PCIe G4 x8 LP slot
Standard features	
I/O ports	• 2x rear USB 3.0 ports • Integrated Intel XL710 Quad Port 10GBase-T PCIe3.0 x8 UIO built-in LAN (one shared management port) • Dedicated 1G IPMI port • Rear VGA port
RAS features	• Concurrent Maintenance disks • Redundant Hot plug Power
Operating systems	• Red Hat Enterprise Linux (RHEL) 7.5 little endian (LE) (POWER9), or later • 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.) • Depth: 822 mm (32.4 in.) • Height: 89 mm (3.5 in.) • 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 IBM Power System LC922 server, based on POWER9 processors, delivers superior throughput for Linux workloads and provides superior economics for scale-out deployments.

Next steps

→ IBM Power System LC922 Marketplace Page

For more information

To learn more about the IBM 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

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